284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

METALS

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : Q1984

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1984

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q1984-01	OU4-PCS-TC-33-050725
Q1984-02	OU4-PCS-TC-33-050725
Q1984-03	OU4-PCS-TC-34-050725
Q1984-04	OU4-PCS-TC-34-050725
Q1984-05	OU4-PCS-TC-35-050725
Q1984-06	OU4-PCS-TC-35-050725
Q1984-07	OU4-TS-24-050725
Q1984-08	OU4-TS-24-050725
Q1984-09	OU4-TS-25-050725
Q1984-10	OU4-TS-25-050725
Q1984-11	OU4-TS-26-050725
Q1984-12	OU4-TS-26-050725
Q1984-13	OU4-TS-27-050725
Q1984-14	OU4-TS-27-050725
Q1984-15	OU4-TS-28-050725
Q1984-16	OU4-TS-28-050725
Q1984-19	OU4-TB01-050725

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 1:50 pm, May 23, 2025

Date: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q1984
Test Name: SPLP Mercury,SPLP MetalGroup3

A. Number of Samples and Date of Receipt:
17 Solid samples were received on 05/08/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3, VOCMS Group1 and VOCMS Group3. This data package contains results for SPLP Mercury, SPLP MetalGroup3.

C. Analytical Techniques:
The analysis of SPLP MetalGroup3 was based on method 6020B, digestion based on method 3010 (Water). The analysis of SPLP Mercury was based on method 7470A and digestion was based on method 7470 (Water).

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 (OU4-TS-28-050725MS) analysis met criteria for all samples except for Arsenic and Silver due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (OU4-TS-28-050725MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate(OU4-TS-28-050725MSD) analysis met criteria for all samples except for Arsenic and Silver due to Chemical Interference during Digestion Process.
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:
The Post Digest Spike (OU4-TS-28-050725A) analysis met criteria for all samples except for Arsenic and Silver due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis, matrix has suppression effect during addition of spike.
Q1984 SPLP all samples diluted 5X Straight due to SPLP fluid which cannot be injected as is without dilution to avoid damage to detector of instrument.

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.

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 1:50 pm, May 23, 2025

Alliance TECHNICAL GROUP
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: Q1984 MATRIX: Water

METHOD: 6020B,7470A

		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 (OU4-TS-28-050725MS) analysis met criteria for all samples except for Arsenic and Silver due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (OU4-TS-28-050725MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate(OU4-TS-28-050725MSD) analysis met criteria for all samples except for Arsenic and Silver due to Chemical Interference during Digestion Process.			
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:

The Post Digest Spike (OU4-TS-28-050725A) analysis met criteria for all samples except for Arsenic and Silver due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis, matrix has suppression effect during addition of spike.

Q1984 - SPLP all samples diluted 5X Straight due to SPLP fluid which cannot be injected as is without dilution to avoid damage to detector of instrument.

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

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.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 1:15 pm, May 23, 2025

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1984

	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:** 05/23/2025

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LAB CHRONICLE

OrderID:	Q1984	**OrderDate:**	5/8/2025 10:48:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1984-01	**OU4-PCS-TC-33-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/20/25	
Q1984-02	**OU4-PCS-TC-33-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-03	**OU4-PCS-TC-34-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/20/25	
Q1984-04	**OU4-PCS-TC-34-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-05	**OU4-PCS-TC-35-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	
Q1984-06	**OU4-PCS-TC-35-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-07	**OU4-TS-24-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	

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LAB CHRONICLE

Q1984-08	**OU4-TS-24-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-09	**OU4-TS-25-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	
Q1984-10	**OU4-TS-25-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-11	**OU4-TS-26-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	
Q1984-12	**OU4-TS-26-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-13	**OU4-TS-27-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	
Q1984-14	**OU4-TS-27-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/21/25	
Q1984-15	**OU4-TS-28-050725**	**SOIL**			**05/07/25**			**05/08/25**
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/21/25	
Q1984-16	**OU4-TS-28-050725**	**Water**			**05/07/25**			**05/08/25**
			SPLP Mercury	7470A		05/13/25	05/14/25	
			SPLP MetalGroup3	6020B		05/12/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1984 **Order ID:** Q1984

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : OU4-PCS-TC-33-050725									
Q1984-02	OU4-PCS-TC-33-050725	Water	Arsenic	2.55	JD	0.45	1.25	5.00	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Barium	93.4	D	1.05	6.25	50.0	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Chromium	2.95	JD	1.05	3.75	10.0	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Copper	15.6	D	1.50	7.50	10.0	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Nickel	81.0	D	1.35	3.75	5.00	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Mercury	0.27		0.076	0.16	0.20	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Vanadium	270	D	0.39	1.25	25.0	ug/L
Q1984-02	OU4-PCS-TC-33-050725	Water	Zinc	546	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-34-050725									
Q1984-04	OU4-PCS-TC-34-050725	Water	Arsenic	1.90	JD	0.45	1.25	5.00	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Barium	100	D	1.05	6.25	50.0	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Chromium	2.40	JD	1.05	3.75	10.0	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Copper	16.4	D	1.50	7.50	10.0	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Nickel	75.9	D	1.35	3.75	5.00	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Vanadium	184	D	0.39	1.25	25.0	ug/L
Q1984-04	OU4-PCS-TC-34-050725	Water	Zinc	543	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-35-050725									
Q1984-06	OU4-PCS-TC-35-050725	Water	Arsenic	1.80	JD	0.45	1.25	5.00	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Barium	99.6	D	1.05	6.25	50.0	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Chromium	2.30	JD	1.05	3.75	10.0	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Copper	17.3	D	1.50	7.50	10.0	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Nickel	77.6	D	1.35	3.75	5.00	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Vanadium	136	D	0.39	1.25	25.0	ug/L
Q1984-06	OU4-PCS-TC-35-050725	Water	Zinc	532	D	6.25	7.50	25.0	ug/L
Client ID : OU4-TS-24-050725									
Q1984-08	OU4-TS-24-050725	Water	Arsenic	25.3	D	0.45	1.25	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Barium	120	D	1.05	6.25	50.0	ug/L
Q1984-08	OU4-TS-24-050725	Water	Beryllium	12.4	D	1.60	3.75	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Cadmium	9.35	D	1.70	2.50	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Chromium	37.3	D	1.05	3.75	10.0	ug/L
Q1984-08	OU4-TS-24-050725	Water	Copper	171	D	1.50	7.50	10.0	ug/L
Q1984-08	OU4-TS-24-050725	Water	Lead	31.3	D	1.05	3.75	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Nickel	203	D	1.35	3.75	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Thallium	0.80	JD	0.30	2.50	5.00	ug/L
Q1984-08	OU4-TS-24-050725	Water	Vanadium	59.8	D	0.39	1.25	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1984 **Order ID:** Q1984

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q1984-08	OU4-TS-24-050725	Water	Zinc	2040	D	6.25	7.50	25.0	ug/L
Client ID :	**OU4-TS-25-050725**								
Q1984-10	OU4-TS-25-050725	Water	Arsenic	26.3	D	0.45	1.25	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Barium	118	D	1.05	6.25	50.0	ug/L
Q1984-10	OU4-TS-25-050725	Water	Beryllium	8.85	D	1.60	3.75	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Cadmium	7.05	D	1.70	2.50	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Chromium	21.4	D	1.05	3.75	10.0	ug/L
Q1984-10	OU4-TS-25-050725	Water	Copper	78.1	D	1.50	7.50	10.0	ug/L
Q1984-10	OU4-TS-25-050725	Water	Lead	21.3	D	1.05	3.75	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Nickel	136	D	1.35	3.75	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Thallium	0.60	JD	0.30	2.50	5.00	ug/L
Q1984-10	OU4-TS-25-050725	Water	Vanadium	43.5	D	0.39	1.25	25.0	ug/L
Q1984-10	OU4-TS-25-050725	Water	Zinc	1850	D	6.25	7.50	25.0	ug/L
Client ID :	**OU4-TS-26-050725**								
Q1984-12	OU4-TS-26-050725	Water	Arsenic	17.2	D	0.45	1.25	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Barium	114	D	1.05	6.25	50.0	ug/L
Q1984-12	OU4-TS-26-050725	Water	Beryllium	9.80	D	1.60	3.75	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Cadmium	8.00	D	1.70	2.50	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Chromium	15.8	D	1.05	3.75	10.0	ug/L
Q1984-12	OU4-TS-26-050725	Water	Copper	79.5	D	1.50	7.50	10.0	ug/L
Q1984-12	OU4-TS-26-050725	Water	Lead	17.7	D	1.05	3.75	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Nickel	149	D	1.35	3.75	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Thallium	0.70	JD	0.30	2.50	5.00	ug/L
Q1984-12	OU4-TS-26-050725	Water	Vanadium	24.6	JD	0.39	1.25	25.0	ug/L
Q1984-12	OU4-TS-26-050725	Water	Zinc	2430	D	6.25	7.50	25.0	ug/L
Client ID :	**OU4-TS-27-050725**								
Q1984-14	OU4-TS-27-050725	Water	Arsenic	21.2	D	0.45	1.25	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Barium	124	D	1.05	6.25	50.0	ug/L
Q1984-14	OU4-TS-27-050725	Water	Beryllium	8.70	D	1.60	3.75	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Cadmium	8.20	D	1.70	2.50	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Chromium	14.8	D	1.05	3.75	10.0	ug/L
Q1984-14	OU4-TS-27-050725	Water	Copper	63.8	D	1.50	7.50	10.0	ug/L
Q1984-14	OU4-TS-27-050725	Water	Lead	18.2	D	1.05	3.75	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Nickel	147	D	1.35	3.75	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Thallium	0.75	JD	0.30	2.50	5.00	ug/L
Q1984-14	OU4-TS-27-050725	Water	Vanadium	27.1	D	0.39	1.25	25.0	ug/L
Q1984-14	OU4-TS-27-050725	Water	Zinc	1990	D	6.25	7.50	25.0	ug/L
Client ID :	**OU4-TS-28-050725**								

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1984 **Order ID:** Q1984

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q1984-16	OU4-TS-28-050725	Water	Arsenic	24.5	D	0.45	1.25	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Barium	114	D	1.05	6.25	50.0	ug/L
Q1984-16	OU4-TS-28-050725	Water	Beryllium	13.6	D	1.60	3.75	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Cadmium	9.85	D	1.70	2.50	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Chromium	41.9	D	1.05	3.75	10.0	ug/L
Q1984-16	OU4-TS-28-050725	Water	Copper	298	D	1.50	7.50	10.0	ug/L
Q1984-16	OU4-TS-28-050725	Water	Lead	35.6	D	1.05	3.75	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Nickel	234	D	1.35	3.75	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Thallium	0.85	JD	0.30	2.50	5.00	ug/L
Q1984-16	OU4-TS-28-050725	Water	Vanadium	69.1	D	0.39	1.25	25.0	ug/L
Q1984-16	OU4-TS-28-050725	Water	Zinc	1810	D	6.25	7.50	25.0	ug/L

SAMPLE DATA

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-38-2	Arsenic	2.55	JDN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-39-3	Barium	93.4	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-47-3	Chromium	2.95	JD	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-50-8	Copper	15.6	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7439-97-6	Mercury	0.27	N	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:08	7470A	
7440-02-0	Nickel	81.0	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-62-2	Vanadium	270	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A
7440-66-6	Zinc	546	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:40	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-34-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-38-2	Arsenic	1.90	JDN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-39-3	Barium	100	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-47-3	Chromium	2.40	JD	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-50-8	Copper	16.4	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:10	7470A	
7440-02-0	Nickel	75.9	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-62-2	Vanadium	184	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A
7440-66-6	Zinc	543	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:43	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

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N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-35-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-38-2	Arsenic	1.80	JDN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-39-3	Barium	99.6	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-47-3	Chromium	2.30	JD	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-50-8	Copper	17.3	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:12	7470A	
7440-02-0	Nickel	77.6	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-62-2	Vanadium	136	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A
7440-66-6	Zinc	532	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:46	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-24-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-38-2	Arsenic	25.3	DN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-39-3	Barium	120	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-41-7	Beryllium	12.4	D	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-43-9	Cadmium	9.35	D	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-47-3	Chromium	37.3	D	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-50-8	Copper	171	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7439-92-1	Lead	31.3	D	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:15	7470A	
7440-02-0	Nickel	203	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-28-0	Thallium	0.80	JD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-62-2	Vanadium	59.8	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A
7440-66-6	Zinc	2040	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:50	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-38-2	Arsenic	26.3	DN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-39-3	Barium	118	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-41-7	Beryllium	8.85	D	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-43-9	Cadmium	7.05	D	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-47-3	Chromium	21.4	D	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-50-8	Copper	78.1	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7439-92-1	Lead	21.3	D	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:17	7470A	
7440-02-0	Nickel	136	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-28-0	Thallium	0.60	JD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-62-2	Vanadium	43.5	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A
7440-66-6	Zinc	1850	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:53	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

U = Not Detected
LOQ = Limit of Quantitation
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OR = Over Range
N =Spiked sample recovery not within control limits

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-12	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-38-2	Arsenic	17.2	DN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-39-3	Barium	114	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-41-7	Beryllium	9.80	D	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-43-9	Cadmium	8.00	D	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-47-3	Chromium	15.8	D	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-50-8	Copper	79.5	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7439-92-1	Lead	17.7	D	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:29	7470A	
7440-02-0	Nickel	149	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-28-0	Thallium	0.70	JD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-62-2	Vanadium	24.6	JD	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A
7440-66-6	Zinc	2430	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 15:56	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-38-2	Arsenic	21.2	DN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-39-3	Barium	124	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-41-7	Beryllium	8.70	D	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-43-9	Cadmium	8.20	D	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-47-3	Chromium	14.8	D	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-50-8	Copper	63.8	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7439-92-1	Lead	18.2	D	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:31	7470A	
7440-02-0	Nickel	147	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-28-0	Thallium	0.75	JD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-62-2	Vanadium	27.1	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A
7440-66-6	Zinc	1990	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/21/25 16:09	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
D = Dilution
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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:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-16	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	1.25	UD	5	0.55	1.25	10.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-38-2	Arsenic	24.5	DN	5	0.45	1.25	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-39-3	Barium	114	D	5	1.05	6.25	50.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-41-7	Beryllium	13.6	D	5	1.60	3.75	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-43-9	Cadmium	9.85	D	5	1.70	2.50	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-47-3	Chromium	41.9	D	5	1.05	3.75	10.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-50-8	Copper	298	D	5	1.50	7.50	10.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7439-92-1	Lead	35.6	D	5	1.05	3.75	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7439-97-6	Mercury	0.16	UN	1	0.076	0.16	0.20	ug/L	05/13/25 14:20	05/14/25 12:33	7470A	
7440-02-0	Nickel	234	D	5	1.35	3.75	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-28-0	Thallium	0.85	JD	5	0.30	2.50	5.00	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-62-2	Vanadium	69.1	D	5	0.39	1.25	25.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A
7440-66-6	Zinc	1810	D	5	6.25	7.50	25.0	ug/L	05/12/25 12:05	05/22/25 14:05	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	SPLP Mercury				

U = Not Detected
LOQ = Limit of Quantitation
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N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
ICV08	Mercury	3.70	4.0	93	90 - 110	CV	05/14/2025	11:42	LB135763

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
CCV22	Mercury	4.97	5.0	100	90 - 110	CV	05/14/2025	11:46	LB135763
CCV23	Mercury	5.44	5.0	109	90 - 110	CV	05/14/2025	12:24	LB135763
CCV24	Mercury	5.50	5.0	110	90 - 110	CV	05/14/2025	12:51	LB135763
CCV25	Mercury	4.82	5.0	96	90 - 110	CV	05/14/2025	13:28	LB135763
CCV26	Mercury	5.14	5.0	103	90 - 110	CV	05/14/2025	13:55	LB135763
CCV27	Mercury	4.71	5.0	94	90 - 110	CV	05/14/2025	14:23	LB135763
CCV28	Mercury	4.80	5.0	96	90 - 110	CV	05/14/2025	14:39	LB135763
CCV29	Mercury	5.15	5.0	103	90 - 110	CV	05/14/2025	14:57	LB135763

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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	Antimony	197	200	98	90 - 110	P	05/21/2025	14:30	LB135886
	Arsenic	198	200	99	90 - 110	P	05/21/2025	14:30	LB135886
	Barium	99.2	100	99	90 - 110	P	05/21/2025	14:30	LB135886
	Beryllium	106	100	106	90 - 110	P	05/21/2025	14:30	LB135886
	Cadmium	101	100	101	90 - 110	P	05/21/2025	14:30	LB135886
	Chromium	101	100	100	90 - 110	P	05/21/2025	14:30	LB135886
	Copper	108	100	108	90 - 110	P	05/21/2025	14:30	LB135886
	Lead	203	200	102	90 - 110	P	05/21/2025	14:30	LB135886
	Nickel	111	110	101	90 - 110	P	05/21/2025	14:30	LB135886
	Selenium	207	200	104	90 - 110	P	05/21/2025	14:30	LB135886
	Silver	47.6	50.0	95	90 - 110	P	05/21/2025	14:30	LB135886
	Thallium	206	210	98	90 - 110	P	05/21/2025	14:30	LB135886
	Vanadium	98.6	100	99	90 - 110	P	05/21/2025	14:30	LB135886
	Zinc	212	200	106	90 - 110	P	05/21/2025	14:30	LB135886

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
LLICV01	Antimony	1.96	2.0	98	80 - 120	P	05/21/2025	14:33	LB135886
	Arsenic	1.00	1.0	100	80 - 120	P	05/21/2025	14:33	LB135886
	Barium	9.67	10.0	97	80 - 120	P	05/21/2025	14:33	LB135886
	Beryllium	1.14	1.0	114	80 - 120	P	05/21/2025	14:33	LB135886
	Cadmium	0.90	1.0	90	80 - 120	P	05/21/2025	14:33	LB135886
	Chromium	1.99	2.0	100	80 - 120	P	05/21/2025	14:33	LB135886
	Copper	2.14	2.0	107	80 - 120	P	05/21/2025	14:33	LB135886
	Lead	0.83	1.0	83	80 - 120	P	05/21/2025	14:33	LB135886
	Nickel	0.93	1.0	93	80 - 120	P	05/21/2025	14:33	LB135886
	Selenium	4.91	5.0	98	80 - 120	P	05/21/2025	14:33	LB135886
	Silver	1.08	1.0	108	80 - 120	P	05/21/2025	14:33	LB135886
	Thallium	0.93	1.0	93	80 - 120	P	05/21/2025	14:33	LB135886
	Vanadium	4.86	5.0	97	80 - 120	P	05/21/2025	14:33	LB135886
	Zinc	5.18	5.0	104	80 - 120	P	05/21/2025	14:33	LB135886

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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	Antimony	501	500	100	90 - 110	P	05/21/2025	14:51	LB135886
	Arsenic	506	500	101	90 - 110	P	05/21/2025	14:51	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	14:51	LB135886
	Beryllium	529	500	106	90 - 110	P	05/21/2025	14:51	LB135886
	Cadmium	504	500	101	90 - 110	P	05/21/2025	14:51	LB135886
	Chromium	523	500	105	90 - 110	P	05/21/2025	14:51	LB135886
	Copper	5060	5000	101	90 - 110	P	05/21/2025	14:51	LB135886
	Lead	2600	2500	104	90 - 110	P	05/21/2025	14:51	LB135886
	Nickel	473	500	95	90 - 110	P	05/21/2025	14:51	LB135886
	Selenium	495	500	99	90 - 110	P	05/21/2025	14:51	LB135886
	Silver	492	500	98	90 - 110	P	05/21/2025	14:51	LB135886
	Thallium	524	500	105	90 - 110	P	05/21/2025	14:51	LB135886
	Vanadium	535	500	107	90 - 110	P	05/21/2025	14:51	LB135886
	Zinc	5180	5000	104	90 - 110	P	05/21/2025	14:51	LB135886
CCV02	Antimony	506	500	101	90 - 110	P	05/21/2025	15:59	LB135886
	Arsenic	500	500	100	90 - 110	P	05/21/2025	15:59	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	15:59	LB135886
	Beryllium	530	500	106	90 - 110	P	05/21/2025	15:59	LB135886
	Cadmium	508	500	102	90 - 110	P	05/21/2025	15:59	LB135886
	Chromium	523	500	105	90 - 110	P	05/21/2025	15:59	LB135886
	Copper	5080	5000	102	90 - 110	P	05/21/2025	15:59	LB135886
	Lead	2590	2500	104	90 - 110	P	05/21/2025	15:59	LB135886
	Nickel	471	500	94	90 - 110	P	05/21/2025	15:59	LB135886
	Selenium	492	500	98	90 - 110	P	05/21/2025	15:59	LB135886
	Silver	494	500	99	90 - 110	P	05/21/2025	15:59	LB135886
	Thallium	518	500	104	90 - 110	P	05/21/2025	15:59	LB135886
	Vanadium	526	500	105	90 - 110	P	05/21/2025	15:59	LB135886
	Zinc	5260	5000	105	90 - 110	P	05/21/2025	15:59	LB135886
CCV03	Antimony	493	500	99	90 - 110	P	05/21/2025	16:57	LB135886
	Arsenic	480	500	96	90 - 110	P	05/21/2025	16:57	LB135886
	Barium	2500	2500	100	90 - 110	P	05/21/2025	16:57	LB135886
	Beryllium	525	500	105	90 - 110	P	05/21/2025	16:57	LB135886
	Cadmium	488	500	98	90 - 110	P	05/21/2025	16:57	LB135886
	Chromium	503	500	101	90 - 110	P	05/21/2025	16:57	LB135886

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
CCV03	Copper	4870	5000	98	90 - 110	P	05/21/2025	16:57	LB135886
	Lead	2530	2500	101	90 - 110	P	05/21/2025	16:57	LB135886
	Nickel	451	500	90	90 - 110	P	05/21/2025	16:57	LB135886
	Selenium	488	500	98	90 - 110	P	05/21/2025	16:57	LB135886
	Silver	484	500	97	90 - 110	P	05/21/2025	16:57	LB135886
	Thallium	511	500	102	90 - 110	P	05/21/2025	16:57	LB135886
	Vanadium	504	500	101	90 - 110	P	05/21/2025	16:57	LB135886
	Zinc	4990	5000	100	90 - 110	P	05/21/2025	16:57	LB135886
CCV04	Antimony	505	500	101	90 - 110	P	05/21/2025	18:04	LB135886
	Arsenic	497	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Barium	2570	2500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Beryllium	545	500	109	90 - 110	P	05/21/2025	18:04	LB135886
	Cadmium	503	500	101	90 - 110	P	05/21/2025	18:04	LB135886
	Chromium	537	500	108	90 - 110	P	05/21/2025	18:04	LB135886
	Copper	5030	5000	101	90 - 110	P	05/21/2025	18:04	LB135886
	Lead	2590	2500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Nickel	476	500	95	90 - 110	P	05/21/2025	18:04	LB135886
	Selenium	495	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Silver	494	500	99	90 - 110	P	05/21/2025	18:04	LB135886
	Thallium	516	500	103	90 - 110	P	05/21/2025	18:04	LB135886
	Vanadium	536	500	107	90 - 110	P	05/21/2025	18:04	LB135886
	Zinc	5130	5000	103	90 - 110	P	05/21/2025	18:04	LB135886

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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	Antimony	196	200	98	90 - 110	P	05/22/2025	13:26	LB135893
	Arsenic	192	200	96	90 - 110	P	05/22/2025	13:26	LB135893
	Barium	97.9	100	98	90 - 110	P	05/22/2025	13:26	LB135893
	Beryllium	106	100	106	90 - 110	P	05/22/2025	13:26	LB135893
	Cadmium	98.0	100	98	90 - 110	P	05/22/2025	13:26	LB135893
	Chromium	95.9	100	96	90 - 110	P	05/22/2025	13:26	LB135893
	Copper	101	100	101	90 - 110	P	05/22/2025	13:26	LB135893
	Lead	200	200	100	90 - 110	P	05/22/2025	13:26	LB135893
	Nickel	110	110	100	90 - 110	P	05/22/2025	13:26	LB135893
	Selenium	204	200	102	90 - 110	P	05/22/2025	13:26	LB135893
	Silver	46.6	50.0	93	90 - 110	P	05/22/2025	13:26	LB135893
	Thallium	203	210	97	90 - 110	P	05/22/2025	13:26	LB135893
	Vanadium	95.4	100	95	90 - 110	P	05/22/2025	13:26	LB135893
	Zinc	201	200	100	90 - 110	P	05/22/2025	13:26	LB135893

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
LLICV01	Antimony	2.08	2.0	104	80 - 120	P	05/22/2025	13:33	LB135893
	Arsenic	1.05	1.0	105	80 - 120	P	05/22/2025	13:33	LB135893
	Barium	10.4	10.0	104	80 - 120	P	05/22/2025	13:33	LB135893
	Beryllium	1.19	1.0	119	80 - 120	P	05/22/2025	13:33	LB135893
	Cadmium	0.89	1.0	89	80 - 120	P	05/22/2025	13:33	LB135893
	Chromium	2.01	2.0	100	80 - 120	P	05/22/2025	13:33	LB135893
	Copper	2.04	2.0	102	80 - 120	P	05/22/2025	13:33	LB135893
	Lead	0.88	1.0	88	80 - 120	P	05/22/2025	13:33	LB135893
	Nickel	0.94	1.0	94	80 - 120	P	05/22/2025	13:33	LB135893
	Selenium	5.54	5.0	111	80 - 120	P	05/22/2025	13:33	LB135893
	Silver	1.12	1.0	112	80 - 120	P	05/22/2025	13:33	LB135893
	Thallium	1.01	1.0	101	80 - 120	P	05/22/2025	13:33	LB135893
	Vanadium	5.19	5.0	104	80 - 120	P	05/22/2025	13:33	LB135893
	Zinc	5.44	5.0	109	80 - 120	P	05/22/2025	13:33	LB135893

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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	Antimony	500	500	100	90 - 110	P	05/22/2025	13:50	LB135893
	Arsenic	505	500	101	90 - 110	P	05/22/2025	13:50	LB135893
	Barium	2530	2500	101	90 - 110	P	05/22/2025	13:50	LB135893
	Beryllium	520	500	104	90 - 110	P	05/22/2025	13:50	LB135893
	Cadmium	483	500	96	90 - 110	P	05/22/2025	13:50	LB135893
	Chromium	492	500	98	90 - 110	P	05/22/2025	13:50	LB135893
	Copper	5080	5000	102	90 - 110	P	05/22/2025	13:50	LB135893
	Lead	2590	2500	104	90 - 110	P	05/22/2025	13:50	LB135893
	Nickel	492	500	98	90 - 110	P	05/22/2025	13:50	LB135893
	Selenium	499	500	100	90 - 110	P	05/22/2025	13:50	LB135893
	Silver	481	500	96	90 - 110	P	05/22/2025	13:50	LB135893
	Thallium	511	500	102	90 - 110	P	05/22/2025	13:50	LB135893
	Vanadium	508	500	102	90 - 110	P	05/22/2025	13:50	LB135893
	Zinc	5280	5000	106	90 - 110	P	05/22/2025	13:50	LB135893
CCV02	Antimony	504	500	101	90 - 110	P	05/22/2025	14:24	LB135893
	Arsenic	491	500	98	90 - 110	P	05/22/2025	14:24	LB135893
	Barium	2590	2500	104	90 - 110	P	05/22/2025	14:24	LB135893
	Beryllium	512	500	102	90 - 110	P	05/22/2025	14:24	LB135893
	Cadmium	495	500	99	90 - 110	P	05/22/2025	14:24	LB135893
	Chromium	478	500	96	90 - 110	P	05/22/2025	14:24	LB135893
	Copper	4970	5000	99	90 - 110	P	05/22/2025	14:24	LB135893
	Lead	2500	2500	100	90 - 110	P	05/22/2025	14:24	LB135893
	Nickel	479	500	96	90 - 110	P	05/22/2025	14:24	LB135893
	Selenium	508	500	102	90 - 110	P	05/22/2025	14:24	LB135893
	Silver	490	500	98	90 - 110	P	05/22/2025	14:24	LB135893
	Thallium	499	500	100	90 - 110	P	05/22/2025	14:24	LB135893
	Vanadium	495	500	99	90 - 110	P	05/22/2025	14:24	LB135893
	Zinc	5100	5000	102	90 - 110	P	05/22/2025	14:24	LB135893

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CRDL STANDARD FOR AA & ICP

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

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
CRA	Mercury	0.18	0.2	89	70 - 130	CV	05/14/2025	11:54	LB135763
CRI	Antimony	1.93	2.0	96	70 - 130	P	05/21/2025	15:00	LB135886
	Arsenic	0.95	1.0	95	70 - 130	P	05/21/2025	15:00	LB135886
	Barium	9.45	10.0	94	70 - 130	P	05/21/2025	15:00	LB135886
	Beryllium	1.13	1.0	113	70 - 130	P	05/21/2025	15:00	LB135886
	Cadmium	0.83	1.0	83	70 - 130	P	05/21/2025	15:00	LB135886
	Chromium	2.03	2.0	102	70 - 130	P	05/21/2025	15:00	LB135886
	Copper	2.16	2.0	108	70 - 130	P	05/21/2025	15:00	LB135886
	Lead	0.83	1.0	83	70 - 130	P	05/21/2025	15:00	LB135886
	Nickel	0.95	1.0	95	70 - 130	P	05/21/2025	15:00	LB135886
	Selenium	4.84	5.0	97	70 - 130	P	05/21/2025	15:00	LB135886
	Silver	1.05	1.0	105	70 - 130	P	05/21/2025	15:00	LB135886
	Thallium	0.93	1.0	93	70 - 130	P	05/21/2025	15:00	LB135886
	Vanadium	5.02	5.0	100	70 - 130	P	05/21/2025	15:00	LB135886
	Zinc	5.25	5.0	105	50 - 150	P	05/21/2025	15:00	LB135886
CRI	Antimony	1.79	2.0	90	70 - 130	P	05/22/2025	14:01	LB135893
	Arsenic	0.91	1.0	91	70 - 130	P	05/22/2025	14:01	LB135893
	Barium	8.99	10.0	90	70 - 130	P	05/22/2025	14:01	LB135893
	Beryllium	1.04	1.0	104	70 - 130	P	05/22/2025	14:01	LB135893
	Cadmium	0.70	1.0	70	70 - 130	P	05/22/2025	14:01	LB135893
	Chromium	1.77	2.0	88	70 - 130	P	05/22/2025	14:01	LB135893
	Copper	1.80	2.0	90	70 - 130	P	05/22/2025	14:01	LB135893
	Lead	0.77	1.0	77	70 - 130	P	05/22/2025	14:01	LB135893
	Nickel	0.84	1.0	84	70 - 130	P	05/22/2025	14:01	LB135893
	Selenium	4.57	5.0	91	70 - 130	P	05/22/2025	14:01	LB135893
	Silver	0.97	1.0	97	70 - 130	P	05/22/2025	14:01	LB135893
	Thallium	0.91	1.0	91	70 - 130	P	05/22/2025	14:01	LB135893
	Vanadium	4.60	5.0	92	70 - 130	P	05/22/2025	14:01	LB135893
	Zinc	4.30	5.0	86	50 - 150	P	05/22/2025	14:01	LB135893

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB08	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:44	LB135763

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:51	LB135763
CCB23	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:26	LB135763
CCB24	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:54	LB135763
CCB25	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:30	LB135763
CCB26	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:57	LB135763
CCB27	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:25	LB135763
CCB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:41	LB135763
CCB29	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:59	LB135763

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/21/2025	14:37	LB135886
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/21/2025	14:37	LB135886
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/21/2025	14:37	LB135886
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:37	LB135886
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	14:37	LB135886
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/21/2025	14:37	LB135886
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/21/2025	14:37	LB135886
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:37	LB135886
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:37	LB135886
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/21/2025	14:37	LB135886
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	14:37	LB135886
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	14:37	LB135886
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/21/2025	14:37	LB135886
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/21/2025	14:37	LB135886

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/21/2025	14:57	LB135886
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/21/2025	14:57	LB135886
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/21/2025	14:57	LB135886
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:57	LB135886
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	14:57	LB135886
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/21/2025	14:57	LB135886
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/21/2025	14:57	LB135886
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:57	LB135886
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	14:57	LB135886
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/21/2025	14:57	LB135886
	Silver	0.080	+/-1.00	J	0.50	1.00	P	05/21/2025	14:57	LB135886
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	14:57	LB135886
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/21/2025	14:57	LB135886
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/21/2025	14:57	LB135886
CCB02	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/21/2025	16:05	LB135886
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/21/2025	16:05	LB135886
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/21/2025	16:05	LB135886
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	16:05	LB135886
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	16:05	LB135886
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/21/2025	16:05	LB135886
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/21/2025	16:05	LB135886
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	16:05	LB135886
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	16:05	LB135886
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/21/2025	16:05	LB135886
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	16:05	LB135886
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	16:05	LB135886
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/21/2025	16:05	LB135886
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/21/2025	16:05	LB135886
CCB03	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/21/2025	17:28	LB135886
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/21/2025	17:28	LB135886
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/21/2025	17:28	LB135886
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	17:28	LB135886
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	17:28	LB135886
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/21/2025	17:28	LB135886
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/21/2025	17:28	LB135886
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	17:28	LB135886
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	17:28	LB135886
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/21/2025	17:28	LB135886
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	17:28	LB135886

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	17:28	LB135886
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/21/2025	17:28	LB135886
	Zinc	2.43	+/-5.00	J	1.50	5.00	P	05/21/2025	17:28	LB135886
CCB04	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/21/2025	18:16	LB135886
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/21/2025	18:16	LB135886
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/21/2025	18:16	LB135886
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	18:16	LB135886
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	18:16	LB135886
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/21/2025	18:16	LB135886
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/21/2025	18:16	LB135886
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	18:16	LB135886
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/21/2025	18:16	LB135886
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/21/2025	18:16	LB135886
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	18:16	LB135886
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/21/2025	18:16	LB135886
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/21/2025	18:16	LB135886
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/21/2025	18:16	LB135886

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/22/2025	13:40	LB135893
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/22/2025	13:40	LB135893
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/22/2025	13:40	LB135893
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:40	LB135893
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:40	LB135893
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/22/2025	13:40	LB135893
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/22/2025	13:40	LB135893
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:40	LB135893
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:40	LB135893
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/22/2025	13:40	LB135893
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:40	LB135893
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:40	LB135893
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/22/2025	13:40	LB135893
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/22/2025	13:40	LB135893

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Antimony	0.12	+/-2.00	J	0.25	2.00	P	05/22/2025	13:54	LB135893
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/22/2025	13:54	LB135893
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/22/2025	13:54	LB135893
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:54	LB135893
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:54	LB135893
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/22/2025	13:54	LB135893
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/22/2025	13:54	LB135893
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:54	LB135893
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	13:54	LB135893
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/22/2025	13:54	LB135893
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:54	LB135893
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	13:54	LB135893
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/22/2025	13:54	LB135893
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/22/2025	13:54	LB135893
CCB02	Antimony	2.00	+/-2.00	U	0.25	2.00	P	05/22/2025	14:32	LB135893
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	05/22/2025	14:32	LB135893
	Barium	10.0	+/-10.0	U	1.25	10.0	P	05/22/2025	14:32	LB135893
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	14:32	LB135893
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	14:32	LB135893
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	05/22/2025	14:32	LB135893
	Copper	2.00	+/-2.00	U	1.50	2.00	P	05/22/2025	14:32	LB135893
	Lead	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	14:32	LB135893
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	05/22/2025	14:32	LB135893
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	05/22/2025	14:32	LB135893
	Silver	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	14:32	LB135893
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	05/22/2025	14:32	LB135893
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	05/22/2025	14:32	LB135893
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	05/22/2025	14:32	LB135893

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Metals
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PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167978BL		**WATER**		**Batch Number:**		**PB167978**		**Prep Date:**	**05/13/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	05/14/2025	12:03	LB135763
Sample ID	**Analyte**	**Result (ug/L)**	**Acceptance Limit**	**Conc Qual**	LOD **ug/L**	**CRQL ug/L**	**M**	**Analysis Date**	**Analysis Time**	**Run**
PB167978TB		**WATER**		**Batch Number:**		**PB167978**		**Prep Date:**	**05/13/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	05/14/2025	14:34	LB135763

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167960BL		**WATER**		**Batch Number:**		**PB167960**		**Prep Date:**	**05/12/2025**	
	Antimony	2.00	<2.00	U	0.25	2.00	P	05/21/2025	15:31	LB135886
	Arsenic	1.00	<1.00	U	0.25	1.00	P	05/21/2025	15:31	LB135886
	Barium	10.0	<10.0	U	1.25	10.0	P	05/21/2025	15:31	LB135886
	Beryllium	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:31	LB135886
	Cadmium	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:31	LB135886
	Chromium	2.00	<2.00	U	0.75	2.00	P	05/21/2025	15:31	LB135886
	Copper	2.00	<2.00	U	1.50	2.00	P	05/21/2025	15:31	LB135886
	Lead	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:31	LB135886
	Nickel	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:31	LB135886
	Selenium	5.00	<5.00	U	4.50	5.00	P	05/21/2025	15:31	LB135886
	Silver	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:31	LB135886
	Thallium	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:31	LB135886
	Vanadium	5.00	<5.00	U	0.25	5.00	P	05/21/2025	15:31	LB135886
	Zinc	5.00	<5.00	U	1.50	5.00	P	05/21/2025	15:31	LB135886

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167960TB		**WATER**		**Batch Number:**		**PB167960**		**Prep Date:**	**05/12/2025**	
	Antimony	2.00	<2.00	U	0.25	2.00	P	05/21/2025	15:37	LB135886
	Arsenic	1.00	<1.00	U	0.25	1.00	P	05/21/2025	15:37	LB135886
	Barium	10.0	<10.0	U	1.25	10.0	P	05/21/2025	15:37	LB135886
	Beryllium	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:37	LB135886
	Cadmium	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:37	LB135886
	Chromium	2.00	<2.00	U	0.75	2.00	P	05/21/2025	15:37	LB135886
	Copper	2.00	<2.00	U	1.50	2.00	P	05/21/2025	15:37	LB135886
	Lead	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:37	LB135886
	Nickel	1.00	<1.00	U	0.75	1.00	P	05/21/2025	15:37	LB135886
	Selenium	5.00	<5.00	U	4.50	5.00	P	05/21/2025	15:37	LB135886
	Silver	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:37	LB135886
	Thallium	1.00	<1.00	U	0.50	1.00	P	05/21/2025	15:37	LB135886
	Vanadium	5.00	<5.00	U	0.25	5.00	P	05/21/2025	15:37	LB135886
	Zinc	5.00	<5.00	U	1.50	5.00	P	05/21/2025	15:37	LB135886

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

ICS Source: EPA **Instrument ID:** P8

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	Antimony	1.07	1.5	71	-2.5	5.5	05/21/2025	14:40	LB135886
	Arsenic	0.29	0.1	290	-1.9	2.1	05/21/2025	14:40	LB135886
	Barium	1.41	1.2	118	-18.8	21.2	05/21/2025	14:40	LB135886
	Beryllium	0.30			-2	2	05/21/2025	14:40	LB135886
	Cadmium	0.46	0.7	66	-1.3	2.7	05/21/2025	14:40	LB135886
	Chromium	19.4	21.0	92	17	25	05/21/2025	14:40	LB135886
	Copper	7.56	8.0	94	4	12	05/21/2025	14:40	LB135886
	Lead	4.23	4.0	106	2	6	05/21/2025	14:40	LB135886
	Nickel	5.29	6.0	88	4	8	05/21/2025	14:40	LB135886
	Selenium	0.090	0.3	30	-9.7	10	05/21/2025	14:40	LB135886
	Silver	0.050			-2	2	05/21/2025	14:40	LB135886
	Thallium	0.14			-2	2	05/21/2025	14:40	LB135886
	Vanadium	0.14	0.5	28	-9.5	10.5	05/21/2025	14:40	LB135886
	Zinc	10.7	11.0	98	1	21	05/21/2025	14:40	LB135886
ICSAB01	Antimony	20.2	22.0	92	18	26	05/21/2025	14:43	LB135886
	Arsenic	20.7	19.0	109	16.2	21.9	05/21/2025	14:43	LB135886
	Barium	21.3	22.0	97	2	42	05/21/2025	14:43	LB135886
	Beryllium	21.7	19.0	114	16.2	21.9	05/21/2025	14:43	LB135886
	Cadmium	19.4	20.0	97	17	23	05/21/2025	14:43	LB135886
	Chromium	39.6	40.0	99	34	46	05/21/2025	14:43	LB135886
	Copper	27.9	25.0	112	21	29	05/21/2025	14:43	LB135886
	Lead	27.3	25.0	109	21.3	28.8	05/21/2025	14:43	LB135886
	Nickel	24.7	24.0	103	20.4	27.6	05/21/2025	14:43	LB135886
	Selenium	20.8	19.0	110	9	29	05/21/2025	14:43	LB135886
	Silver	18.4	18.0	102	15.3	20.7	05/21/2025	14:43	LB135886
	Thallium	20.3	21.0	97	17.9	24.2	05/21/2025	14:43	LB135886
	Vanadium	20.4	19.0	107	9	29	05/21/2025	14:43	LB135886
	Zinc	31.1	29.0	107	19	39	05/21/2025	14:43	LB135886
ICSA01	Antimony	1.08	1.5	72	-2.5	5.5	05/22/2025	13:44	LB135893
	Arsenic	0.24	0.1	240	-1.9	2.1	05/22/2025	13:44	LB135893
	Barium	1.40	1.2	117	-18.8	21.2	05/22/2025	13:44	LB135893
	Beryllium	0.30			-2	2	05/22/2025	13:44	LB135893
	Cadmium	0.34	0.7	49	-1.3	2.7	05/22/2025	13:44	LB135893
	Chromium	19.5	21.0	93	17	25	05/22/2025	13:44	LB135893
	Copper	7.52	8.0	94	4	12	05/22/2025	13:44	LB135893
	Lead	4.28	4.0	107	2	6	05/22/2025	13:44	LB135893
	Nickel	5.63	6.0	94	4	8	05/22/2025	13:44	LB135893
	Selenium	0	0.3		-9.7	10	05/22/2025	13:44	LB135893
	Silver	0.050			-2	2	05/22/2025	13:44	LB135893
	Thallium	0.12			-2	2	05/22/2025	13:44	LB135893
	Vanadium	0.16	0.5	32	-9.5	10.5	05/22/2025	13:44	LB135893
	Zinc	10.2	11.0	92	1	21	05/22/2025	13:44	LB135893

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

ICS Source: EPA **Instrument ID:** P8

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
ICSAB01	Antimony	20.4	22.0	93	18	26	05/22/2025	13:47	LB135893
	Arsenic	19.0	19.0	100	16.2	21.9	05/22/2025	13:47	LB135893
	Barium	21.6	22.0	98	2	42	05/22/2025	13:47	LB135893
	Beryllium	21.8	19.0	115	16.2	21.9	05/22/2025	13:47	LB135893
	Cadmium	19.4	20.0	97	17	23	05/22/2025	13:47	LB135893
	Chromium	37.0	40.0	92	34	46	05/22/2025	13:47	LB135893
	Copper	26.1	25.0	104	21	29	05/22/2025	13:47	LB135893
	Lead	24.4	25.0	98	21.3	28.8	05/22/2025	13:47	LB135893
	Nickel	24.5	24.0	102	20.4	27.6	05/22/2025	13:47	LB135893
	Selenium	20.1	19.0	106	9	29	05/22/2025	13:47	LB135893
	Silver	18.3	18.0	102	15.3	20.7	05/22/2025	13:47	LB135893
	Thallium	19.6	21.0	93	17.9	24.2	05/22/2025	13:47	LB135893
	Vanadium	19.0	19.0	100	9	29	05/22/2025	13:47	LB135893
	Zinc	28.2	29.0	97	19	39	05/22/2025	13:47	LB135893

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1984

contract: NOBI03 **lab code:** CHEM **case no.:** Q1984 **sas no.:** Q1984

matrix: Water **sample id:** Q1984-16 **client id:** OU4-TS-28-050725MS

Percent Solids for Sample: NA **Spiked ID:** Q1984-16MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	85 - 117	471	D	10.0	UD	500	94		P
Arsenic	ug/L	84 - 116	21.3	D	24.5	D	500	-1	N	P
Barium	ug/L	86 - 114	2330	D	114	D	2500	89		P
Beryllium	ug/L	83 - 121	516	D	13.6	D	500	100		P
Cadmium	ug/L	87 - 115	486	D	9.85	D	500	95		P
Chromium	ug/L	85 - 116	499	D	41.9	D	500	91		P
Copper	ug/L	85 - 118	5390	D	298	D	5000	102		P
Lead	ug/L	88 - 115	2480	D	35.6	D	2500	98		P
Nickel	ug/L	85 - 117	709	D	234	D	500	95		P
Mercury	ug/L	82 - 119	3.76		0.20	U	4.0	94		CV
Selenium	ug/L	80 - 120	431	D	25.0	UD	500	85		P
Silver	ug/L	85 - 116	81.2	D	5.00	UD	500	16	N	P
Thallium	ug/L	82 - 116	490	D	0.85	JD	500	98		P
Vanadium	ug/L	86 - 115	554	D	69.1	D	500	97		P
Zinc	ug/L	83 - 119	6590	D	1810	D	5000	96		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1984

contract: NOBI03 **lab code:** CHEM **case no.:** Q1984 **sas no.:** Q1984

matrix: Water **sample id:** Q1984-16 **client id:** OU4-TS-28-050725MSD

Percent Solids for Sample: NA **Spiked ID:** Q1984-16MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	85 - 117	463	D	10.0	UD	500	93		P
Arsenic	ug/L	84 - 116	20.5	D	24.5	D	500	-1	N	P
Barium	ug/L	86 - 114	2320	D	114	D	2500	88		P
Beryllium	ug/L	83 - 121	510	D	13.6	D	500	99		P
Cadmium	ug/L	87 - 115	477	D	9.85	D	500	93		P
Chromium	ug/L	85 - 116	494	D	41.9	D	500	90		P
Copper	ug/L	85 - 118	5300	D	298	D	5000	100		P
Lead	ug/L	88 - 115	2450	D	35.6	D	2500	96		P
Nickel	ug/L	85 - 117	699	D	234	D	500	93		P
Mercury	ug/L	82 - 119	3.21		0.20	U	4.0	80	N	CV
Selenium	ug/L	80 - 120	432	D	25.0	UD	500	85		P
Silver	ug/L	85 - 116	79.8	D	5.00	UD	500	16	N	P
Thallium	ug/L	82 - 116	475	D	0.85	JD	500	95		P
Vanadium	ug/L	86 - 115	550	D	69.1	D	500	96		P
Zinc	ug/L	83 - 119	6490	D	1810	D	5000	94		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Matrix: Water **Level:** LOW **Client ID:** OU4-TS-28-050725A

Sample ID: Q1984-16 **Spiked ID:** Q1984-16A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	20.8	D	24.5	D	500	-1	N	P
Mercury	ug/L	82 - 119	3.88		0.20	U	4.00	97		CV
Silver	ug/L	85 - 116	81.7	D	5.00	UD	500	16	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Matrix: Water **Sample ID:** Q1984-16 **Client ID:** OU4-TS-28-050725DUP

Percent Solids for Sample: NA **Duplicate ID** Q1984-16DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	10.0	UD	10.0	UD			P
Arsenic	ug/L	20	24.5	D	22.9	D	7		P
Barium	ug/L	20	114	D	114	D	0		P
Beryllium	ug/L	20	13.6	D	13.2	D	3		P
Cadmium	ug/L	20	9.85	D	9.70	D	2		P
Chromium	ug/L	20	41.9	D	42.8	D	2		P
Copper	ug/L	20	298	D	291	D	2		P
Lead	ug/L	20	35.6	D	34.9	D	2		P
Nickel	ug/L	20	234	D	231	D	1		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Selenium	ug/L	20	25.0	UD	25.0	UD			P
Silver	ug/L	20	5.00	UD	5.00	UD			P
Thallium	ug/L	20	0.85	JD	0.80	JD	6		P
Vanadium	ug/L	20	69.1	D	68.3	D	1		P
Zinc	ug/L	20	1810	D	1750	D	3		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

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Matrix: Water **Sample ID:** Q1984-16MS **Client ID:** OU4-TS-28-050725MSD

Percent Solids for Sample: NA **Duplicate ID** Q1984-16MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	471	D	463	D	2		P
Arsenic	ug/L	20	21.3	D	20.5	D	4		P
Barium	ug/L	20	2330	D	2320	D	0		P
Beryllium	ug/L	20	516	D	510	D	1		P
Cadmium	ug/L	20	486	D	477	D	2		P
Chromium	ug/L	20	499	D	494	D	1		P
Copper	ug/L	20	5390	D	5300	D	2		P
Lead	ug/L	20	2480	D	2450	D	1		P
Nickel	ug/L	20	709	D	699	D	1		P
Mercury	ug/L	20	3.76		3.21		16		CV
Selenium	ug/L	20	431	D	432	D	0		P
Silver	ug/L	20	81.2	D	79.8	D	2		P
Thallium	ug/L	20	490	D	475	D	3		P
Vanadium	ug/L	20	554	D	550	D	1		P
Zinc	ug/L	20	6590	D	6490	D	2		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: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167960BS							
Antimony	ug/L	500	516		103	85 - 117	P
Arsenic	ug/L	500	515		103	84 - 116	P
Barium	ug/L	2500	2580		103	86 - 114	P
Beryllium	ug/L	500	518		104	83 - 121	P
Cadmium	ug/L	500	528		106	87 - 115	P
Chromium	ug/L	500	524		105	85 - 116	P
Copper	ug/L	5000	5230		105	85 - 118	P
Lead	ug/L	2500	2500		100	88 - 115	P
Nickel	ug/L	500	495		99	85 - 117	P
Selenium	ug/L	500	505		101	80 - 120	P
Silver	ug/L	500	522		104	85 - 116	P
Thallium	ug/L	500	500		100	82 - 116	P
Vanadium	ug/L	500	516		103	86 - 115	P
Zinc	ug/L	5000	5300		106	83 - 119	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1984 **SAS No.:** Q1984

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167978BS							
Mercury	ug/L	4.0	3.69		92	82 - 119	CV

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/21/2025

Run Number: LB135886 | End Date : 05/21/2025

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	1353	100		100		100		100		100	
S2	S2	1400	102		100		101		99		99	
S3	S3	1403	103		98		100		97		100	
S4	S4	1407	104		96		98		94		100	
S5	S5	1409	101		94		96		91		97	
S6	S6	1412	100		91		93		88		97	
S7	S7	1415	95		89		91		84		95	
S8	S8	1418	86		84		88		75		90	
ICV01	ICV01	1430	103		99		101		98		101	
LLICV01	LLICV01	1433	104		99		101		98		100	
ICB01	ICB01	1437	104		101		103		101		102	
ICSA01	ICSA01	1440	99		96		97		88		99	
ICSAB01	ICSAB01	1443	100		97		100		91		101	
CCV01	CCV01	1451	92		92		94		84		96	
CCB01	CCB01	1457	105		101		103		101		103	
CRI	CRI	1500	103		103		105		101		104	
PB167960BL	PB167960BL	1531	102		102		105		102		102	
PB167960BS	PB167960BS	1534	99		98		100		93		100	
PB167960TB	PB167960TB	1537	103		101		103		100		103	
Q1984-02	OU4-PCS-TC-	1540	102		102		109		99		103	
Q1984-04	OU4-PCS-TC-	1543	102		100		105		96		101	
Q1984-06	OU4-PCS-TC-	1546	101		100		106		97		101	
Q1984-08	OU4-TS-24-0	1550	100		99		112		96		103	
Q1984-10	OU4-TS-25-0	1553	98		99		104		96		101	
Q1984-12	OU4-TS-26-0	1556	100		100		107		96		102	
CCV02	CCV02	1559	89		89		93		82		94	
CCB02	CCB02	1605	101		101		100		99		101	
Q1984-14	OU4-TS-27-0	1609	103		100		107		97		102	
Q1984-16	OU4-TS-28-0	1612	102		101		119		96		104	
Q1984-16DUP	OU4-TS-28-0	1615	103		100		116		96		104	
Q1984-16L	OU4-TS-28-0	1618	101		99		116		97		102	
Q1984-16MS	OU4-TS-28-0	1622	100		99		115		95		102	
Q1984-16MSD	OU4-TS-28-0	1624	98		98		115		94		102	
Q1984-16A	OU4-TS-28-0	1627	98		97		115		95		102	
ZZZZZZ	ZZZZZZ	1645										
ZZZZZZ	ZZZZZZ	1649										

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/21/2025

Run Number: LB135886 | End Date : 05/21/2025

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	1654										
CCV03	CCV03	1657	89		93		96		85		98	
CCB03	CCB03	1728	99		99		102		99		104	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/21/2025

Run Number: LB135886 | End Date : 05/21/2025

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	1353	100		100		100		100		100	
S2	S2	1400	101		102		100		100		102	
S3	S3	1403	99		99		98		98		99	
S4	S4	1407	97		95		95		96		98	
S5	S5	1409	94		93		91		95		96	
S6	S6	1412	93		91		89		93		96	
S7	S7	1415	92		89		84		91		93	
S8	S8	1418	85		86		75		87		89	
ICV01	ICV01	1430	100		100		99		99		101	
LLICV01	LLICV01	1433	100		101		100		99		101	
ICB01	ICB01	1437	100		103		102		100		103	
ICSA01	ICSA01	1440	96		97		91		97		100	
ICSAB01	ICSAB01	1443	96		97		89		96		100	
CCV01	CCV01	1451	94		94		85		93		96	
CCB01	CCB01	1457	101		101		101		99		102	
CRI	CRI	1500	100		101		101		99		101	
PB167960BL	PB167960BL	1531	103		105		105		102		103	
PB167960BS	PB167960BS	1534	98		96		92		97		100	
PB167960TB	PB167960TB	1537	101		102		102		100		102	
Q1984-02	OU4-PCS-TC-	1540	99		105		98		100		103	
Q1984-04	OU4-PCS-TC-	1543	98		103		96		98		100	
Q1984-06	OU4-PCS-TC-	1546	98		103		96		98		99	
Q1984-08	OU4-TS-24-0	1550	98		107		96		98		99	
Q1984-10	OU4-TS-25-0	1553	97		103		96		98		99	
Q1984-12	OU4-TS-26-0	1556	98		103		97		99		100	
CCV02	CCV02	1559	91		91		82		91		93	
CCB02	CCB02	1605	98		99		99		98		100	
Q1984-14	OU4-TS-27-0	1609	98		102		96		99		100	
Q1984-16	OU4-TS-28-0	1612	96		109		94		96		98	
Q1984-16DUP	OU4-TS-28-0	1615	97		110		95		97		99	
Q1984-16L	OU4-TS-28-0	1618	93		107		92		94		97	
Q1984-16MS	OU4-TS-28-0	1622	96		109		94		96		99	
Q1984-16MSD	OU4-TS-28-0	1624	96		110		94		96		97	
Q1984-16A	OU4-TS-28-0	1627	97		110		94		97		99	
ZZZZZZ	ZZZZZZ	1645										
ZZZZZZ	ZZZZZZ	1649										

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/21/2025

Run Number: LB135886 | End Date : 05/21/2025

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	1654										
CCV03	CCV03	1657	97		97		88		96		98	
CCB03	CCB03	1728	98		99		100		98		100	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/22/2025

Run Number: LB135893 | End Date : 05/22/2025

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	1227	100		100		100		100		100	
S2	S2	1230	101		101		102		101		100	
S3	S3	1237	99		102		103		100		102	
S4	S4	1241	98		98		102		97		101	
S5	S5	1244	95		94		100		94		100	
S6	S6	1248	93		93		97		90		100	
S7	S7	1250	89		90		95		87		97	
S8	S8	1253	82		87		91		80		93	
ICV01	ICV01	1326	97		96		100		98		100	
LLICV01	LLICV01	1333	95		94		97		96		98	
ICB01	ICB01	1340	95		96		98		96		98	
ICSA01	ICSA01	1344	89		90		94		88		95	
ICSAB01	ICSAB01	1347	88		91		95		88		95	
CCV01	CCV01	1350	83		88		92		82		94	
CCB01	CCB01	1354	91		93		97		93		97	
CRI	CRI	1401	93		93		97		93		98	
Q1984-16	OU4-TS-28-01	1405	93		94		113		92		98	
Q1984-16DUP	OU4-TS-28-01	1408	92		91		111		93		97	
Q1984-16L	OU4-TS-28-01	1411	91		91		99		94		96	
Q1984-16MS	OU4-TS-28-01	1415	91		93		112		91		98	
Q1984-16MSD	OU4-TS-28-01	1418	91		94		112		92		99	
Q1984-16A	OU4-TS-28-01	1421	90		95		112		91		98	
CCV02	CCV02	1424	83		88		90		82		92	
CCB02	CCB02	1432	93		94		99		95		99	

Internal Standard %RI Limit: 30 - 120

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/22/2025

Run Number: LB135893 | End Date : 05/22/2025

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	1227	100		100		100		100		100	
S2	S2	1230	103		102		100		103		101	
S3	S3	1237	100		100		100		102		101	
S4	S4	1241	97		97		95		101		98	
S5	S5	1244	95		95		93		99		100	
S6	S6	1248	92		92		90		95		97	
S7	S7	1250	92		90		85		95		94	
S8	S8	1253	85		86		78		92		92	
ICV01	ICV01	1326	98		98		97		101		100	
LLICV01	LLICV01	1333	97		96		96		99		97	
ICB01	ICB01	1340	96		95		95		97		97	
ICSA01	ICSA01	1344	90		90		85		95		93	
ICSAB01	ICSAB01	1347	94		95		88		98		97	
CCV01	CCV01	1350	88		88		82		92		93	
CCB01	CCB01	1354	92		93		95		97		96	
CRI	CRI	1401	92		92		93		95		96	
Q1984-16	OU4-TS-28-01	1405	89		104		89		94		95	
Q1984-16DUP	OU4-TS-28-01	1408	89		104		88		93		94	
Q1984-16L	OU4-TS-28-01	1411	91		94		92		93		93	
Q1984-16MS	OU4-TS-28-01	1415	91		105		89		95		95	
Q1984-16MSD	OU4-TS-28-01	1418	92		105		90		96		96	
Q1984-16A	OU4-TS-28-01	1421	91		105		89		96		95	
CCV02	CCV02	1424	90		90		83		93		93	
CCB02	CCB02	1432	91		90		91		93		93	

Internal Standard %RI Limit: 30 - 120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group Contract: NOBI03

Lab Code: CHEM Case no.: Q1984 Sas No.: Q1984 SDG No.: Q1984

Instrument ID: P8 Start Date : 05/21/2025

Run Number: LB135886 End Date : 05/21/2025

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	1353	100		100							
S2	S2	1400	102		100							
S3	S3	1403	101		99							
S4	S4	1407	101		99							
S5	S5	1409	99		97							
S6	S6	1412	98		94							
S7	S7	1415	97		91							
S8	S8	1418	93		81							
ICV01	ICV01	1430	102		101							
LLICV01	LLICV01	1433	103		101							
ICB01	ICB01	1437	104		103							
ICSA01	ICSA01	1440	101		93							
ICSAB01	ICSAB01	1443	103		93							
CCV01	CCV01	1451	97		86							
CCB01	CCB01	1457	104		103							
CRI	CRI	1500	104		103							
PB167960BL	PB167960BL	1531	104		102							
PB167960BS	PB167960BS	1534	102		97							
PB167960TB	PB167960TB	1537	105		104							
Q1984-02	OU4-PCS-TC-3	1540	107		103							
Q1984-04	OU4-PCS-TC-3	1543	103		100							
Q1984-06	OU4-PCS-TC-3	1546	104		100							
Q1984-08	OU4-TS-24-05	1550	104		102							
Q1984-10	OU4-TS-25-05	1553	103		101							
Q1984-12	OU4-TS-26-05	1556	104		102							
CCV02	CCV02	1559	98		88							
CCB02	CCB02	1605	103		105							
Q1984-14	OU4-TS-27-05	1609	105		102							
Q1984-16	OU4-TS-28-05	1612	105		103							
Q1984-16DUP	OU4-TS-28-05	1615	106		102							
Q1984-16L	OU4-TS-28-05	1618	106		102							
Q1984-16MS	OU4-TS-28-05	1622	104		101							
Q1984-16MSD	OU4-TS-28-05	1624	105		101							
Q1984-16A	OU4-TS-28-05	1627	106		101							

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group Contract: NOBI03

Lab Code: CHEM Case no.: Q1984 Sas No.: Q1984 SDG No.: Q1984

Instrument ID: P8 Start Date : 05/21/2025

Run Number: LB135886 End Date : 05/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1645										
ZZZZZZ	ZZZZZZ	1649										
ZZZZZZ	ZZZZZZ	1654										
CCV03	CCV03	1657	98		91							
CCB03	CCB03	1728	105		105							

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/21/2025

Run Number: LB135886 | End Date : 05/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1353	100									
S2	S2	1400	98									
S3	S3	1403	96									
S4	S4	1407	95									
S5	S5	1409	92									
S6	S6	1412	91									
S7	S7	1415	86									
S8	S8	1418	77									
ICV01	ICV01	1430	99									
LLICV01	LLICV01	1433	98									
ICB01	ICB01	1437	100									
ICSA01	ICSA01	1440	90									
ICSAB01	ICSAB01	1443	90									
CCV01	CCV01	1451	84									
CCB01	CCB01	1457	99									
CRI	CRI	1500	99									
PB167960BL	PB167960BL	1531	101									
PB167960BS	PB167960BS	1534	93									
PB167960TB	PB167960TB	1537	100									
Q1984-02	OU4-PCS-TC-3	1540	98									
Q1984-04	OU4-PCS-TC-3	1543	96									
Q1984-06	OU4-PCS-TC-3	1546	97									
Q1984-08	OU4-TS-24-05	1550	96									
Q1984-10	OU4-TS-25-05	1553	95									
Q1984-12	OU4-TS-26-05	1556	96									
CCV02	CCV02	1559	82									
CCB02	CCB02	1605	98									
Q1984-14	OU4-TS-27-05	1609	95									
Q1984-16	OU4-TS-28-05	1612	94									
Q1984-16DUP	OU4-TS-28-05	1615	94									
Q1984-16L	OU4-TS-28-05	1618	91									
Q1984-16MS	OU4-TS-28-05	1622	92									
Q1984-16MSD	OU4-TS-28-05	1624	93									
Q1984-16A	OU4-TS-28-05	1627	93									

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group Contract: NOBI03

Lab Code: CHEM Case no.: Q1984 Sas No.: Q1984 SDG No.: Q1984

Instrument ID: P8 Start Date : 05/21/2025

Run Number: LB135886 End Date : 05/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1645										
ZZZZZZ	ZZZZZZ	1649										
ZZZZZZ	ZZZZZZ	1654										
CCV03	CCV03	1657	88									
CCB03	CCB03	1728	99									

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group Contract: NOBI03

Lab Code: CHEM Case no.: Q1984 Sas No.: Q1984 SDG No.: Q1984

Instrument ID: P8 Start Date : 05/22/2025

Run Number: LB135893 End Date : 05/22/2025

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	1227	100		100							
S2	S2	1230	101		98							
S3	S3	1237	100		101							
S4	S4	1241	102		101							
S5	S5	1244	103		99							
S6	S6	1248	100		98							
S7	S7	1250	100		95							
S8	S8	1253	96		87							
ICV01	ICV01	1326	101		100							
LLICV01	LLICV01	1333	98		97							
ICB01	ICB01	1340	97		97							
ICSA01	ICSA01	1344	96		91							
ICSAB01	ICSAB01	1347	96		91							
CCV01	CCV01	1350	96		88							
CCB01	CCB01	1354	97		98							
CRI	CRI	1401	98		97							
Q1984-16	OU4-TS-28-05	1405	99		97							
Q1984-16DUP	OU4-TS-28-05	1408	98		97							
Q1984-16L	OU4-TS-28-05	1411	99		98							
Q1984-16MS	OU4-TS-28-05	1415	99		95							
Q1984-16MSD	OU4-TS-28-05	1418	99		96							
Q1984-16A	OU4-TS-28-05	1421	98		96							
CCV02	CCV02	1424	94		88							
CCB02	CCB02	1432	100		100							

Internal Standard %RI Limit: 30 -120

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Nobis Group | Contract: NOBI03

Lab Code: CHEM | Case no.: Q1984 | Sas No.: Q1984 | SDG No.: Q1984

Instrument ID: P8 | Start Date : 05/22/2025

Run Number: LB135893 | End Date : 05/22/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1227	100									
S2	S2	1230	100									
S3	S3	1237	101									
S4	S4	1241	98									
S5	S5	1244	97									
S6	S6	1248	93									
S7	S7	1250	89									
S8	S8	1253	82									
ICV01	ICV01	1326	101									
LLICV01	LLICV01	1333	98									
ICB01	ICB01	1340	98									
ICSA01	ICSA01	1344	89									
ICSAB01	ICSAB01	1347	92									
CCV01	CCV01	1350	85									
CCB01	CCB01	1354	97									
CRI	CRI	1401	96									
Q1984-16	OU4-TS-28-05	1405	92									
Q1984-16DUP	OU4-TS-28-05	1408	92									
Q1984-16L	OU4-TS-28-05	1411	94									
Q1984-16MS	OU4-TS-28-05	1415	92									
Q1984-16MSD	OU4-TS-28-05	1418	93									
Q1984-16A	OU4-TS-28-05	1421	93									
CCV02	CCV02	1424	86									
CCB02	CCB02	1432	94									

Internal Standard %RI Limit: 30 -120

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

OU4-TS-28-050725L

Lab Name: Chemtech Consulting Group **Contract:** NOBI03

Lab Code: CHEM **Lb No.:** lb135893 **Lab Sample ID :** Q1984-16L **SDG No.:** Q1984

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	10.0	UD	50.0	UD			P
Arsenic	24.5	D	28.0	D	15		P
Barium	114	D	120	JD	4		P
Beryllium	13.6	D	14.5	JD	7		P
Cadmium	9.85	D	25.0	UD	29		P
Chromium	41.9	D	41.8	JD	0		P
Copper	298	D	303	D	2		P
Lead	35.6	D	36.8	D	3		P
Nickel	234	D	241	D	3		P
Mercury	0.20	U	1.00	U			CV
Selenium	25.0	UD	125	UD			P
Silver	5.00	UD	25.0	UD			P
Thallium	0.85	JD	25.0	UD	18		P
Vanadium	69.1	D	72.0	JD	4		P
Zinc	1810	D	1840	D	2		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Method:**

Case No.: Q1984 **SAS No.:** Q1984

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167960**						
PB167960BL	PB167960BL	MB	WATER	05/12/2025	50.0	50.0	
PB167960BS	PB167960BS	LCS	WATER	05/12/2025	50.0	50.0	
PB167960TB	PB167960TB	MB	WATER	05/12/2025	50.0	50.0	
Q1984-02	OU4-PCS-TC-33-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-04	OU4-PCS-TC-34-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-06	OU4-PCS-TC-35-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-08	OU4-TS-24-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-10	OU4-TS-25-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-12	OU4-TS-26-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-14	OU4-TS-27-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-16	OU4-TS-28-050725	SAM	WATER	05/12/2025	50.0	50.0	
Q1984-16DUP	OU4-TS-28-050725DUP	DUP	WATER	05/12/2025	50.0	50.0	
Q1984-16MS	OU4-TS-28-050725MS	MS	WATER	05/12/2025	50.0	50.0	
Q1984-16MSD	OU4-TS-28-050725MSD	MSD	WATER	05/12/2025	50.0	50.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q1984

Contract: NOBI03 **Lab Code:** CHEM **Method:**

Case No.: Q1984 **SAS No.:** Q1984

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167978**						
PB167978BL	PB167978BL	MB	WATER	05/13/2025	30.0	30.0	
PB167978BS	PB167978BS	LCS	WATER	05/13/2025	30.0	30.0	
PB167978TB	PB167978TB	MB	WATER	05/13/2025	30.0	30.0	
Q1984-02	OU4-PCS-TC-33-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-04	OU4-PCS-TC-34-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-06	OU4-PCS-TC-35-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-08	OU4-TS-24-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-10	OU4-TS-25-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-12	OU4-TS-26-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-14	OU4-TS-27-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-16	OU4-TS-28-050725	SAM	WATER	05/13/2025	30.0	30.0	
Q1984-16DUP	OU4-TS-28-050725DUP	DUP	WATER	05/13/2025	30.0	30.0	
Q1984-16MS	OU4-TS-28-050725MS	MS	WATER	05/13/2025	30.0	30.0	
Q1984-16MSD	OU4-TS-28-050725MSD	MSD	WATER	05/13/2025	30.0	30.0	

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1984 **Sas no.:** Q1984 **Sdg no.:** Q1984

Instrument id number: **Method:** **Run number:** LB135763

Start date: 05/14/2025 **End date:** 05/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1127	HG
S0.2	S0.2	1	1130	HG
S2.5	S2.5	1	1132	HG
S5	S5	1	1134	HG
S7.5	S7.5	1	1136	HG
S10	S10	1	1139	HG
ICV08	ICV08	1	1142	HG
ICB08	ICB08	1	1144	HG
CCV22	CCV22	1	1146	HG
CCB22	CCB22	1	1151	HG
CRA	CRA	1	1154	HG
PB167978BL	PB167978BL	1	1203	HG
PB167978BS	PB167978BS	1	1205	HG
Q1984-02	OU4-PCS-TC-33-050725	1	1208	HG
Q1984-04	OU4-PCS-TC-34-050725	1	1210	HG
Q1984-06	OU4-PCS-TC-35-050725	1	1212	HG
Q1984-08	OU4-TS-24-050725	1	1215	HG
Q1984-10	OU4-TS-25-050725	1	1217	HG
CCV23	CCV23	1	1224	HG
CCB23	CCB23	1	1226	HG
Q1984-12	OU4-TS-26-050725	1	1229	HG
Q1984-14	OU4-TS-27-050725	1	1231	HG
Q1984-16	OU4-TS-28-050725	1	1233	HG
Q1984-16DUP	OU4-TS-28-050725DUP	1	1235	HG
Q1984-16MS	OU4-TS-28-050725MS	1	1238	HG
Q1984-16MSD	OU4-TS-28-050725MSD	1	1240	HG
CCV24	CCV24	1	1251	HG
CCB24	CCB24	1	1254	HG
CCV25	CCV25	1	1328	HG
CCB25	CCB25	1	1330	HG
CCV26	CCV26	1	1355	HG
CCB26	CCB26	1	1357	HG
CCV27	CCV27	1	1423	HG
CCB27	CCB27	1	1425	HG
PB167978TB	PB167978TB	1	1434	HG
CCV28	CCV28	1	1439	HG
CCB28	CCB28	1	1441	HG
Q1984-16L	OU4-TS-28-050725L	5	1443	HG
Q1984-16A	OU4-TS-28-050725A	1	1445	HG
CCV29	CCV29	1	1457	HG
CCB29	CCB29	1	1459	HG

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1984 **Sas no.:** Q1984 **Sdg no.:** Q1984

Instrument id number: **Method:** **Run number:** LB135886

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1353	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1400	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1403	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1407	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1409	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1412	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1415	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1418	,
ICV01	ICV01	1	1430	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1433	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1437	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1440	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1443	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1451	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1457	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1500	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167960BL	PB167960BL	1	1531	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167960BS	PB167960BS	1	1534	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167960TB	PB167960TB	1	1537	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-02	OU4-PCS-TC-33-050725	5	1540	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-04	OU4-PCS-TC-34-050725	5	1543	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-06	OU4-PCS-TC-35-050725	5	1546	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-08	OU4-TS-24-050725	5	1550	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-10	OU4-TS-25-050725	5	1553	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-12	OU4-TS-26-050725	5	1556	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1559	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1605	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-14	OU4-TS-27-050725	5	1609	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1657	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1728	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1804	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1816	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1984 **Sas no.:** Q1984 **Sdg no.:** Q1984

Instrument id number: **Method:** **Run number:** LB135893

Start date: 05/22/2025 **End date:** 05/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1227	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1230	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1237	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1241	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1244	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1248	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1250	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1253	,
ICV01	ICV01	1	1326	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1333	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1340	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1344	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1347	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1350	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1354	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1401	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16	OU4-TS-28-050725	5	1405	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16DUP	OU4-TS-28-050725DUP	5	1408	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16L	OU4-TS-28-050725L	25	1411	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16MS	OU4-TS-28-050725MS	5	1415	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16MSD	OU4-TS-28-050725MSD	5	1418	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1984-16A	OU4-TS-28-050725A	5	1421	Ag,As
CCV02	CCV02	1	1424	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1432	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

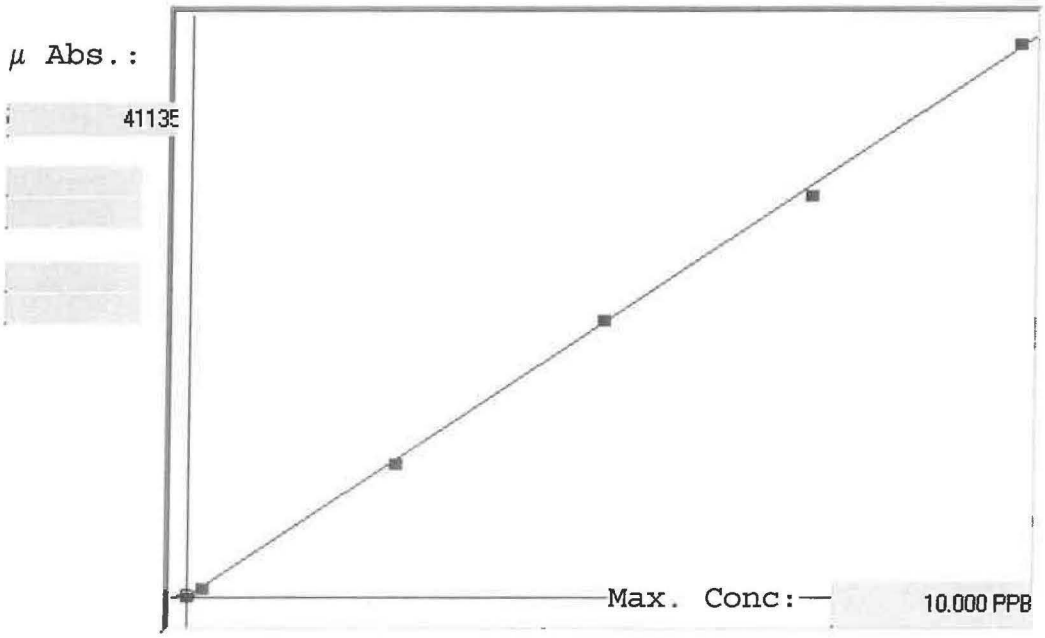
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On:5/15/2025 1:45:56 PM
Inst Id :CV1
LB :LB135763

LB135763

7470A

INSTRUMENT ID: CV1

Linear



A=	0.0000e+000
B=	2.4518e-004
C=	1.9495e-003
Rho=	0.9997109
Accept=	Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	0.048	0.048	187	0.000	187	0				
0.2	0.200	0.180	-0.020	725	0.0 %	725					-10
2.5	2.500	2.468	-0.032	10059	0.0 %	10059					-1
5.0	5.000	5.086	0.086	20735	0.0 %	20735					2
7.5	7.500	7.331	-0.169	29893	0.0 %	29893					-2
10.0	10.000	10.087	0.087	41135	0.0 %	41135					1

Reviewed By:jaswal
On:5/15/2025 1:45:56 PM
Inst Id :CV1
LB :LB135763

LB135763 INSTRUMENT IDDDDDD : CV1

Method: 7470A Operator: Admin Date of Analysis: 14 May 2025 11:18:17

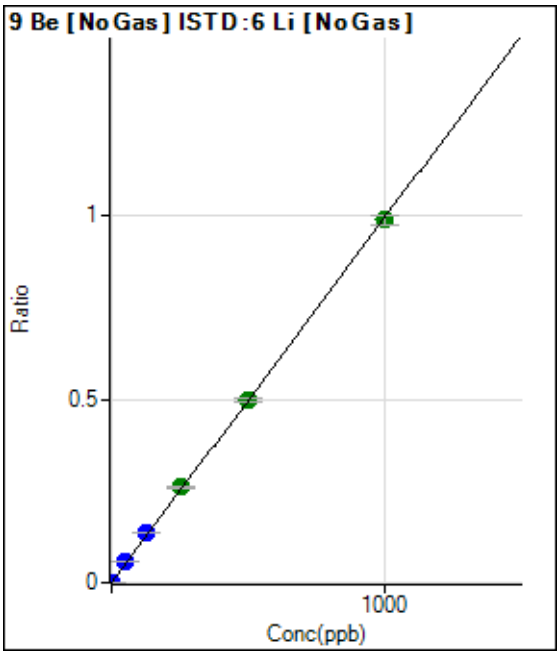
Sample ID	Extended ID	µ Abs	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	187	-	0.00000	7470A	PPB	14 May 2025 11:27:45	S	Std
0.2 - 1	S0.2	725	-	0.20000	7470A	PPB	14 May 2025 11:30:02	S	Std
2.5 - 1	S2.5	10059	-	2.50000	7470A	PPB	14 May 2025 11:32:19	S	Std
5.0 - 1	S5	20735	-	5.00000	7470A	PPB	14 May 2025 11:34:36	S	Std
7.5 - 1	S7.5	29893	-	7.50000	7470A	PPB	14 May 2025 11:36:54	S	Std
10.0 - 1	S10	41135	-	10.00000	7470A	PPB	14 May 2025 11:39:12	S	Std
ICV08 - 1	ICV08	15099	3.7039		7470A	PPB	14 May 2025 11:42:26	U	SMPL
ICB08 - 1	ICB08	-412	-0.0991		7470A	PPB	14 May 2025 11:44:41	U	SMPL
CCV22 - 1	CCV22	20283	4.9749		7470A	PPB	14 May 2025 11:46:59	U	SMPL
CCB22 - 1	CCB22	-88	-0.0196		7470A	PPB	14 May 2025 11:51:58	U	SMPL
CRA - 1	CRA	715	0.1773		7470A	PPB	14 May 2025 11:54:13	U	SMPL
HighStd - 1	HighStd	42086	10.3206		7470A	PPB	14 May 2025 11:56:28	U	SMPL
ChkStd - 1	ChkStd	28629	7.0212		7470A	PPB	14 May 2025 11:58:44	U	SMPL
PB167978BL - 1	PBW	122	0.0319		7470A	PPB	14 May 2025 12:03:42	U	SMPL
PB167978BS - 1	LCSW	15053	3.6926		7470A	PPB	14 May 2025 12:05:57	U	SMPL
Q1984-02 - 1	OU4-PCS-TC-33-050725	1077	0.2660		7470A	PPB	14 May 2025 12:08:14	U	SMPL
Q1984-04 - 1	OU4-PCS-TC-34-050725	72	0.0196		7470A	PPB	14 May 2025 12:10:32	U	SMPL
Q1984-06 - 1	OU4-PCS-TC-35-050725	208	0.0529		7470A	PPB	14 May 2025 12:12:52	U	SMPL
Q1984-08 - 1	OU4-TS-24-050725	-78	-0.0172		7470A	PPB	14 May 2025 12:15:10	U	SMPL
Q1984-10 - 1	OU4-TS-25-050725	12	0.0049		7470A	PPB	14 May 2025 12:17:26	U	SMPL
CCV23 - 1	CCV23	22186	5.4415		7470A	PPB	14 May 2025 12:24:36	U	SMPL
CCB23 - 1	CCB23	-370	-0.0888		7470A	PPB	14 May 2025 12:26:51	U	SMPL
Q1984-12 - 1	OU4-TS-26-050725	-30	-0.0054		7470A	PPB	14 May 2025 12:29:09	U	SMPL
Q1984-14 - 1	OU4-TS-27-050725	-20	-0.0030		7470A	PPB	14 May 2025 12:31:24	U	SMPL
Q1984-16 - 1	OU4-TS-28-050725	78	0.0211		7470A	PPB	14 May 2025 12:33:40	U	SMPL
Q1984-16DUP - 1	OU4-TS-28-050725DUP	5	0.0032		7470A	PPB	14 May 2025 12:35:56	U	SMPL
Q1984-16MS - 1	OU4-TS-28-050725MS	15325	3.7593		7470A	PPB	14 May 2025 12:38:12	U	SMPL
Q1984-16MSD - 1	OU4-TS-28-050725MSD	13098	3.2133		7470A	PPB	14 May 2025 12:40:29	U	SMPL
PB167979BL - 1	PBW	-220	-0.0520		7470A	PPB	14 May 2025 12:42:47	U	SMPL
PB167979BS - 1	LCSW	18371	4.5061		7470A	PPB	14 May 2025 12:45:06	U	SMPL
Q2001-03 - 1	WC-A4-03-C	-291	-0.0694		7470A	PPB	14 May 2025 12:47:24	U	SMPL
Q2001-07 - 1	WC-A1-05-C	-29	-0.0052		7470A	PPB	14 May 2025 12:49:42	U	SMPL
CCV24 - 1	CCV24	22434	5.5023		7470A	PPB	14 May 2025 12:51:58	U	SMPL
CCB24 - 1	CCB24	-345	-0.0826		7470A	PPB	14 May 2025 12:54:13	U	SMPL
Q2001-11 - 1	WC-A1-06-C	-40	-0.0079		7470A	PPB	14 May 2025 12:56:32	U	SMPL
Q2001-15 - 1	WC-A1-07-C	-24	-0.0039		7470A	PPB	14 May 2025 12:58:47	U	SMPL
Q2004-02 - 1	VNJ-220	44	0.0127		7470A	PPB	14 May 2025 13:01:03	U	SMPL
Q2004-04 - 1	2811	37	0.0110		7470A	PPB	14 May 2025 13:03:19	U	SMPL
Q2004-06 - 1	R0202	27	0.0086		7470A	PPB	14 May 2025 13:05:35	U	SMPL
Q2004-08 - 1	205510	73	0.0198		7470A	PPB	14 May 2025 13:07:51	U	SMPL
Q2004-10 - 1	SOIL-STOCK	91	0.0243		7470A	PPB	14 May 2025 13:10:07	U	SMPL
Q2004-12 - 1	STONE-STOCK	64	0.0176		7470A	PPB	14 May 2025 13:12:24	U	SMPL
Q2007-06 - 1	OR-636-COMP-10	137	0.0355		7470A	PPB	14 May 2025 13:14:42	U	SMPL
Q2007-12 - 1	OR-636-COMP-11	104	0.0274		7470A	PPB	14 May 2025 13:16:57	U	SMPL
CCV25 - 1	CCV25	19664	4.8232		7470A	PPB	14 May 2025 13:28:16	U	SMPL
CCB25 - 1	CCB25	-320	-0.0765		7470A	PPB	14 May 2025 13:30:32	U	SMPL
Q2007-18 - 1	OR-636-COMP-12	20	0.0069		7470A	PPB	14 May 2025 13:32:49	U	SMPL
Q2007-24 - 1	OR-636-COMP-13	14	0.0054		7470A	PPB	14 May 2025 13:35:05	U	SMPL
Q2007-30 - 1	OR-636-COMP-14	86	0.0230		7470A	PPB	14 May 2025 13:37:21	U	SMPL
Q2007-36 - 1	OR-636-COMP-15	114	0.0299		7470A	PPB	14 May 2025 13:39:37	U	SMPL
Q2007-36DUP - 1	OR-636-COMP-15DUP	63	0.0174		7470A	PPB	14 May 2025 13:41:56	U	SMPL
Q2007-36MS - 1	OR-636-COMP-15MS	14681	3.6014		7470A	PPB	14 May 2025 13:44:14	U	SMPL
Q2007-36MSD - 1	OR-636-COMP-15MSD	13236	3.2471		7470A	PPB	14 May 2025 13:46:30	U	SMPL
Q2017-04 - 1	MH-I	-206	-0.0486		7470A	PPB	14 May 2025 13:48:49	U	SMPL
Q2017-08 - 1	MH-J	5	0.0032		7470A	PPB	14 May 2025 13:51:08	U	SMPL
PB167980BL - 1	PBW	2	0.0024		7470A	PPB	14 May 2025 13:53:24	U	SMPL
CCV26 - 1	CCV26	20973	5.1441		7470A	PPB	14 May 2025 13:55:40	U	SMPL
CCB26 - 1	CCB26	-324	-0.0775		7470A	PPB	14 May 2025 13:57:56	U	SMPL
PB167980BS - 1	LCSW	15143	3.7147		7470A	PPB	14 May 2025 14:00:14	U	SMPL
Q1970-02 - 1	TRE-25-0057	1657	0.4082		7470A	PPB	14 May 2025 14:02:30	U	SMPL
Q1980-01 - 1	3834	-172	-0.0402		7470A	PPB	14 May 2025 14:04:47	U	SMPL
Q1980-02 - 1	3832	215	0.0547		7470A	PPB	14 May 2025 14:07:05	U	SMPL
Q1980-03 - 1	3835	73	0.0198		7470A	PPB	14 May 2025 14:09:21	U	SMPL
Q1985-01 - 1	RW8-BW-20250507	14	0.0054		7470A	PPB	14 May 2025 14:11:38	U	SMPL
Q1992-01 - 1	60453	256	0.0647		7470A	PPB	14 May 2025 14:13:55	U	SMPL
Q2005-01 - 1	252806	2072	0.5100		7470A	PPB	14 May 2025 14:16:12	U	SMPL
Q2008-01 - 1	IDW-AQ-DRUM-633-05092025	326	0.0819		7470A	PPB	14 May 2025 14:18:30	U	SMPL
Q2008-01DUP - 1	IDW-AQ-DRUM-633-05092025DUP	205	0.0522		7470A	PPB	14 May 2025 14:20:46	U	SMPL
CCV27 - 1	CCV27	19215	4.7131		7470A	PPB	14 May 2025 14:23:04	U	SMPL
CCB27 - 1	CCB27	-212	-0.0500		7470A	PPB	14 May 2025 14:25:20	U	SMPL
Q2008-01MS - 1	IDW-AQ-DRUM-633-05092025MS	14528	3.5639		7470A	PPB	14 May 2025 14:27:39	U	SMPL
Q2008-01MSD - 1	IDW-AQ-DRUM-633-05092025MSD	13267	3.2548		7470A	PPB	14 May 2025 14:29:54	U	SMPL
PB167943TB - 1	PB167943TB	-298	-0.0711		7470A	PPB	14 May 2025 14:32:13	U	SMPL
~~PB167933TB - 1~~ PB167978TB	~~PB167933TB~~ PB167978TB	-6	0.0005		7470A	PPB	14 May 2025 14:34:31	U	SMPL
PB167963TB - 1	PB167963TB	44	0.0127		7470A	PPB	14 May 2025 14:36:47	U	SMPL
CCV28 - 1	CCV28	19581	4.8028		7470A	PPB	14 May 2025 14:39:04	U	SMPL
CCB28 - 1	CCB28	-220	-0.0520		7470A	PPB	14 May 2025 14:41:20	U	SMPL
Q1984-16LX5 - 1		-19	-0.0027		7470A	PPB	14 May 2025 14:43:38	U	SMPL
Q1984-16A - 1	MB 05/22/25	15805	3.8770		7470A	PPB	14 May 2025 14:45:56	U	SMPL
Q2007-36LX5 - 1		-191	-0.0449		7470A	PPB	14 May 2025 14:48:11	U	SMPL
Q2007-36A - 1		15610	3.8292		7470A	PPB	14 May 2025 14:50:29	U	SMPL
Q2008-01LX5 - 1		-83	-0.0184		7470A	PPB	14 May 2025 14:52:47	U	SMPL
Q2008-01A - 1		15717	3.8554		7470A	PPB	14 May 2025 14:55:04	U	SMPL
CCV29 - 1	CCV29	21014	5.1542		7470A	PPB	14 May 2025 14:57:20	U	SMPL
CCB29 - 1	CCB29	-291	-0.0694		7470A	PPB	14 May 2025 14:59:38	U	SMPL

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Batch Folder: D:\Agilent\ICPMH\1\DATA\P805225 MS.b\
Analysis File: P805225 MS.batch.bin
DA Date-Time: 2025-05-21 19:18:58
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-05-21 13:53:59
2	006CALS.d	S02	2025-05-21 14:00:39
3	007CALB.d	S03	2025-05-21 14:03:58
4	008CALS.d	S04	2025-05-21 14:07:00
5	009CALS.d	S05	2025-05-21 14:09:54
6	010CALS.d	S06	2025-05-21 14:12:43
7	011CALS.d	S07	2025-05-21 14:15:28
8	012CALS.d	S08	2025-05-21 14:18:15

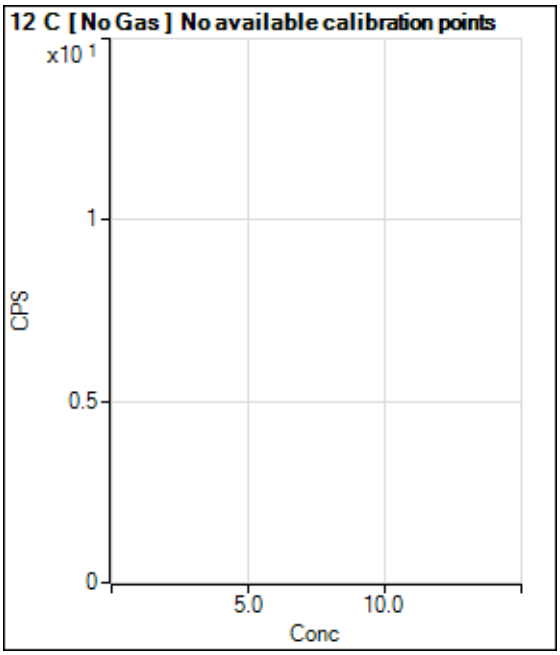
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	117.12	0.0000	P	14.5
2	☐	1.000	1.190	6282.99	0.0012	P	2.9
3	☐	50.000	56.593	296216.31	0.0563	P	1.5
4	☐	125.000	136.490	721633.23	0.1358	P	1.4
5	☐	250.000	261.923	1345674.32	0.2607	A	0.8
6	☐	500.000	501.500	2551022.99	0.4991	A	2.5
7	☐	1000.000	994.503	4829381.79	0.9896	A	2.5
8	☐			823.48	0.0002	P	19.5

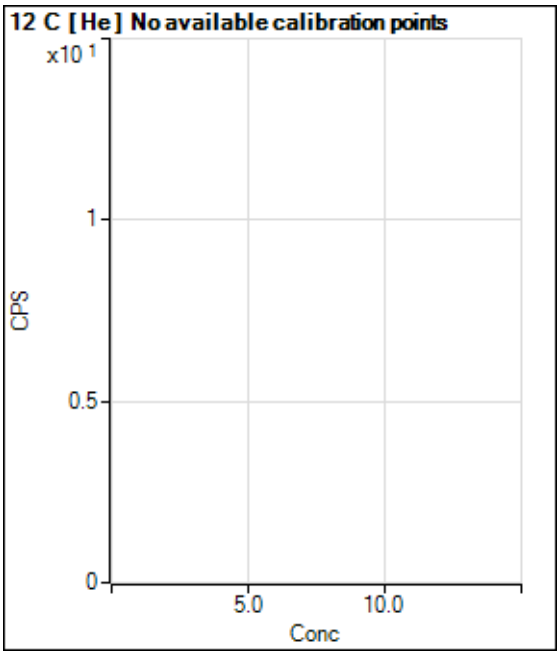
y = 9.9508E-004 * x + 2.2866E-005
R = 0.9999
DL = 0.01002
BEC = 0.02298

Weight: <None>
Min Conc: 0

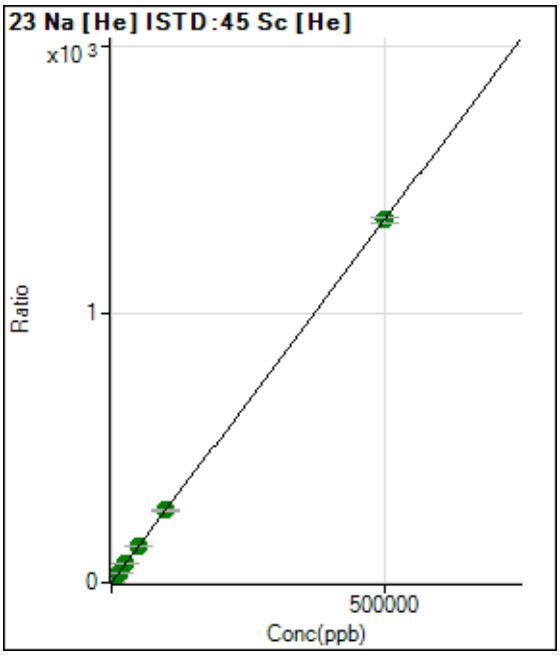


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1	☐			3871617.37		A	1.2
2	☐			3852386.71		A	1.8
3	☐			3842778.24		A	0.8
4	☐			3798226.92		A	0.5
5	☐			3707739.46		A	1.0
6	☐			3693026.68		A	1.0
7	☐			3802684.28		A	0.5
8	☐			3500215.99		A	0.8

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			29756.83		P	1.7
2	☐			29647.73		P	1.1
3	☐			29852.57		P	0.3
4	☐			29612.08		P	1.5
5	☐			29076.57		P	0.2
6	☐			29903.77		P	2.0
7	☐			31495.94		P	0.6
8	☐			35673.22		P	0.3

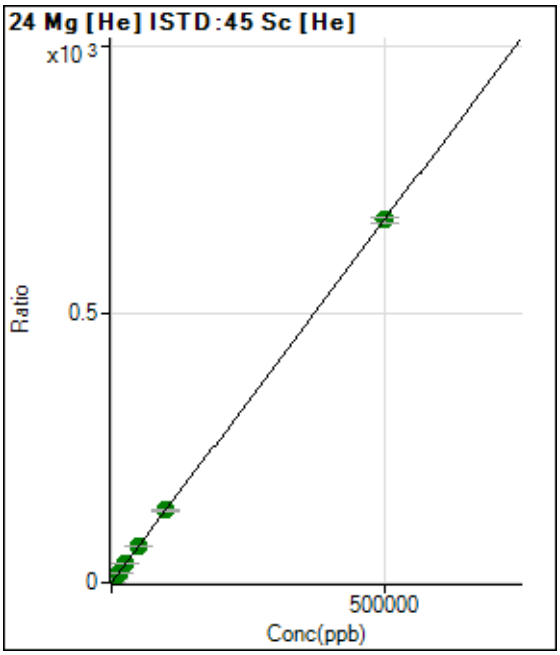


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1	☐	0.000	0.000	28614.76	0.1417	P	0.6
2	☐	500.000	499.844	304640.53	1.4930	P	1.6
3	☐	5000.000	5202.898	2828937.91	14.2082	A	0.5
4	☐	12500.000	12690.678	6761645.87	34.4522	A	1.9
5	☐	25000.000	25799.111	13267193.00	69.8922	A	1.5
6	☐	50000.000	49886.801	25421659.90	135.0158	A	1.9
7	☐	100000.00	99410.439	49763380.37	268.9080	A	0.7
8	☐	500000.00	500082.48	231820623.2	1,352.166	A	1.4

y = 0.0027 * x + 0.1417
R = 1.0000
DL = 0.8668
BEC = 52.4

Weight: <None>
Min Conc: 0

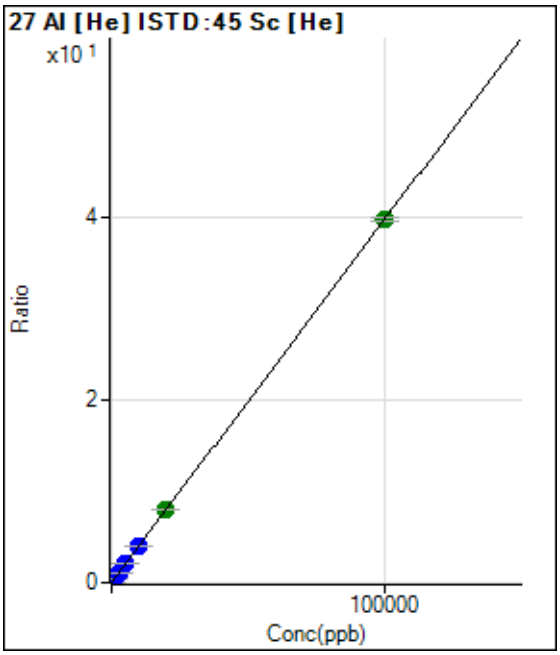
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.90	0.0020	P	13.7
2	☐	500.000	522.541	144602.67	0.7087	P	1.2
3	☐	5000.000	5286.523	1423841.39	7.1512	A	0.6
4	☐	12500.000	12869.881	3416092.17	17.4064	A	2.2
5	☐	25000.000	26101.815	6700818.86	35.3004	A	0.7
6	☐	50000.000	50414.139	12837013.00	68.1788	A	1.7
7	☐	100000.00	99815.155	24979582.40	134.9854	A	1.1
8	☐	500000.00	499928.33	115899398.2	676.0719	A	1.7

y = 0.0014 * x + 0.0020
R = 1.0000
DL = 0.6174
BEC = 1.497

Weight: <None>
Min Conc: 0

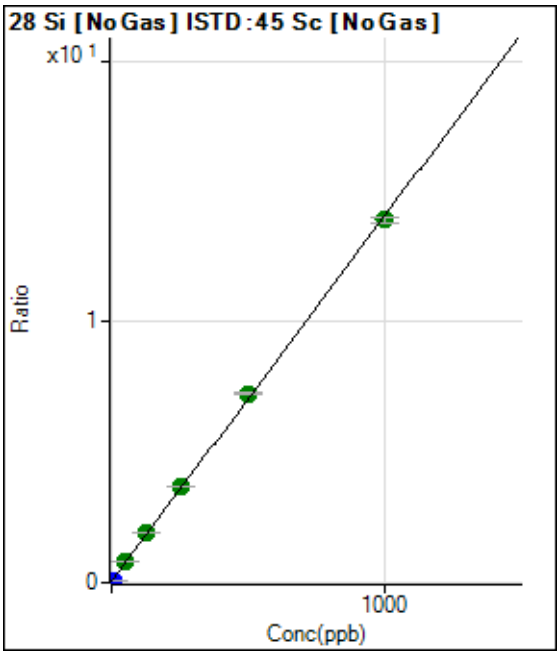


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1	☐	0.000	0.000	156.67	0.0008	P	8.8
2	☐	20.000	19.443	1737.90	0.0085	P	2.0
3	☐	1000.000	1048.624	83297.17	0.4184	P	0.6
4	☐	2500.000	2588.256	202436.71	1.0315	P	1.1
5	☐	5000.000	5217.059	394503.44	2.0783	P	1.0
6	☐	10000.000	10121.408	758915.86	4.0313	P	2.7
7	☐	20000.000	20185.106	1487664.16	8.0388	A	0.9
8	☐	100000.00	99937.292	6822680.31	39.7974	A	1.2

y = 3.9822E-004 * x + 7.7533E-004
R = 1.0000
DL = 0.5115
BEC = 1.947

Weight: <None>
Min Conc: 0

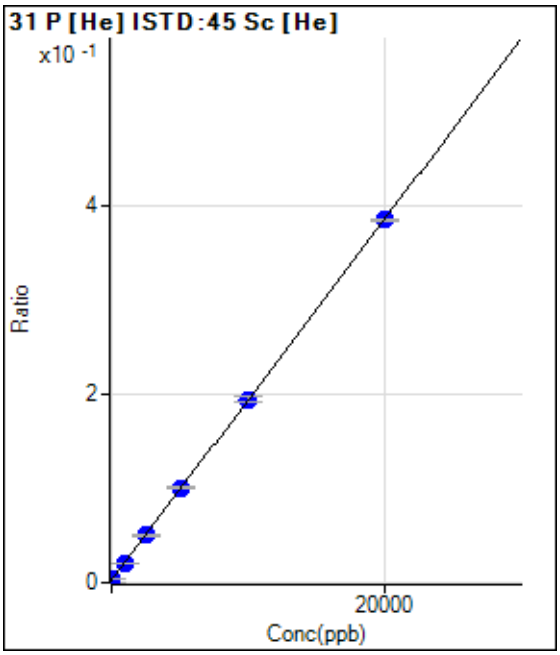
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	577385.62	0.0545	P	2.5
2	☐	10.000	0.665	677101.87	0.0638	P	2.5
3	☐	50.000	52.616	8249098.56	0.7912	A	1.6
4	☐	125.000	132.222	19376668.18	1.9058	A	1.9
5	☐	250.000	261.243	36821069.45	3.7122	A	0.3
6	☐	500.000	512.923	69936313.96	7.2361	A	1.2
7	☐	1000.000	989.787	131716096.9	13.9128	A	1.6
8	☐			617787.86	0.0698	M	8.9

y = 0.0140 * x + 0.0545
R = 0.9997
DL = 0.2904
BEC = 3.892

Weight: <None>
Min Conc: 0

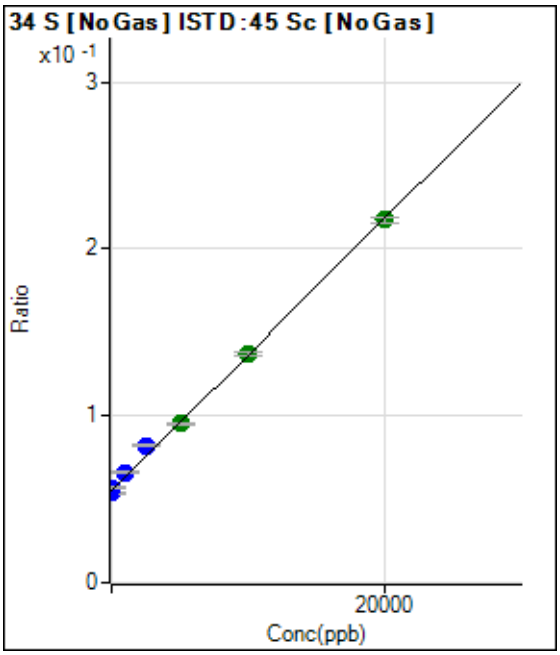


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-118.974	67.78	0.0003	P	24.1
2	☐	0.000	118.974	996.71	0.0049	P	3.6
3	☐	1000.000	917.736	4013.93	0.0202	P	4.3
4	☐	2500.000	2483.169	9832.29	0.0501	P	1.4
5	☐	5000.000	5126.291	19103.77	0.1006	P	1.9
6	☐	10000.000	10023.586	36576.03	0.1943	P	2.8
7	☐	20000.000	19962.851	71128.73	0.3844	P	0.7
8	☐			78.89	0.0005	P	13.1

y = 1.9123E-005 * x + 0.0026
R = 0.9999
DL = 20.33
BEC = 136.5

Weight: <None>
Min Conc: 0

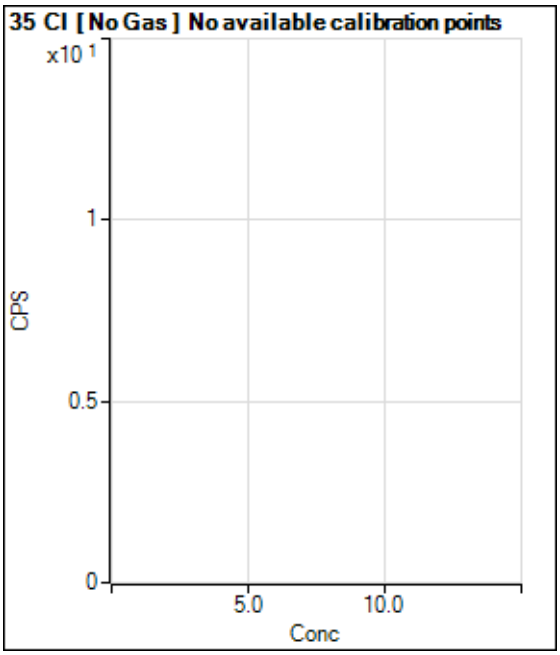
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-180.516	570080.99	0.0538	P	1.2
2	☐	0.000	180.516	602307.56	0.0568	P	2.0
3	☐	1000.000	1334.179	689850.29	0.0662	P	0.8
4	☐	2500.000	3311.405	836816.88	0.0823	P	1.4
5	☐	5000.000	4915.406	946097.26	0.0954	A	0.8
6	☐	10000.000	10057.749	1327422.62	0.1373	A	1.4
7	☐	20000.000	19874.140	2058518.49	0.2174	A	1.7
8	☐			434007.61	0.0490	P	0.6

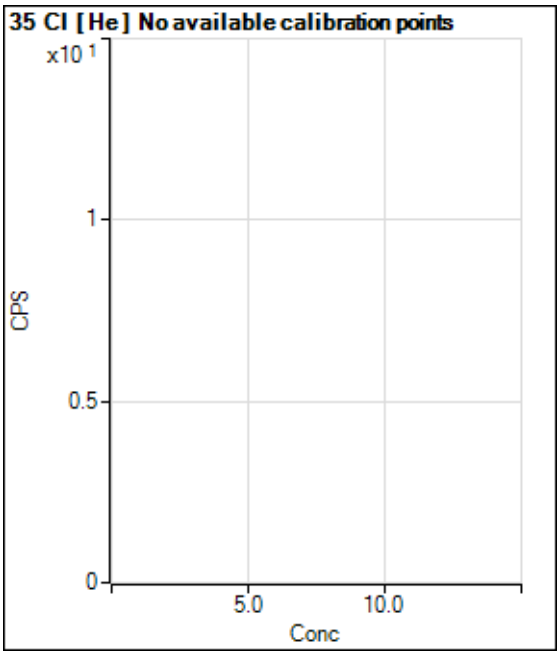
y = 8.1591E-006 * x + 0.0553
R = 0.9990
DL = 329.6
BEC = 6776

Weight: <None>
Min Conc: 0

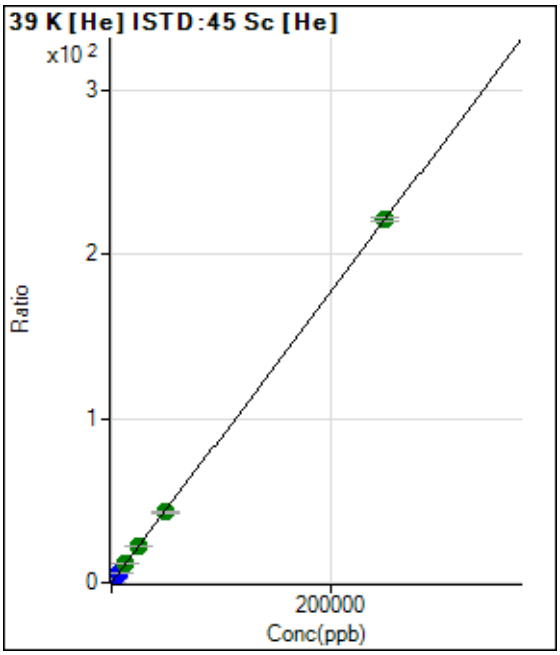


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1	☐			109309.69		P	0.4
2	☐			110206.35		P	0.9
3	☐			119128.42		P	0.5
4	☐			119590.91		P	0.6
5	☐			124465.92		P	0.7
6	☐			139148.80		P	1.3
7	☐			167405.77		P	2.6
8	☐			112963.12		P	0.9

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			428.90		P	10.6
2	☐			394.45		P	5.4
3	☐			483.35		P	4.8
4	☐			465.57		P	7.7
5	☐			441.12		P	4.4
6	☐			554.46		P	1.5
7	☐			666.69		P	13.4
8	☐			492.24		P	6.4

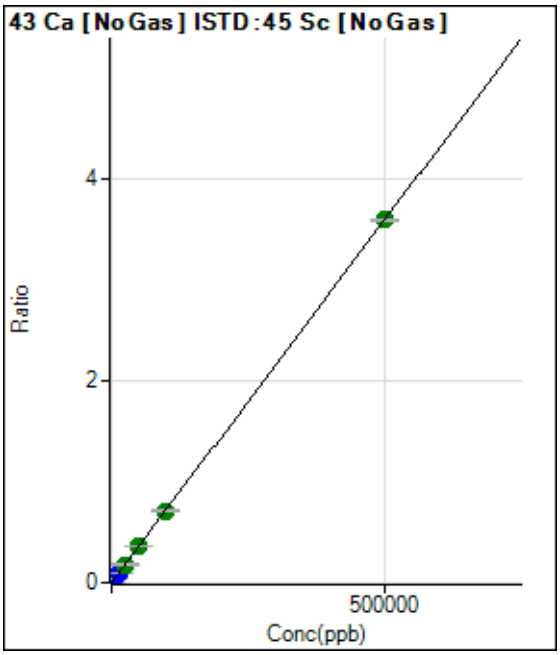


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13718.81	0.0679	P	1.1
2	☐	500.000	487.881	101731.93	0.4986	P	2.0
3	☐	2500.000	2567.030	464684.10	2.3339	P	0.7
4	☐	6250.000	6352.559	1113936.58	5.6756	P	0.2
5	☐	12500.000	12782.289	2154739.59	11.3513	A	0.4
6	☐	25000.000	24706.928	4119978.65	21.8777	A	0.7
7	☐	50000.000	48420.785	7922510.86	42.8108	A	1.5
8	☐	250000.00	250327.82	37895397.49	221.0421	A	1.2

y = 8.8274E-004 * x + 0.0679
R = 1.0000
DL = 2.56
BEC = 76.93

Weight: <None>
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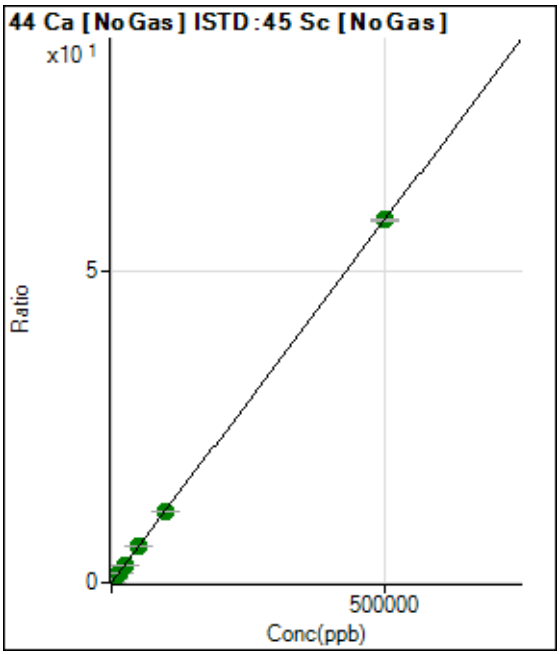
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1	☐	0.000	0.000	881.15	0.0001	P	3.5
2	☐	500.000	483.562	37766.21	0.0036	P	3.2
3	☐	5000.000	5117.017	384315.78	0.0369	P	1.4
4	☐	12500.000	12676.074	927348.50	0.0912	P	0.6
5	☐	25000.000	25059.287	1787246.31	0.1802	A	1.9
6	☐	50000.000	50023.071	3475556.37	0.3596	A	1.4
7	☐	100000.00	99035.490	6740661.01	0.7119	A	1.3
8	☐	500000.00	500182.07	31835906.75	3.5953	A	0.2

y = 7.1878E-006 * x + 8.3178E-005
R = 1.0000
DL = 1.206
BEC = 11.57

Weight: <None>
Min Conc: 0

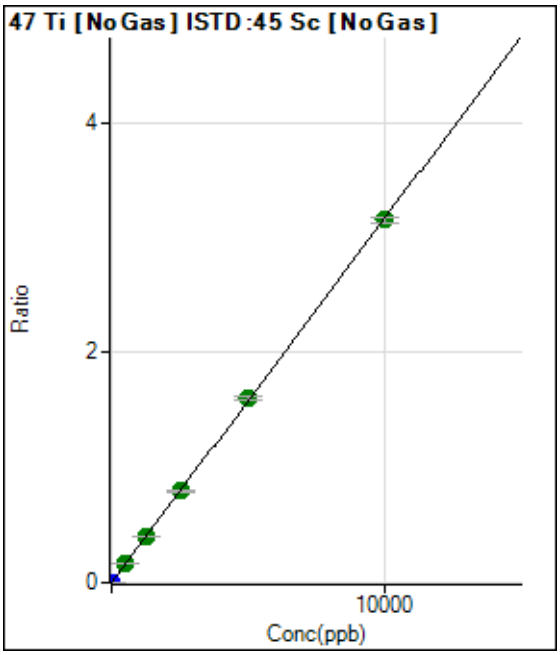


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29104.95	0.0027	P	1.0
2	☐	500.000	485.619	629240.72	0.0593	P	2.0
3	☐	5000.000	4980.951	6074800.12	0.5827	A	2.4
4	☐	12500.000	12342.072	14640033.39	1.4399	A	1.5
5	☐	25000.000	24628.238	28472124.29	2.8705	A	0.8
6	☐	50000.000	49670.507	55921058.61	5.7864	A	1.5
7	☐	100000.00	97888.729	107943188.3	11.4009	A	1.5
8	☐	500000.00	500477.94	516053272.3	58.2783	A	0.6

y = 1.1644E-004 * x + 0.0027
R = 1.0000
DL = 0.74
BEC = 23.59

Weight: <None>
Min Conc: 0

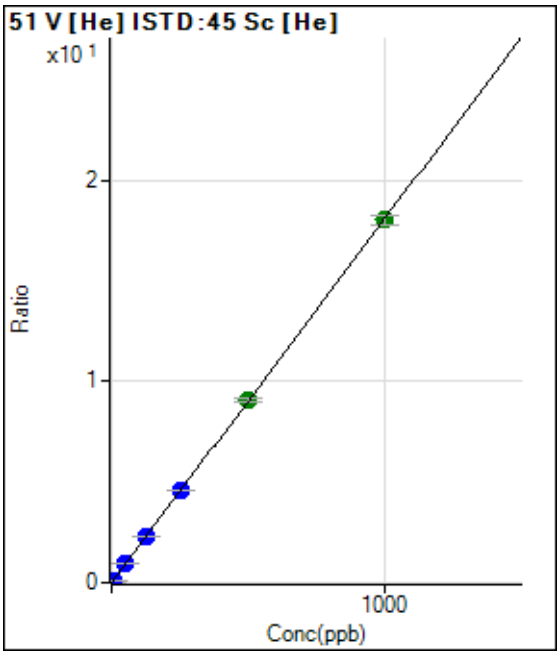
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.78	0.0000	P	5.0
2	☐	5.000	5.218	17739.95	0.0017	P	1.7
3	☐	500.000	513.106	1694506.99	0.1625	A	1.5
4	☐	1250.000	1259.314	4055609.91	0.3989	A	1.7
5	☐	2500.000	2508.580	7881140.72	0.7946	A	0.8
6	☐	5000.000	5064.113	15502030.46	1.6040	A	1.6
7	☐	10000.000	9963.979	29880390.39	3.1559	A	1.4
8	☐			2849.20	0.0003	P	6.8

y = 3.1673E-004 * x + 1.8661E-005
R = 1.0000
DL = 0.008846
BEC = 0.05892

Weight: <None>
Min Conc: 0

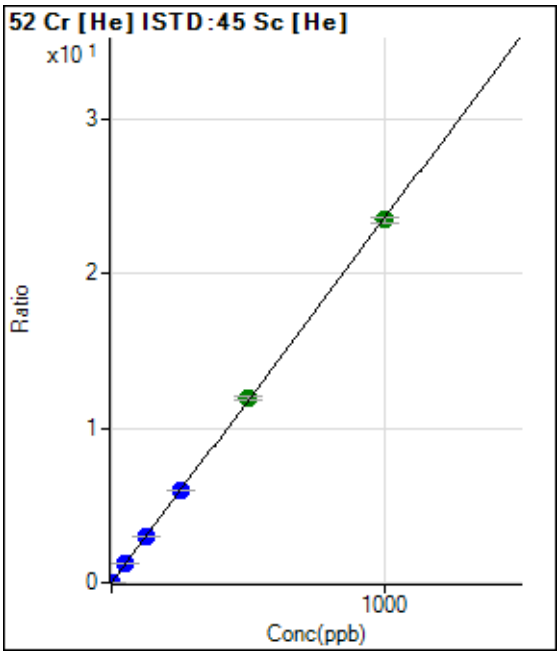


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.44	0.0001	P	47.5
2	☐	5.000	5.015	18505.39	0.0907	P	0.7
3	☐	50.000	52.158	187567.11	0.9421	P	0.5
4	☐	125.000	126.589	448729.16	2.2863	P	0.8
5	☐	250.000	253.244	868167.32	4.5736	P	1.0
6	☐	500.000	501.941	1706702.20	9.0650	A	2.6
7	☐	1000.000	997.912	3334681.13	18.0220	A	2.7
8	☐			912.26	0.0053	P	2.6

y = 0.0181 * x + 1.2080E-004
R = 1.0000
DL = 0.009524
BEC = 0.006689

Weight: <None>
Min Conc: 0

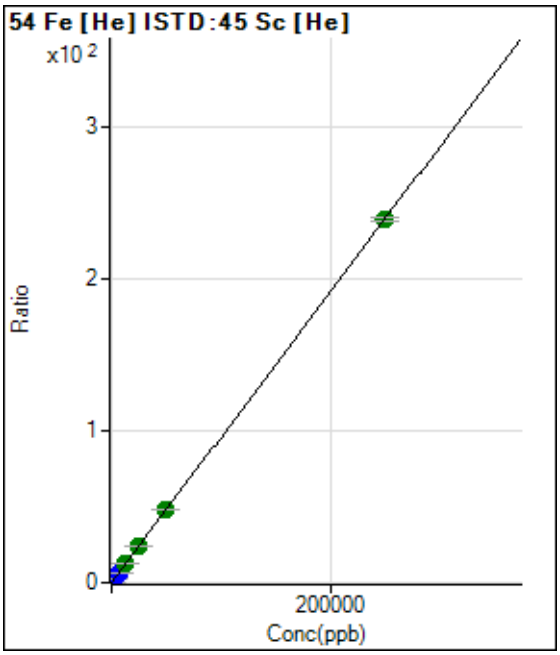
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	920.04	0.0046	P	5.6
2	☐	2.000	1.982	10458.34	0.0513	P	0.5
3	☐	50.000	52.159	245538.84	1.2332	P	0.5
4	☐	125.000	126.503	585750.58	2.9845	P	0.6
5	☐	250.000	253.879	1136078.73	5.9850	P	0.4
6	☐	500.000	506.818	2248678.82	11.9433	A	1.9
7	☐	1000.000	995.325	4339511.29	23.4506	A	1.3
8	☐			6031.33	0.0352	P	0.5

y = 0.0236 * x + 0.0046
R = 1.0000
DL = 0.03227
BEC = 0.1934

Weight: <None>
Min Conc: 0

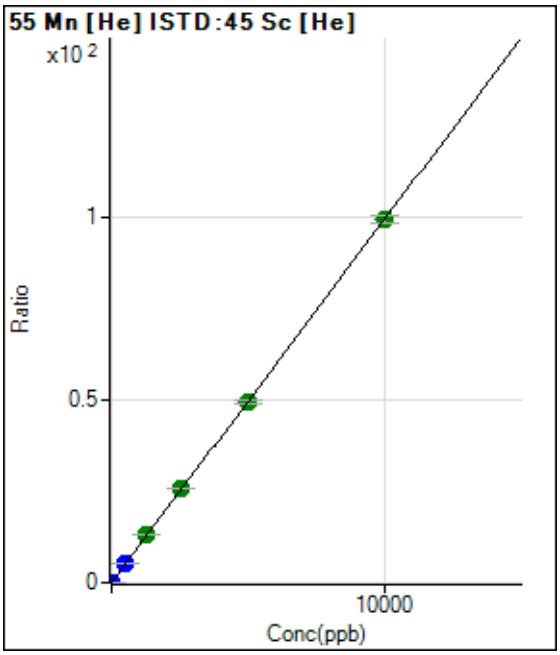


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	874.97	0.0043	P	78.5
2	☐	50.000	51.678	10969.85	0.0538	P	0.1
3	☐	2500.000	2655.057	506554.31	2.5441	P	1.1
4	☐	6250.000	6503.698	1221844.73	6.2256	P	1.1
5	☐	12500.000	13264.799	2409433.70	12.6932	A	0.8
6	☐	25000.000	25377.872	4570768.86	24.2803	A	3.0
7	☐	50000.000	50258.708	8897205.70	48.0808	A	2.1
8	☐	250000.00	249864.33	40977467.17	239.0198	A	1.0

y = 9.5658E-004 * x + 0.0043
R = 1.0000
DL = 10.64
BEC = 4.518

Weight: <None>
Min Conc: 0

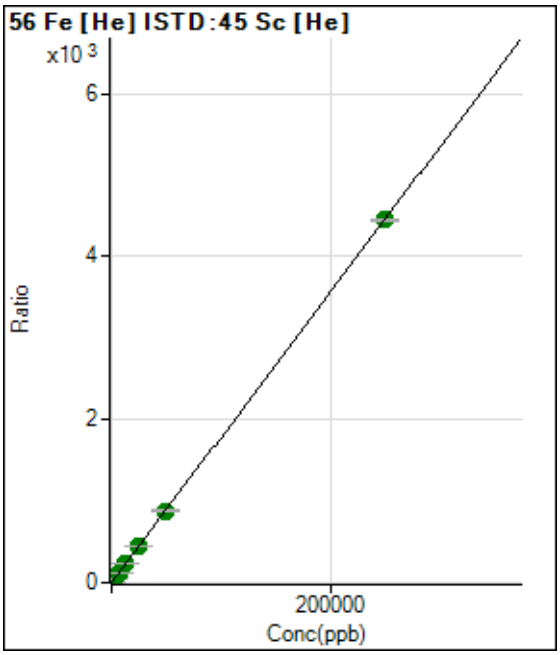
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4468.52	0.0221	P	1.9
2	☐	1.000	1.060	6666.06	0.0327	P	1.1
3	☐	500.000	519.491	1033919.90	5.1927	P	1.2
4	☐	1250.000	1303.591	2550857.11	12.9971	A	0.7
5	☐	2500.000	2595.234	4907484.20	25.8531	A	0.4
6	☐	5000.000	4965.467	9309502.99	49.4446	A	1.8
7	☐	10000.000	9985.785	18395132.51	99.4129	A	2.0
8	☐			7908.92	0.0461	P	1.2

y = 0.0100 * x + 0.0221
R = 0.9999
DL = 0.1275
BEC = 2.223

Weight: <None>
Min Conc: 0

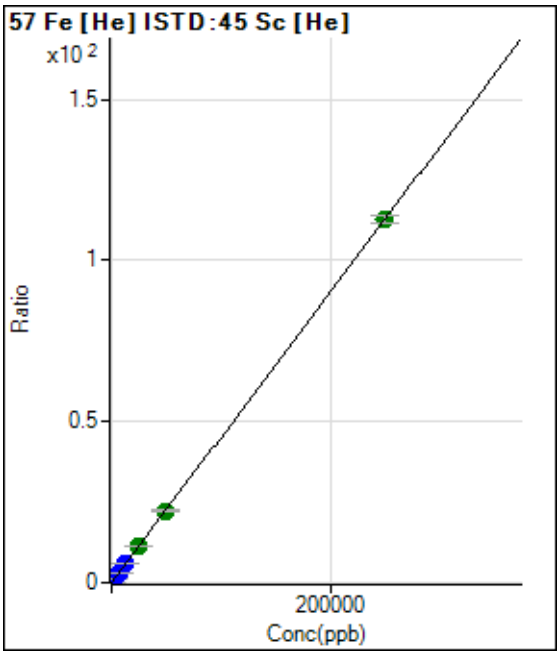


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4989.81	0.0247	P	2.1
2	☐	50.000	51.256	191171.67	0.9370	P	3.0
3	☐	2500.000	2586.051	9169902.57	46.0558	A	0.2
4	☐	6250.000	6387.404	22318301.33	113.7191	A	1.6
5	☐	12500.000	12884.355	43537966.58	229.3634	A	1.1
6	☐	25000.000	24985.823	83743863.20	444.7669	A	1.6
7	☐	50000.000	49535.251	163160446.4	881.7413	A	1.7
8	☐	250000.00	250070.85	763117188.6	4,451.231	A	0.8

y = 0.0178 * x + 0.0247
R = 1.0000
DL = 0.08893
BEC = 1.388

Weight: <None>
Min Conc: 0

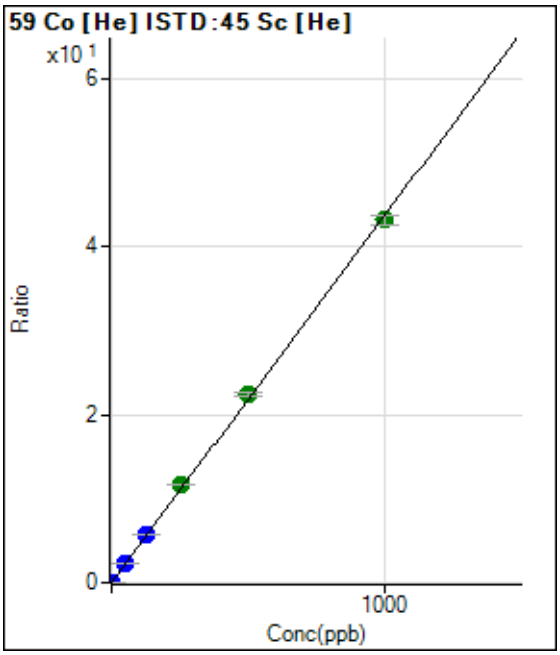
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0007	P	30.0
2	☐	50.000	52.671	4975.36	0.0244	P	5.4
3	☐	2500.000	2586.618	232014.54	1.1653	P	1.0
4	☐	6250.000	6360.166	562182.66	2.8644	P	0.7
5	☐	12500.000	12705.908	1086096.83	5.7217	P	0.5
6	☐	25000.000	25693.018	2178644.50	11.5692	A	1.0
7	☐	50000.000	49393.930	4115316.99	22.2408	A	2.3
8	☐	250000.00	250037.99	19299650.96	112.5831	A	2.1

y = 4.5026E-004 * x + 6.7580E-004
R = 1.0000
DL = 1.351
BEC = 1.501

Weight: <None>
Min Conc: 0

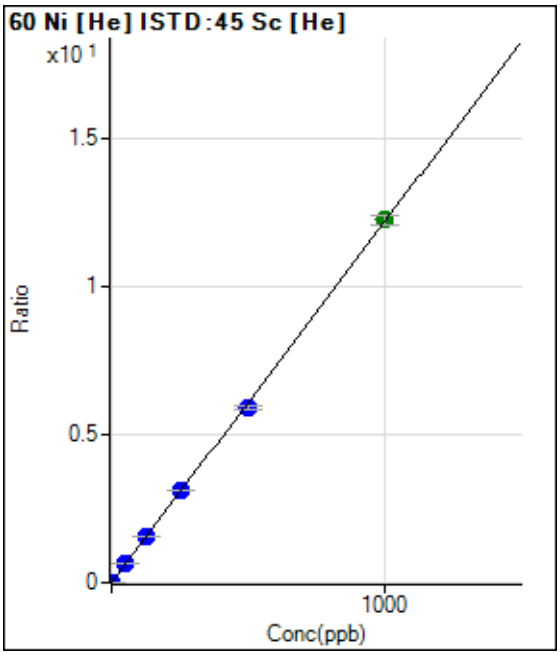


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	84.45	0.0004	P	16.5
2	☐	1.000	1.091	9810.11	0.0481	P	1.2
3	☐	50.000	53.317	464005.71	2.3305	P	1.3
4	☐	125.000	129.188	1108121.06	5.6461	P	0.9
5	☐	250.000	266.985	2214861.48	11.6681	A	0.4
6	☐	500.000	512.619	4217991.67	22.4027	A	1.9
7	☐	1000.000	988.755	7995267.80	43.2105	A	2.6
8	☐			8702.74	0.0508	P	3.8

y = 0.0437 * x + 4.1829E-004
R = 0.9997
DL = 0.004745
BEC = 0.009572

Weight: <None>
Min Conc: 0

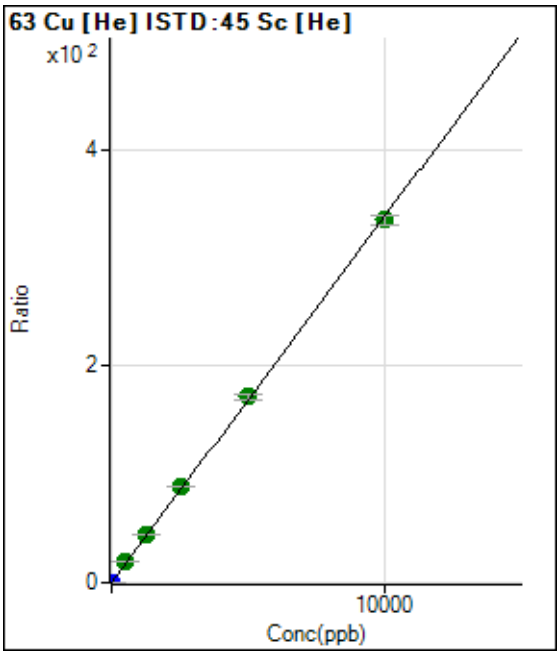
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	285.56	0.0014	P	11.4
2	☐	1.000	0.947	2643.61	0.0130	P	7.4
3	☐	50.000	52.971	128888.90	0.6473	P	0.2
4	☐	125.000	126.535	303103.06	1.5444	P	1.1
5	☐	250.000	255.407	591461.87	3.1159	P	0.3
6	☐	500.000	485.674	1115206.53	5.9238	P	2.5
7	☐	1000.000	1005.471	2268871.79	12.2622	A	2.6
8	☐			5254.36	0.0306	P	1.4

y = 0.0122 * x + 0.0014
R = 0.9998
DL = 0.03967
BEC = 0.1159

Weight: <None>
Min Conc: 0

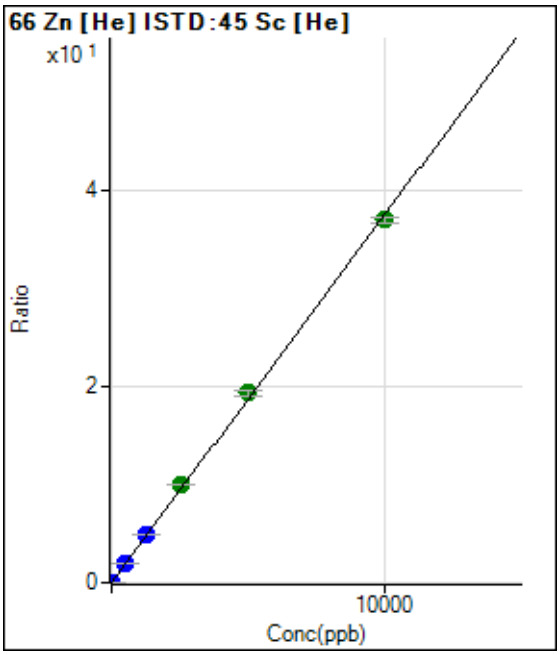


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1631.22	0.0081	P	3.5
2	☐	2.000	2.183	16702.14	0.0818	P	1.0
3	☐	500.000	564.405	3799666.78	19.0840	A	0.6
4	☐	1250.000	1320.775	8762778.83	44.6481	A	0.8
5	☐	2500.000	2646.158	16978371.97	89.4439	A	0.5
6	☐	5000.000	5074.086	32286140.35	171.5039	A	2.8
7	☐	10000.000	9914.350	62005069.63	335.0969	A	2.4
8	☐			9822.36	0.0573	P	1.3

y = 0.0338 * x + 0.0081
R = 0.9998
DL = 0.02517
BEC = 0.2389

Weight: <None>
Min Conc: 0

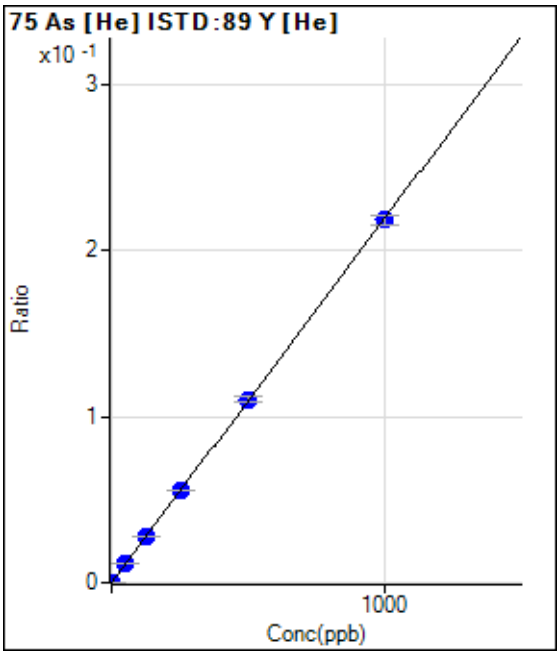
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0018	P	6.3
2	☐	2.000	5.350	4462.97	0.0219	P	5.2
3	☐	500.000	531.588	397976.69	1.9988	P	0.5
4	☐	1250.000	1289.574	951161.74	4.8464	P	1.0
5	☐	2500.000	2683.045	1913661.88	10.0813	A	0.1
6	☐	5000.000	5156.444	3647443.10	19.3733	A	2.2
7	☐	10000.000	9869.490	6861180.59	37.0791	A	1.8
8	☐			29111.02	0.1698	P	1.7

y = 0.0038 * x + 0.0018
R = 0.9996
DL = 0.08981
BEC = 0.4744

Weight: <None>
Min Conc: 0

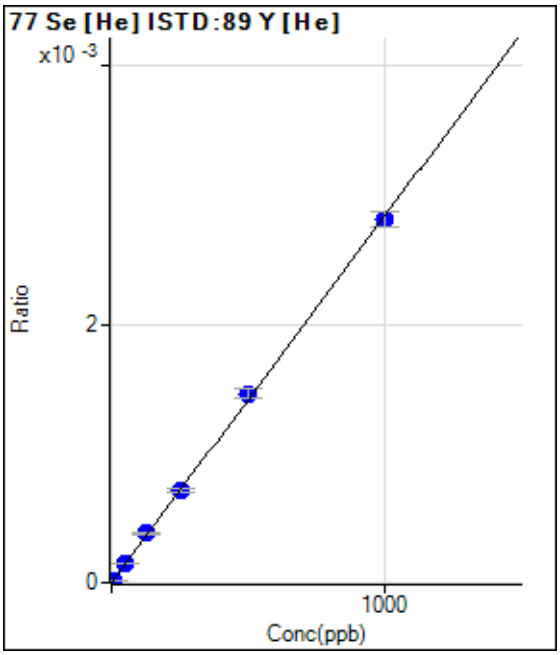


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.66	0.0000	P	86.4
2	☐	1.000	1.083	552.24	0.0002	P	3.3
3	☐	50.000	51.135	25103.53	0.0112	P	3.2
4	☐	125.000	127.485	60325.09	0.0279	P	1.7
5	☐	250.000	253.865	117004.92	0.0556	P	1.0
6	☐	500.000	504.063	226196.84	0.1104	P	2.8
7	☐	1000.000	996.635	437856.65	0.2184	P	2.5
8	☐			217.78	0.0001	P	4.6

y = 2.1910E-004 * x + 2.9401E-006
R = 1.0000
DL = 0.0348
BEC = 0.01342

Weight: <None>
Min Conc: 0

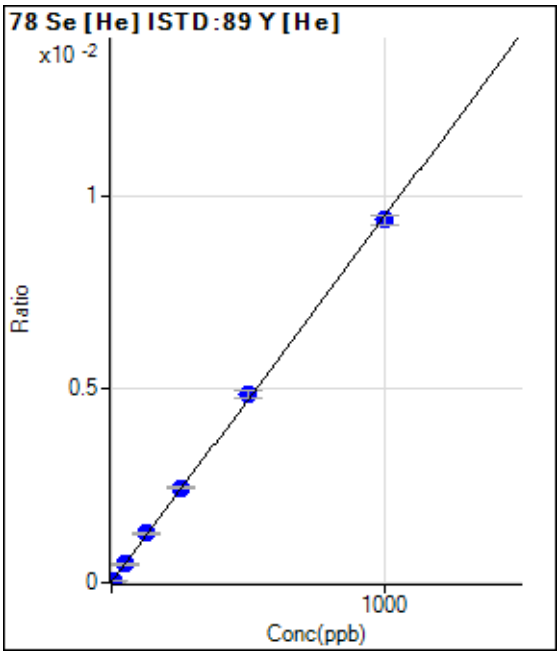
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.140	40.00	0.0000	P	9.2
3	☐	50.000	52.131	331.12	0.0001	P	2.6
4	☐	125.000	134.130	821.14	0.0004	P	4.6
5	☐	250.000	250.237	1492.32	0.0007	P	4.2
6	☐	500.000	516.310	2997.02	0.0015	P	5.1
7	☐	1000.000	990.532	5630.07	0.0028	P	4.2
8	☐			4.44	0.0000	P	43.0

y = 2.8355E-006 * x + 0.0000E+000
R = 0.9998
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

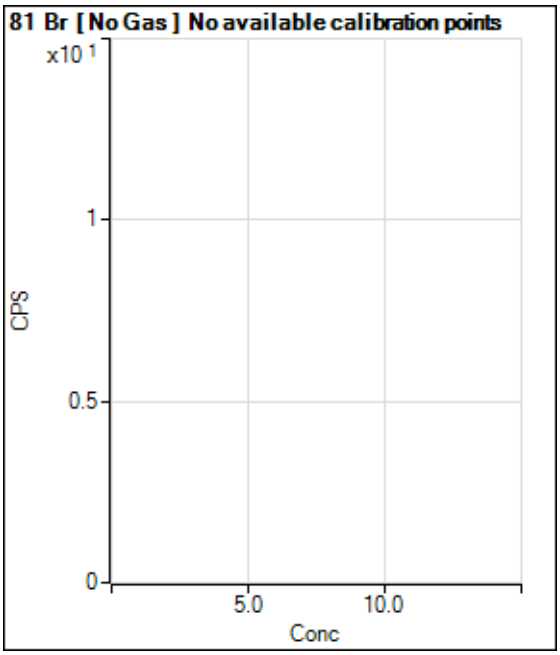


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	43.8
2	☐	5.000	4.538	118.89	0.0001	P	15.7
3	☐	50.000	49.942	1077.83	0.0005	P	8.2
4	☐	125.000	133.579	2743.63	0.0013	P	5.8
5	☐	250.000	259.058	5167.67	0.0025	P	3.5
6	☐	500.000	511.987	9923.56	0.0048	P	4.0
7	☐	1000.000	990.675	18787.14	0.0094	P	2.6
8	☐			24.45	0.0000	P	16.1

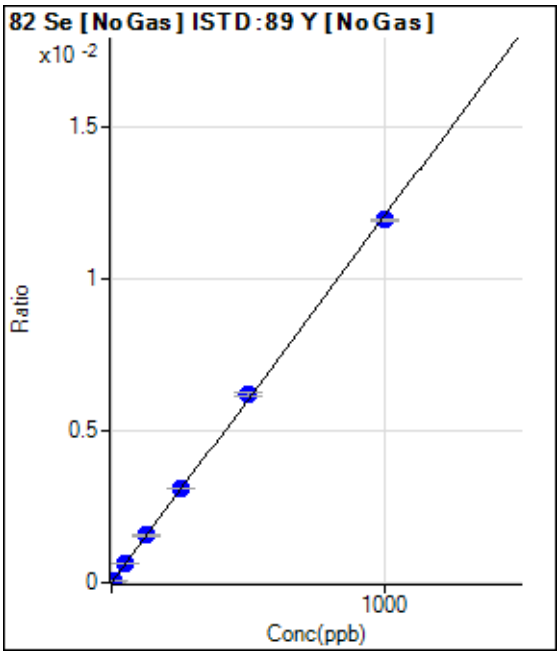
y = 9.4485E-006 * x + 8.8269E-006
R = 0.9998
DL = 1.228
BEC = 0.9342

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			32270.51		P	0.1
2	☐			31751.65		P	0.9
3	☐			31270.46		P	0.6
4	☐			29245.05		P	1.0
5	☐			28268.56		P	0.5
6	☐			28199.53		P	3.9
7	☐			27854.41		P	1.8
8	☐			26696.56		P	0.6

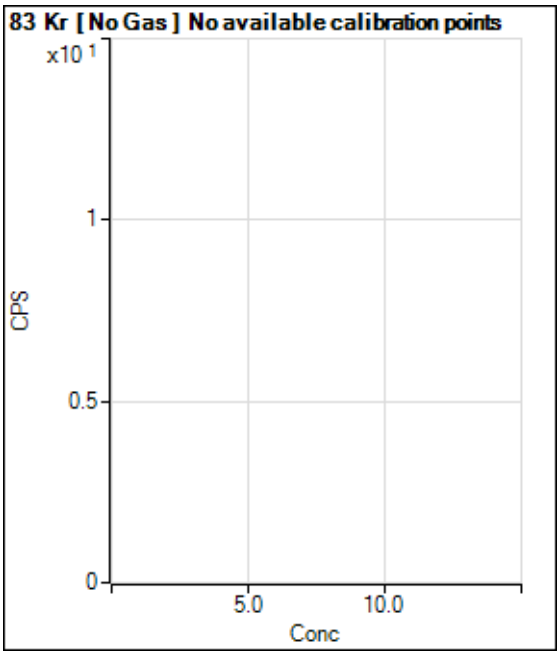


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	204.
2	☐	5.000	5.187	1903.51	0.0001	P	5.9
3	☐	50.000	52.306	18955.44	0.0006	P	2.5
4	☐	125.000	128.607	45774.23	0.0016	P	0.9
5	☐	250.000	258.458	89465.56	0.0031	P	0.8
6	☐	500.000	515.382	173819.77	0.0062	P	1.8
7	☐	1000.000	989.628	327462.77	0.0119	P	0.2
8	☐			262.23	0.0000	P	11.6

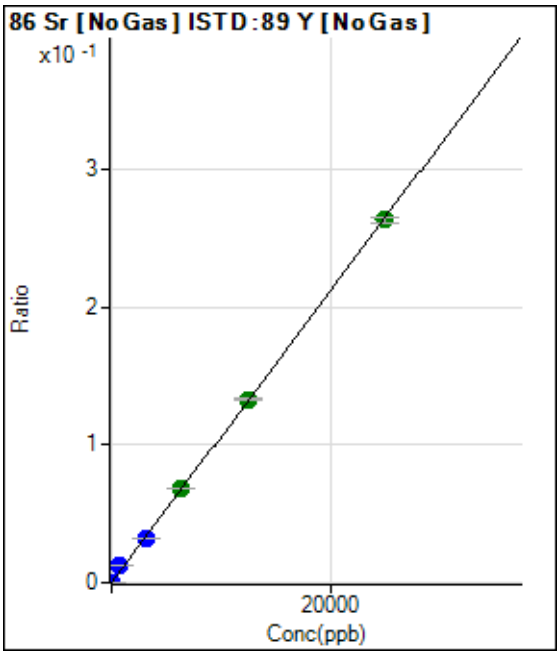
y = 1.2071E-005 * x + 3.6949E-007
R = 0.9998
DL = 0.188
BEC = 0.03061

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			261.12		P	5.2
2	☐			224.45		P	12.1
3	☐			245.56		P	3.4
4	☐			257.79		P	6.5
5	☐			223.34		P	9.0
6	☐			250.01		P	7.4
7	☐			292.23		P	15.2
8	☐			330.01		P	12.3

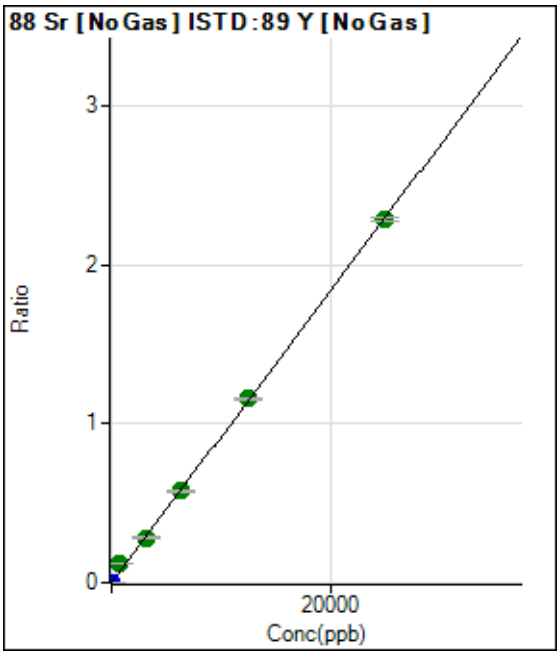


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	500.01	0.0000	P	3.6
2	☐	1.000	23.741	8095.73	0.0003	P	2.4
3	☐	625.000	1234.919	392493.41	0.0131	P	2.1
4	☐	3125.000	3054.344	953022.33	0.0323	P	0.8
5	☐	6250.000	6417.053	1947008.89	0.0679	A	0.3
6	☐	12500.000	12592.751	3722540.36	0.1332	A	0.5
7	☐	25000.000	24905.444	7223268.02	0.2635	A	1.3
8	☐			23977.31	0.0009	P	1.7

y = 1.0579E-005 * x + 1.6677E-005
R = 0.9997
DL = 0.1716
BEC = 1.577

Weight: <None>
Min Conc: 0

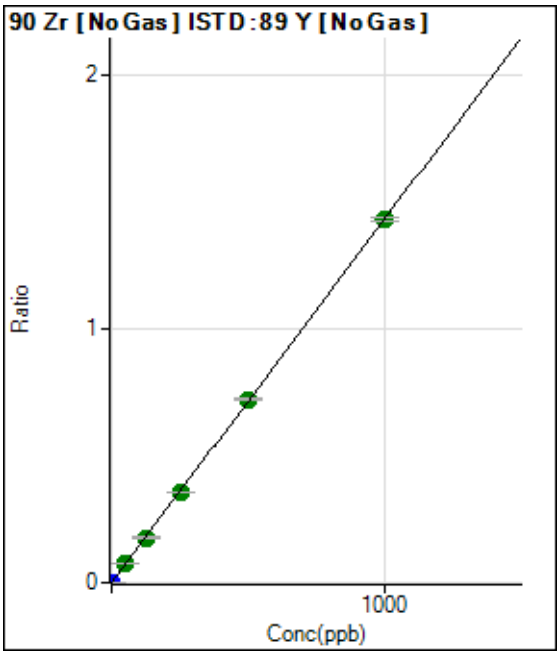
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	462.24	0.0000	P	10.4
2	☐	1.000	24.441	68223.26	0.0023	P	0.8
3	☐	625.000	1264.224	3479978.70	0.1160	A	0.5
4	☐	3125.000	3100.484	8383507.51	0.2844	A	0.9
5	☐	6250.000	6282.681	16523269.89	0.5762	A	1.5
6	☐	12500.000	12632.247	32372370.63	1.1586	A	1.2
7	☐	25000.000	24912.789	62634654.07	2.2849	A	1.1
8	☐			205035.69	0.0078	P	1.5

y = 9.1716E-005 * x + 1.5418E-005
R = 0.9997
DL = 0.05225
BEC = 0.1681

Weight: <None>
Min Conc: 0

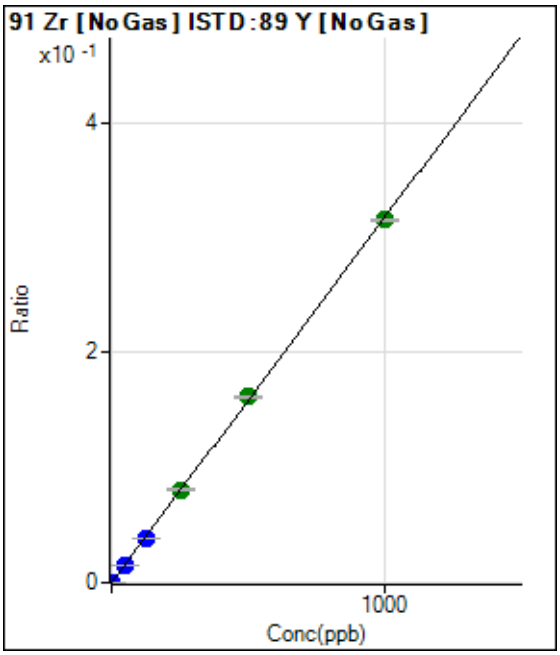


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1408.98	0.0000	P	5.7
2	☐	1.000	1.031	45996.73	0.0015	P	0.5
3	☐	50.000	50.876	2185675.78	0.0728	A	0.5
4	☐	125.000	124.168	5238582.56	0.1777	A	0.6
5	☐	250.000	250.318	10270495.82	0.3582	A	0.6
6	☐	500.000	503.409	20125604.98	0.7203	A	1.2
7	☐	1000.000	998.276	39156768.31	1.4283	A	1.0
8	☐			31758.31	0.0012	P	3.0

y = 0.0014 * x + 4.7005E-005
R = 1.0000
DL = 0.005602
BEC = 0.03285

Weight: <None>
Min Conc: 0

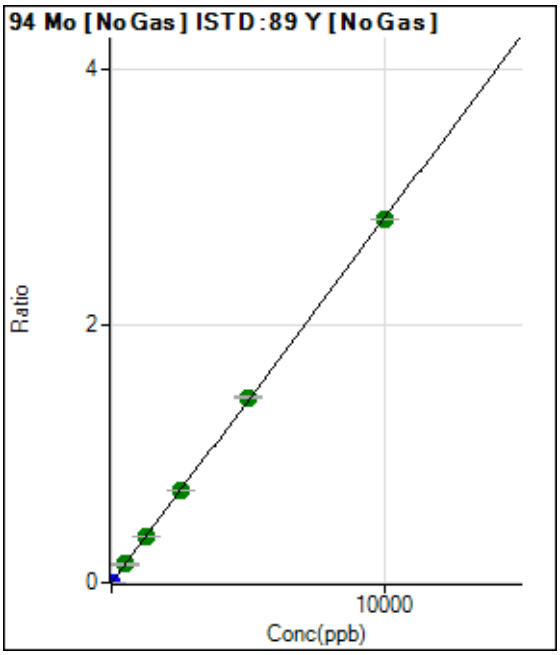
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0000	P	14.6
2	☐	1.000	1.024	10070.40	0.0003	P	1.7
3	☐	50.000	49.239	468936.37	0.0156	P	1.2
4	☐	125.000	122.411	1145024.34	0.0388	P	1.4
5	☐	250.000	255.323	2322606.77	0.0810	A	0.7
6	☐	500.000	509.426	4515588.92	0.1616	A	1.0
7	☐	1000.000	994.318	8646547.79	0.3154	A	0.4
8	☐			7057.40	0.0003	P	0.8

y = 3.1722E-004 * x + 8.1896E-006
R = 0.9999
DL = 0.01135
BEC = 0.02582

Weight: <None>
Min Conc: 0

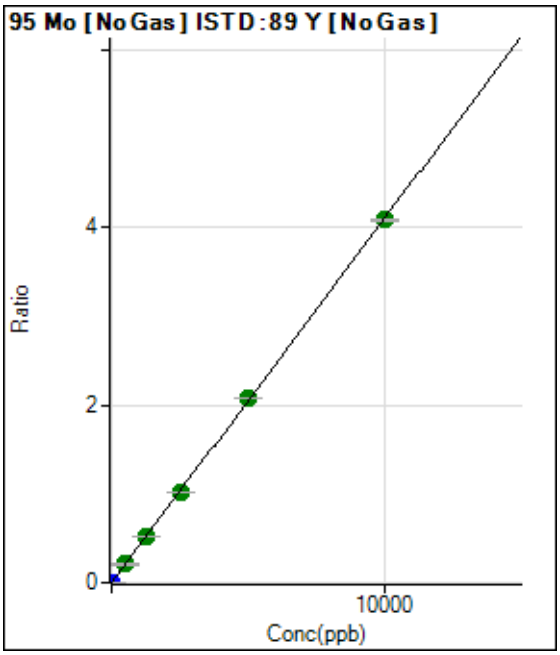


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	485.57	0.0000	P	4.3
2	☐	5.000	5.868	50777.85	0.0017	P	0.8
3	☐	500.000	501.888	4270722.05	0.1423	A	0.8
4	☐	1250.000	1244.957	10406244.08	0.3530	A	0.7
5	☐	2500.000	2518.402	20474820.81	0.7140	A	0.1
6	☐	5000.000	5087.039	40300371.06	1.4423	A	1.5
7	☐	10000.000	9952.416	77353971.07	2.8218	A	0.1
8	☐			19564.96	0.0007	P	1.1

y = 2.8352E-004 * x + 1.6199E-005
R = 0.9999
DL = 0.00742
BEC = 0.05714

Weight: <None>
Min Conc: 0

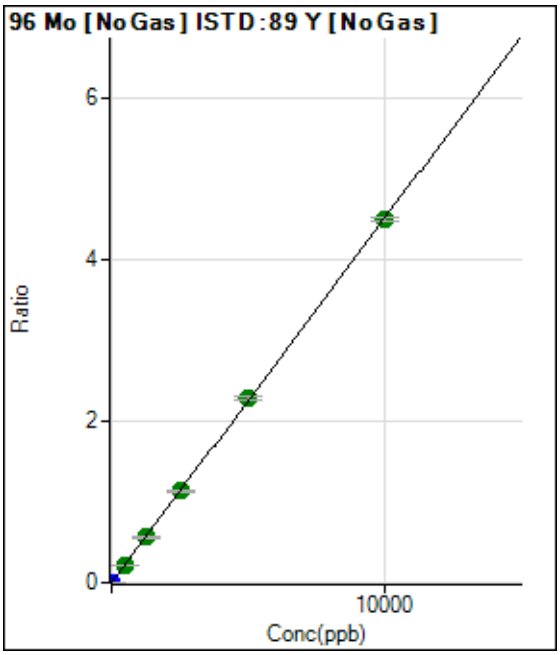
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.33	0.0000	P	2.9
2	☐	5.000	4.847	60198.32	0.0020	P	1.2
3	☐	500.000	501.855	6168600.46	0.2056	A	2.1
4	☐	1250.000	1258.517	15195901.58	0.5155	A	0.8
5	☐	2500.000	2498.593	29344064.56	1.0234	A	0.6
6	☐	5000.000	5073.930	58067190.25	2.0782	A	0.7
7	☐	10000.000	9962.229	111847868.3	4.0803	A	0.8
8	☐			14115.08	0.0005	P	6.6

y = 4.0958E-004 * x + 6.1152E-006
R = 1.0000
DL = 0.001283
BEC = 0.01493

Weight: <None>
Min Conc: 0

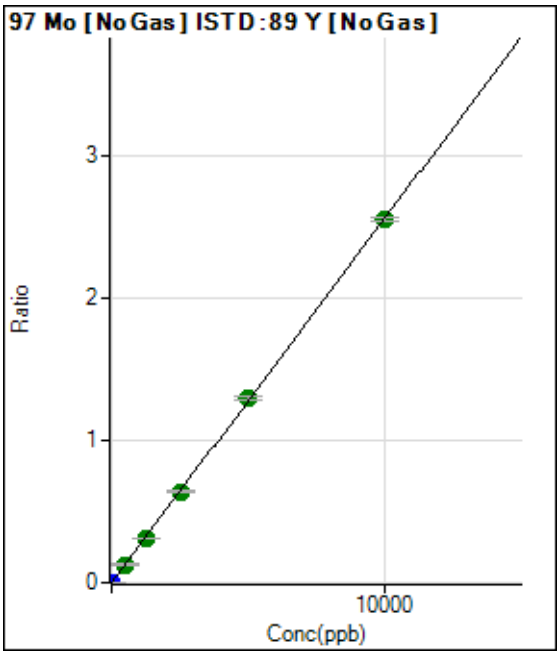


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296.67	0.0000	P	16.1
2	☐	5.000	4.897	66925.71	0.0022	P	2.0
3	☐	500.000	498.732	6736606.01	0.2245	A	0.9
4	☐	1250.000	1241.862	16479053.36	0.5590	A	0.8
5	☐	2500.000	2514.163	32449127.85	1.1317	A	1.3
6	☐	5000.000	5072.916	63801201.27	2.2834	A	2.0
7	☐	10000.000	9961.082	122899729.2	4.4836	A	1.2
8	☐			26792.62	0.0010	P	3.1

y = 4.5011E-004 * x + 9.9000E-006
R = 1.0000
DL = 0.01062
BEC = 0.02199

Weight: <None>
Min Conc: 0

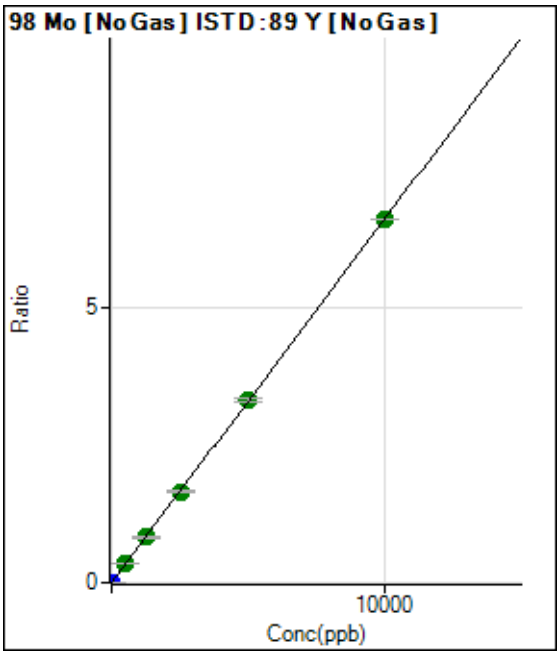
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	18.1
2	☐	5.000	4.849	37647.60	0.0012	P	0.4
3	☐	500.000	500.036	3842934.11	0.1281	A	1.3
4	☐	1250.000	1233.343	9311873.96	0.3159	A	1.1
5	☐	2500.000	2508.382	18420376.12	0.6424	A	1.5
6	☐	5000.000	5060.924	36217679.46	1.2962	A	2.4
7	☐	10000.000	9969.523	70000283.40	2.5533	A	1.2
8	☐			8425.98	0.0003	P	9.1

y = 2.5611E-004 * x + 3.7052E-006
R = 1.0000
DL = 0.007845
BEC = 0.01447

Weight: <None>
Min Conc: 0

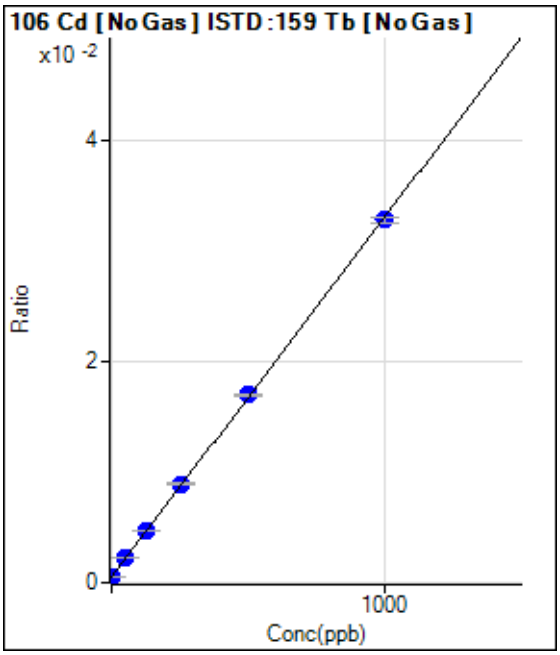


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.67	0.0000	P	5.0
2	☐	5.000	4.812	96604.26	0.0032	P	1.0
3	☐	500.000	506.769	10068751.10	0.3355	A	0.7
4	☐	1250.000	1244.498	24292287.97	0.8240	A	0.3
5	☐	2500.000	2507.423	47602587.62	1.6601	A	0.8
6	☐	5000.000	5029.342	93041091.95	3.3299	A	1.4
7	☐	10000.000	9983.823	181204963.9	6.6102	A	0.1
8	☐			20571.00	0.0008	P	7.9

y = 6.6209E-004 * x + 1.0231E-005
R = 1.0000
DL = 0.002296
BEC = 0.01545

Weight: <None>
Min Conc: 0

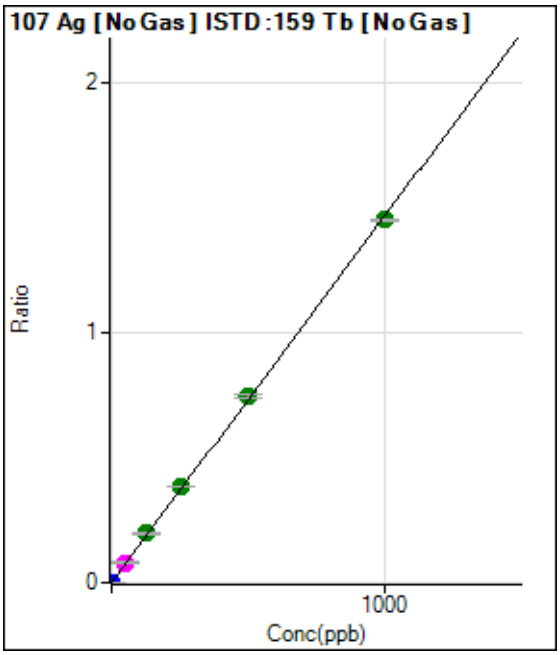
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10189.40	0.0005	P	1.6
2	☐	1.000	0.890	10716.47	0.0005	P	2.7
3	☐	50.000	53.943	45441.21	0.0023	P	3.5
4	☐	125.000	130.515	96129.35	0.0048	P	1.2
5	☐	250.000	259.269	175914.38	0.0090	P	1.7
6	☐	500.000	507.538	332295.03	0.0170	P	1.2
7	☐	1000.000	993.027	627584.11	0.0329	P	1.8
8	☐			8912.96	0.0005	P	1.6

y = 3.2580E-005 * x + 5.0495E-004
R = 0.9999
DL = 0.7428
BEC = 15.5

Weight: <None>
Min Conc: 0

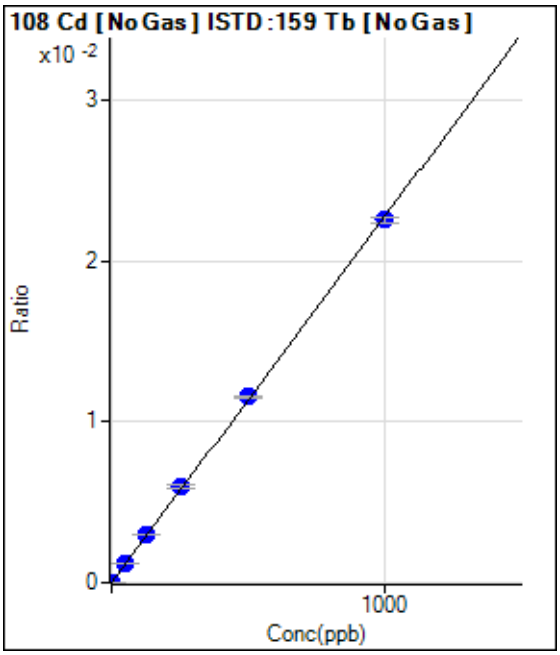


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.23	0.0000	P	3.4
2	☐	1.000	1.091	32277.78	0.0016	P	2.3
3	☐	50.000	54.163	1594253.97	0.0794	M	4.3
4	☐	125.000	134.546	3984290.81	0.1972	A	1.0
5	☐	250.000	263.581	7590569.05	0.3863	A	1.0
6	☐	500.000	509.523	14560540.34	0.7467	A	1.6
7	☐	1000.000	990.442	27724468.20	1.4514	A	0.4
8	☐			2950.35	0.0002	P	9.7

y = 0.0015 * x + 9.5233E-006
R = 0.9998
DL = 0.0006597
BEC = 0.006499

Weight: <None>
Min Conc: 0

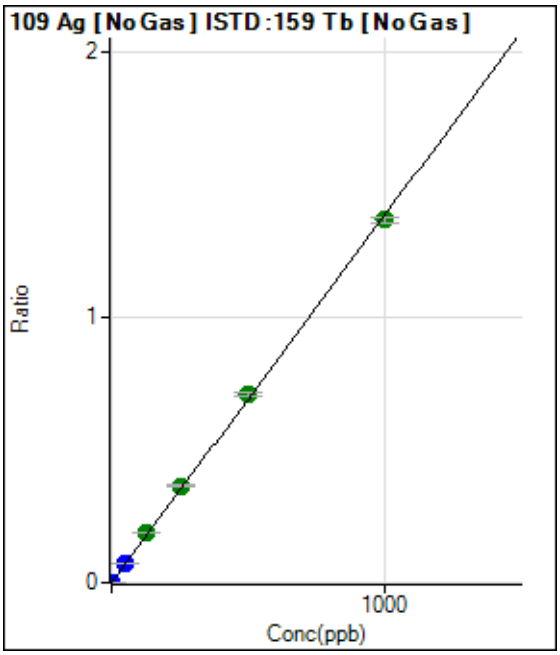
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.55	0.0000	P	46.3
2	☐	1.000	0.901	446.68	0.0000	P	3.4
3	☐	50.000	54.184	24789.02	0.0012	P	2.4
4	☐	125.000	130.626	60063.24	0.0030	P	0.3
5	☐	250.000	262.802	117473.35	0.0060	P	2.2
6	☐	500.000	507.748	225190.82	0.0115	P	1.8
7	☐	1000.000	992.013	430937.79	0.0226	P	1.4
8	☐			250.00	0.0000	P	10.7

y = 2.2741E-005 * x + 1.7566E-006
R = 0.9999
DL = 0.1074
BEC = 0.07724

Weight: <None>
Min Conc: 0

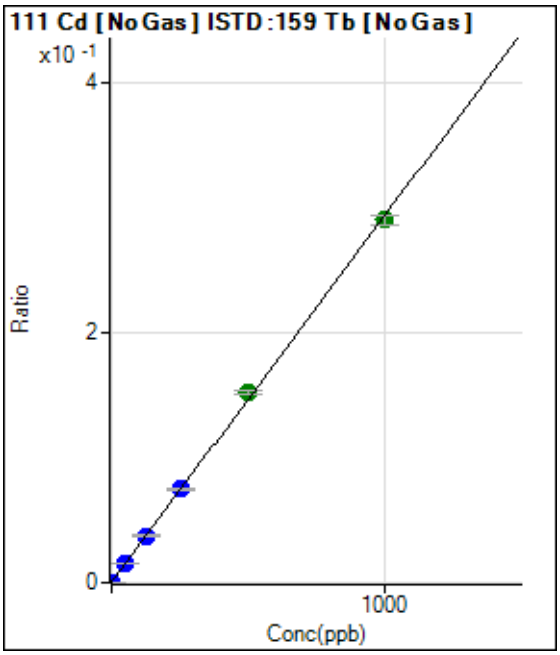


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0000	P	13.2
2	☐	1.000	1.090	30342.29	0.0015	P	2.2
3	☐	50.000	53.156	1476946.89	0.0735	P	2.9
4	☐	125.000	135.356	3783269.46	0.1872	A	1.0
5	☐	250.000	264.067	7177494.20	0.3653	A	2.5
6	☐	500.000	513.650	13854596.18	0.7105	A	1.6
7	☐	1000.000	988.206	26109300.44	1.3669	A	1.3
8	☐			2621.40	0.0001	P	8.5

y = 0.0014 * x + 3.4709E-006
R = 0.9997
DL = 0.0009951
BEC = 0.002509

Weight: <None>
Min Conc: 0

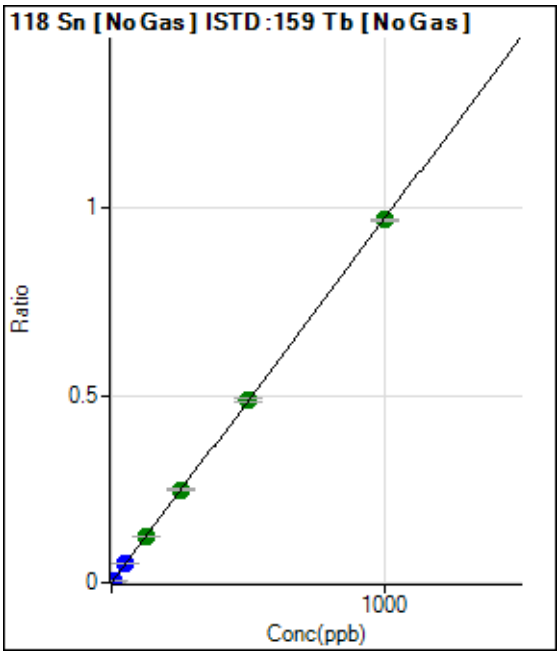
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7134.36	0.0004	P	1.6
2	☐	1.000	0.917	12496.60	0.0006	P	3.5
3	☐	50.000	52.204	314858.71	0.0157	P	1.9
4	☐	125.000	127.088	760777.69	0.0376	P	0.8
5	☐	250.000	254.131	1472493.56	0.0749	P	1.7
6	☐	500.000	518.329	2972946.06	0.1525	A	2.3
7	☐	1000.000	989.432	5552330.26	0.2907	A	2.8
8	☐			7053.00	0.0004	P	1.0

y = 2.9347E-004 * x + 3.5356E-004
R = 0.9997
DL = 0.05919
BEC = 1.205

Weight: <None>
Min Conc: 0

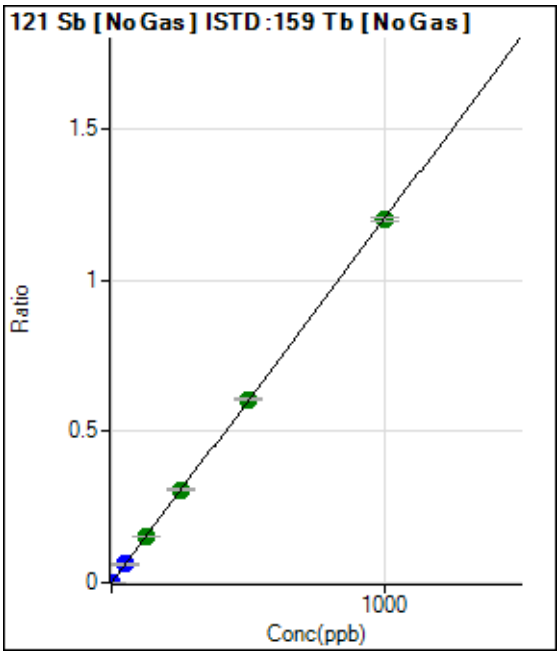


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3232.64	0.0002	P	5.6
2	☐	5.000	5.000	100832.21	0.0050	P	0.7
3	☐	50.000	50.995	999613.10	0.0498	P	2.1
4	☐	125.000	127.358	2506549.98	0.1240	A	0.8
5	☐	250.000	254.041	4858812.43	0.2473	A	1.9
6	☐	500.000	503.625	9555149.93	0.4900	A	2.0
7	☐	1000.000	996.833	18525130.14	0.9698	A	0.4
8	☐			5481.15	0.0003	P	3.7

y = 9.7268E-004 * x + 1.6014E-004
R = 1.0000
DL = 0.02784
BEC = 0.1646

Weight: <None>
Min Conc: 0

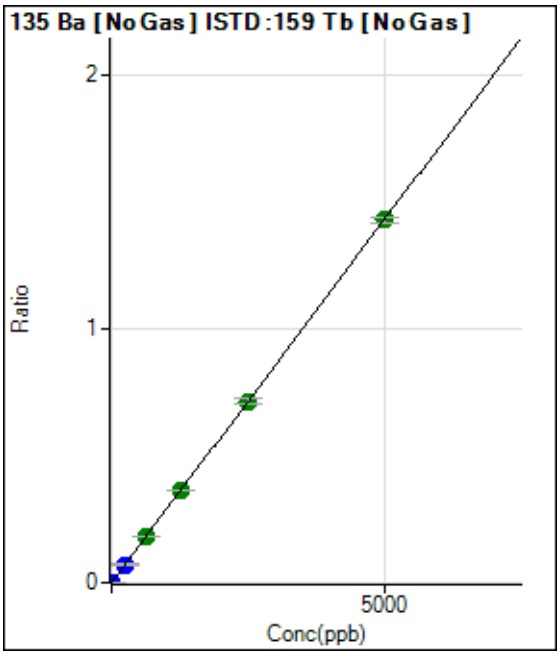
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	17.5
2	☐	2.000	2.016	48810.10	0.0024	P	1.3
3	☐	50.000	50.409	1220277.69	0.0607	P	2.4
4	☐	125.000	126.961	3091827.77	0.1530	A	1.0
5	☐	250.000	254.454	6025547.41	0.3066	A	2.0
6	☐	500.000	503.850	11839658.16	0.6072	A	1.7
7	☐	1000.000	996.696	22941937.99	1.2011	A	0.9
8	☐			11154.63	0.0006	P	6.0

y = 0.0012 * x + 2.9154E-006
R = 1.0000
DL = 0.00127
BEC = 0.002419

Weight: <None>
Min Conc: 0

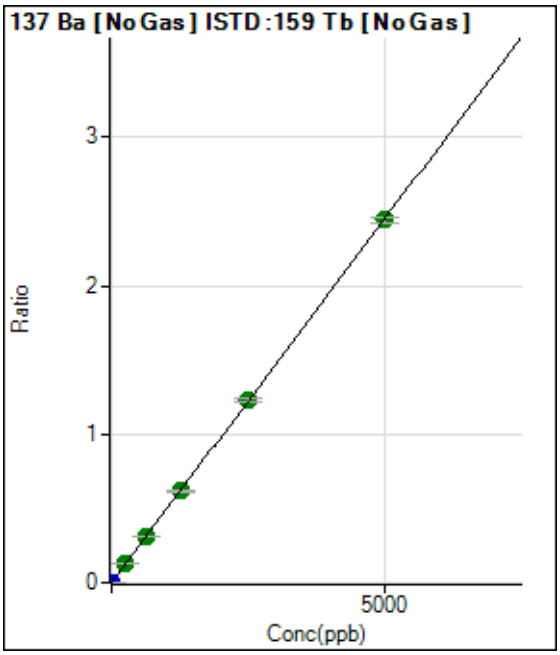


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	12.5
2	☐	10.000	9.854	56624.52	0.0028	P	1.1
3	☐	250.000	249.223	1431342.88	0.0713	P	1.9
4	☐	625.000	634.255	3664153.73	0.1813	A	0.1
5	☐	1250.000	1270.404	7137009.55	0.3632	A	1.7
6	☐	2500.000	2498.604	13928502.43	0.7143	A	2.5
7	☐	5000.000	4994.479	27271930.98	1.4278	A	1.7
8	☐			11917.53	0.0007	P	1.2

y = 2.8588E-004 * x + 4.0170E-006
R = 1.0000
DL = 0.005254
BEC = 0.01405

Weight: <None>
Min Conc: 0

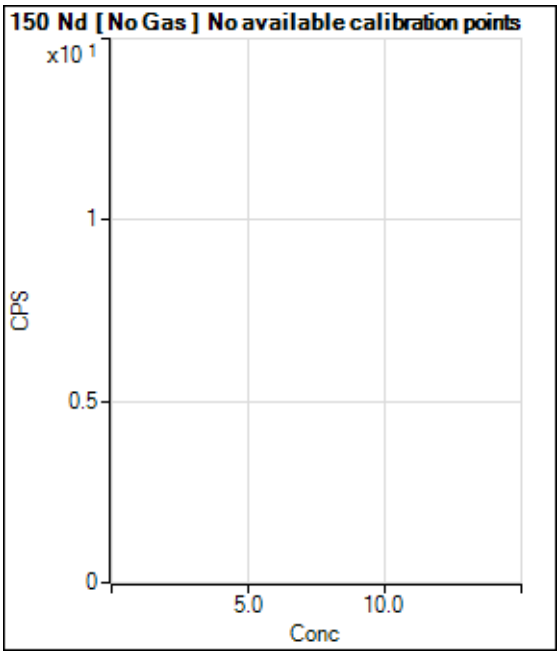
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.78	0.0000	P	7.6
2	☐	10.000	9.938	97916.15	0.0049	P	0.7
3	☐	250.000	260.600	2564851.49	0.1277	A	2.4
4	☐	625.000	636.378	6300280.11	0.3118	A	0.6
5	☐	1250.000	1265.118	12179555.65	0.6198	A	2.8
6	☐	2500.000	2508.901	23969114.64	1.2292	A	1.6
7	☐	5000.000	4989.817	46693117.08	2.4447	A	1.8
8	☐			20872.83	0.0011	P	2.0

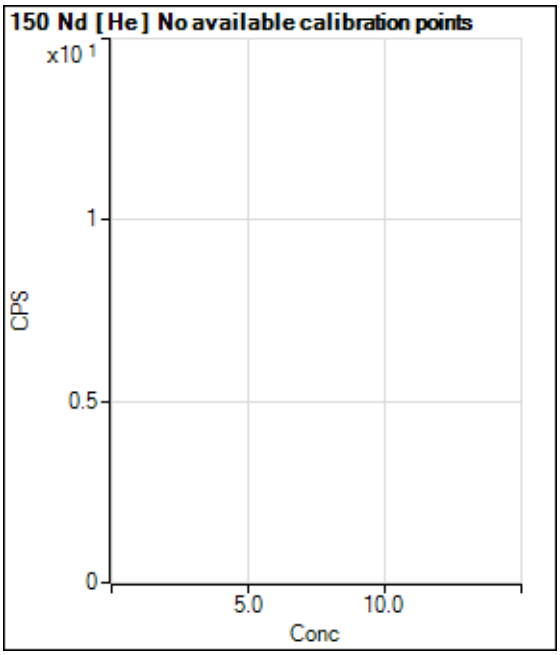
y = 4.8993E-004 * x + 9.3032E-006
R = 1.0000
DL = 0.004304
BEC = 0.01899

Weight: <None>
Min Conc: 0

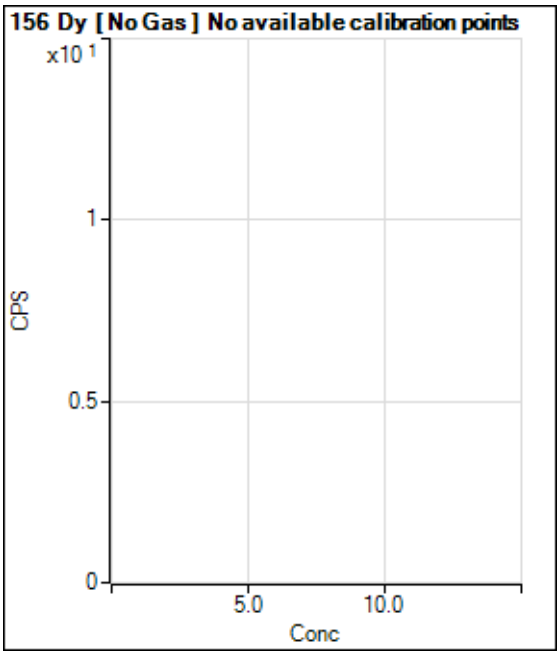


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	25.0
2	☐			27.78		P	38.6
3	☐			133.34		P	15.6
4	☐			283.34		P	14.1
5	☐			601.13		P	7.2
6	☐			1146.73		P	2.2
7	☐			2120.19		P	3.4
8	☐			472.23		P	13.9

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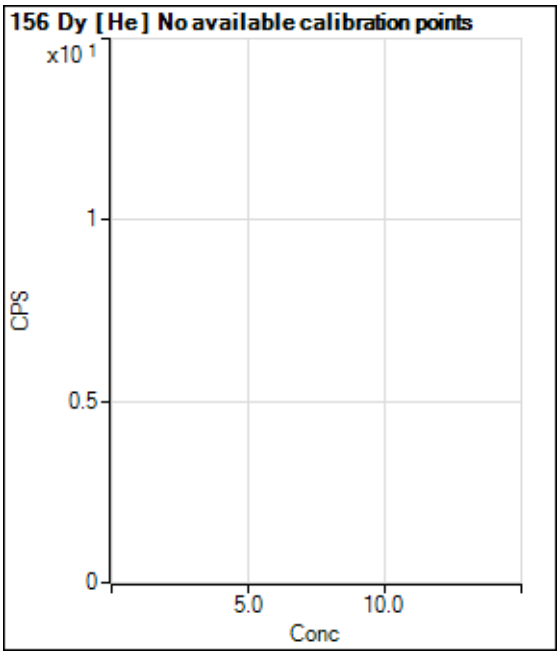


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.
2	☐			4.44		P	43.4
3	☐			3.33		P	100.
4	☐			21.11		P	59.8
5	☐			27.78		P	18.3
6	☐			63.33		P	29.3
7	☐			152.23		P	9.1
8	☐			124.45		P	8.6

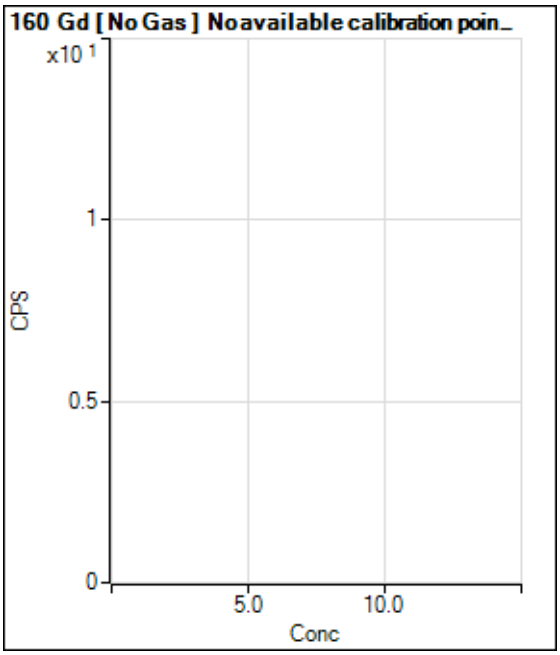


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			17.78		P	43.3
2	☐			35.55		P	30.1
3	☐			63.33		P	13.9
4	☐			131.12		P	23.1
5	☐			218.89		P	11.6
6	☐			340.01		P	15.3
7	☐			640.02		P	5.0
8	☐			1170.06		P	2.2

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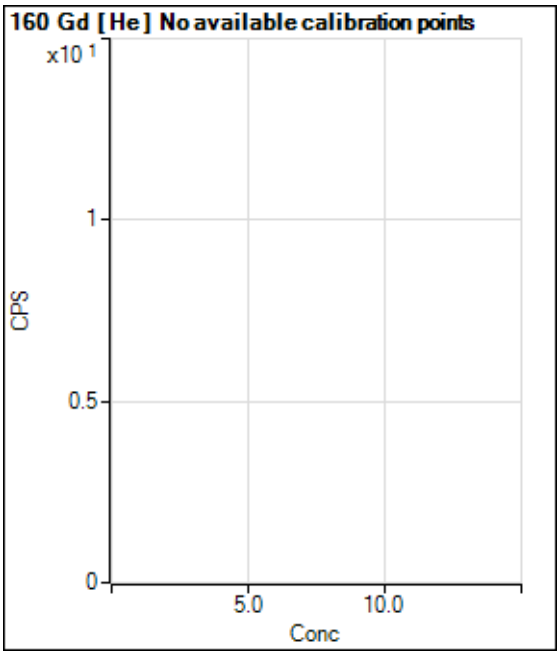


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.
2	☐			8.89		P	57.3
3	☐			14.45		P	26.7
4	☐			21.11		P	39.7
5	☐			38.89		P	17.8
6	☐			53.33		P	12.5
7	☐			104.45		P	25.6
8	☐			367.79		P	15.6

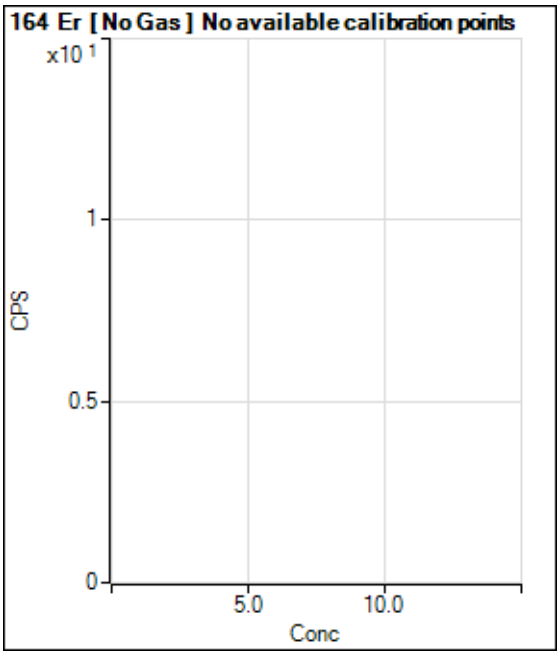


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			143.34		P	16.1
2	☐			138.89		P	10.8
3	☐			124.45		P	21.5
4	☐			173.34		P	6.9
5	☐			203.34		P	1.6
6	☐			286.67		P	21.3
7	☐			418.90		P	6.4
8	☐			1205.62		P	2.9

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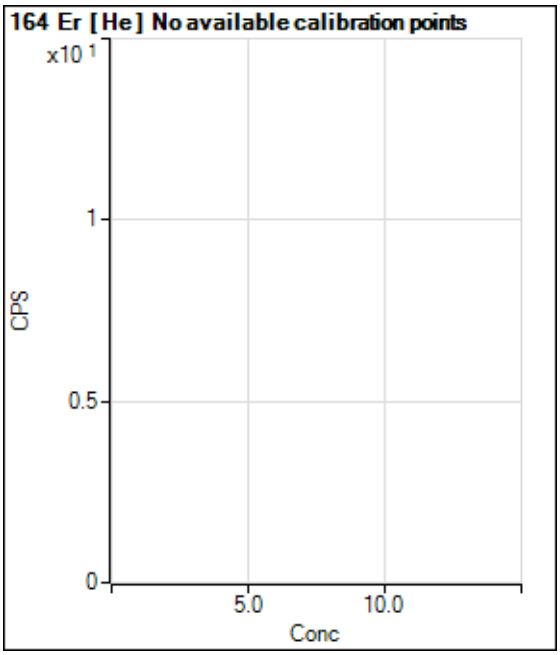


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.55		P	15.1
2	☐			42.22		P	29.9
3	☐			43.33		P	20.4
4	☐			55.55		P	28.4
5	☐			64.44		P	18.2
6	☐			96.67		P	24.1
7	☐			150.01		P	7.7
8	☐			477.79		P	18.2

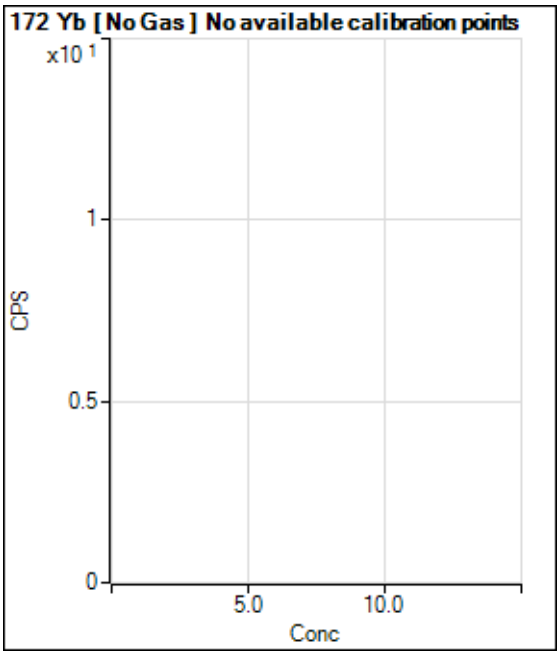


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			127.78		P	4.0
2	☐			171.11		P	10.0
3	☐			174.45		P	19.5
4	☐			195.56		P	8.4
5	☐			255.56		P	1.5
6	☐			400.01		P	4.6
7	☐			524.46		P	3.6
8	☐			2351.34		P	2.6

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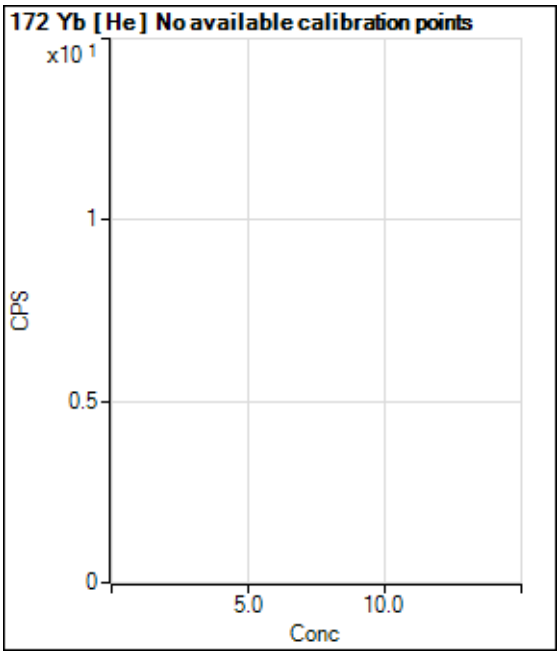


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			40.00		P	30.0
2	☐			40.00		P	8.3
3	☐			44.45		P	30.3
4	☐			71.11		P	34.6
5	☐			85.56		P	14.7
6	☐			137.78		P	3.7
7	☐			212.23		P	4.8
8	☐			840.04		P	11.7

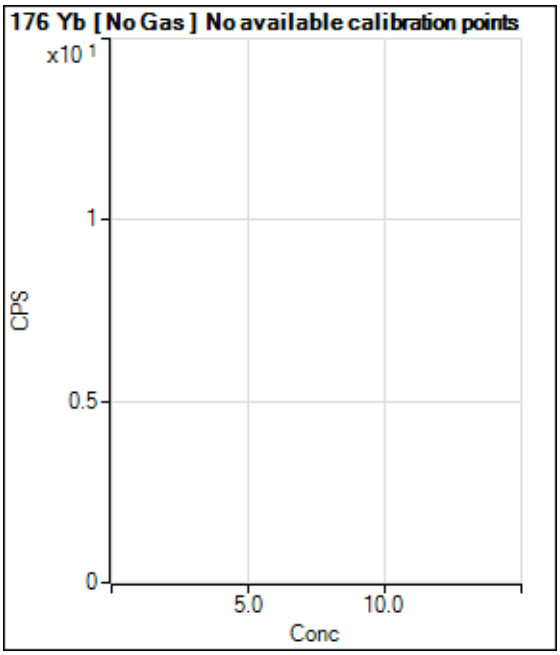


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			114.45		P	7.3
2	☐			130.00		P	22.4
3	☐			156.67		P	18.5
4	☐			221.11		P	10.0
5	☐			252.23		P	12.6
6	☐			395.57		P	7.6
7	☐			585.57		P	4.8
8	☐			1743.47		P	1.6

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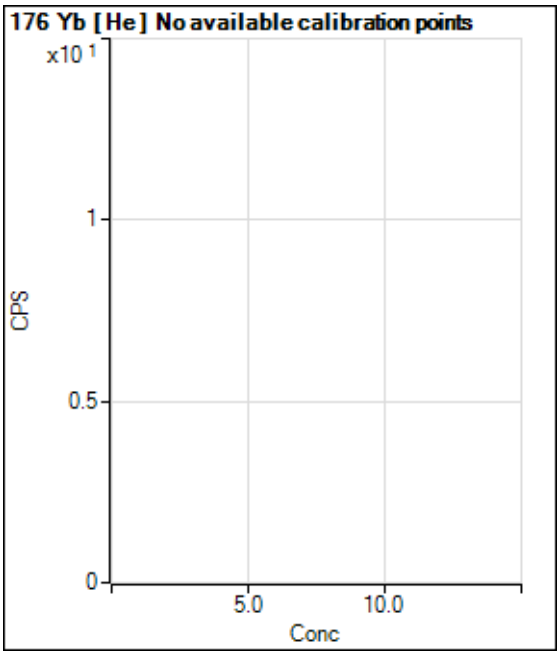


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			57.78		P	69.6
2	☐			54.45		P	12.7
3	☐			74.44		P	23.0
4	☐			65.56		P	21.2
5	☐			102.23		P	35.8
6	☐			130.00		P	12.8
7	☐			227.78		P	6.1
8	☐			707.81		P	8.9

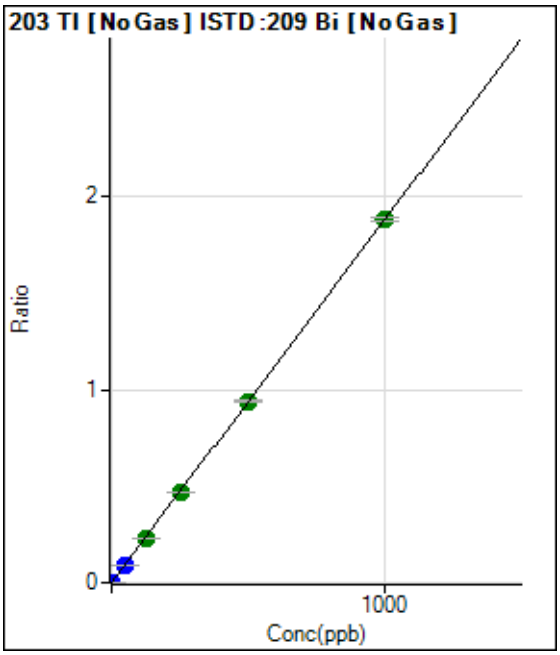


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2626.95		P	1.2
2	☐			2724.76		P	4.8
3	☐			7735.67		P	3.3
4	☐			15044.24		P	0.7
5	☐			27637.83		P	3.9
6	☐			51862.47		P	1.2
7	☐			99795.60		P	1.1
8	☐			3248.22		P	0.8

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			895.59		P	4.9
2	☐			806.70		P	11.2
3	☐			2458.03		P	5.4
4	☐			5034.34		P	2.5
5	☐			9312.24		P	0.3
6	☐			17451.64		P	0.9
7	☐			33657.23		P	1.0
8	☐			1014.50		P	3.3

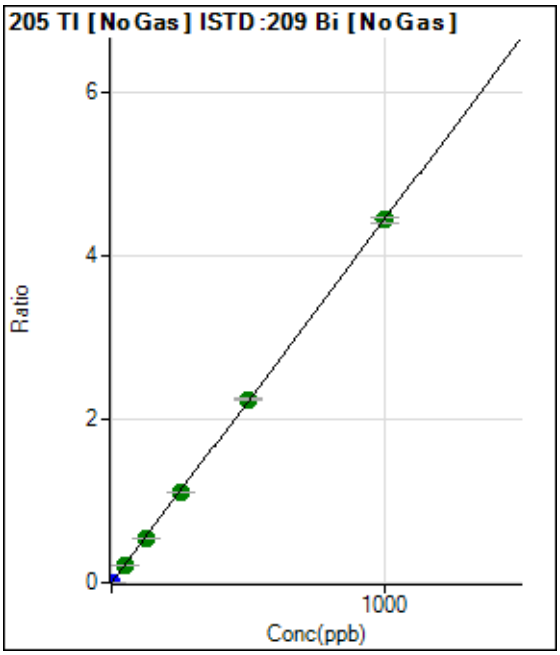


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.67	0.0000	P	10.3
2	☐	1.000	0.937	20839.06	0.0018	P	2.1
3	☐	50.000	47.917	1048017.48	0.0900	P	0.6
4	☐	125.000	123.851	2704127.28	0.2327	A	0.9
5	☐	250.000	247.899	5310270.83	0.4658	A	0.5
6	☐	500.000	500.506	10374034.92	0.9403	A	1.2
7	☐	1000.000	1000.520	20062398.73	1.8797	A	1.1
8	☐			1647.90	0.0002	P	5.0

y = 0.0019 * x + 2.1008E-005
R = 1.0000
DL = 0.003449
BEC = 0.01118

Weight: <None>
Min Conc: 0

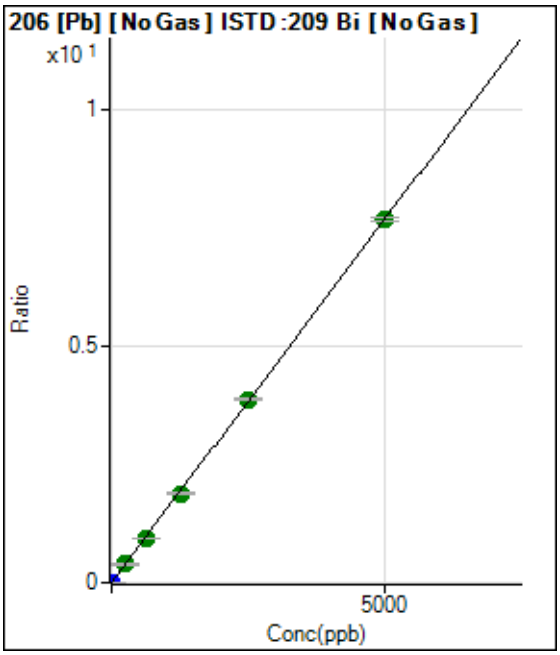
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	577.80	0.0000	P	8.7
2	☐	1.000	0.957	50208.90	0.0043	P	2.1
3	☐	50.000	49.795	2571733.76	0.2210	A	0.9
4	☐	125.000	121.872	6283324.91	0.5407	A	0.8
5	☐	250.000	247.089	12498541.62	1.0962	A	0.4
6	☐	500.000	504.394	24687546.30	2.2377	A	0.9
7	☐	1000.000	998.932	47299841.52	4.4317	A	1.3
8	☐			4062.92	0.0004	P	11.7

y = 0.0044 * x + 4.9205E-005
R = 1.0000
DL = 0.002887
BEC = 0.01109

Weight: <None>
Min Conc: 0

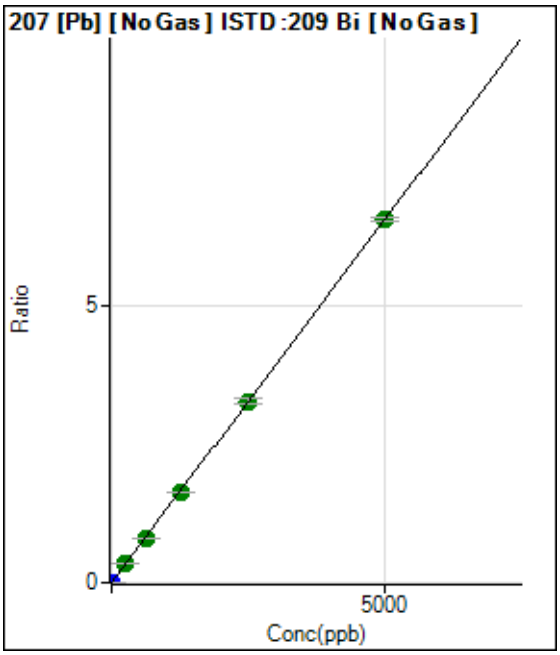


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	653.36	0.0001	P	5.7
2	☐	1.000	0.792	14881.96	0.0013	P	1.3
3	☐	250.000	252.417	4511931.81	0.3877	A	0.9
4	☐	625.000	610.156	10888833.59	0.9370	A	0.7
5	☐	1250.000	1228.078	21503127.18	1.8859	A	0.7
6	☐	2500.000	2519.841	42691661.59	3.8696	A	1.2
7	☐	5000.000	4997.295	81906983.78	7.6741	A	1.0
8	☐			58251.14	0.0061	P	1.1

y = 0.0015 * x + 5.5647E-005
R = 1.0000
DL = 0.006211
BEC = 0.03624

Weight: <None>
Min Conc: 0

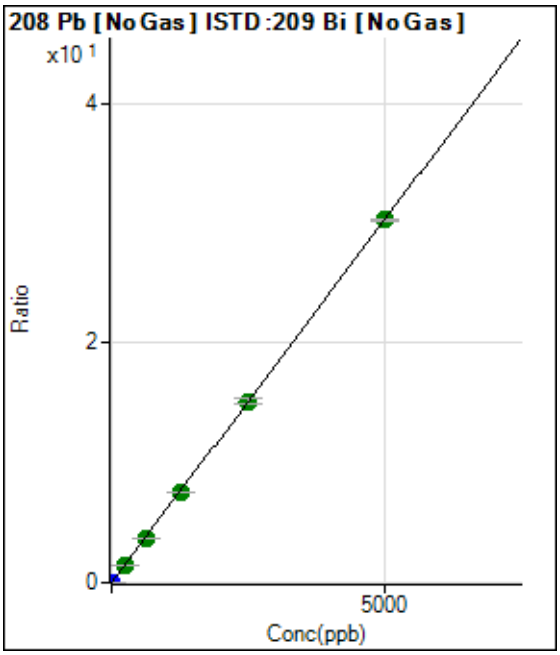
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	545.57	0.0000	P	12.2
2	☐	1.000	0.822	13150.09	0.0011	P	2.9
3	☐	250.000	254.037	3875799.80	0.3330	A	1.2
4	☐	625.000	611.367	9312127.85	0.8014	A	0.9
5	☐	1250.000	1243.193	18579445.56	1.6295	A	1.3
6	☐	2500.000	2502.871	36191949.74	3.2806	A	2.6
7	☐	5000.000	5001.768	69971725.62	6.5559	A	1.1
8	☐			50049.44	0.0052	P	2.0

y = 0.0013 * x + 4.6473E-005
R = 1.0000
DL = 0.01295
BEC = 0.03546

Weight: <None>
Min Conc: 0

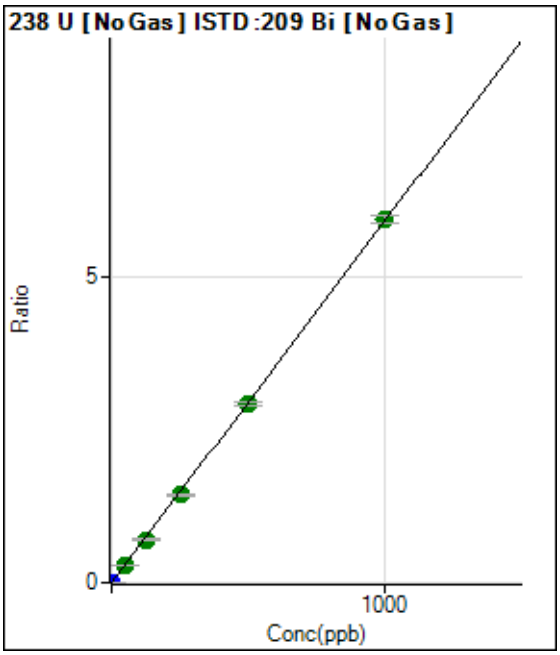


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2564.57	0.0002	P	4.1
2	☐	1.000	0.807	59740.83	0.0051	P	1.9
3	☐	250.000	249.586	17596379.59	1.5119	A	0.7
4	☐	625.000	612.672	43122041.93	3.7110	A	0.5
5	☐	1250.000	1241.678	85750106.50	7.5207	A	1.4
6	☐	2500.000	2504.570	167356027.7	15.1696	A	2.2
7	☐	5000.000	5001.357	323310471.2	30.2919	A	0.8
8	☐			229707.85	0.0240	P	0.7

y = 0.0061 * x + 2.1841E-004
R = 1.0000
DL = 0.004388
BEC = 0.03606

Weight: <None>
Min Conc: 0

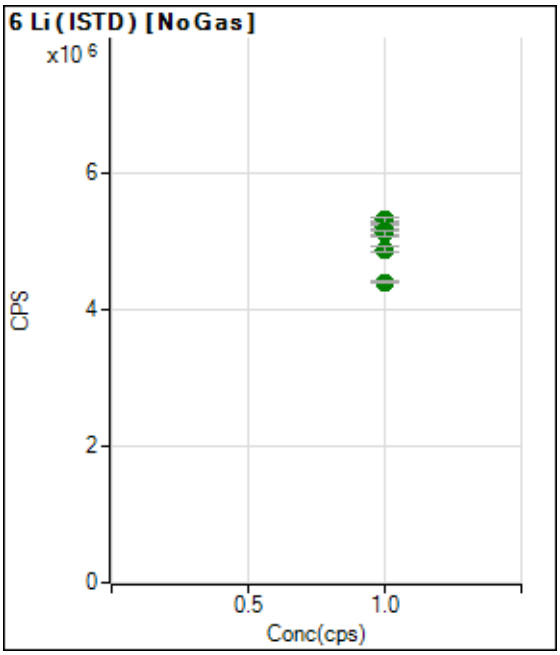
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0000	P	12.2
2	☐	1.000	0.906	62685.80	0.0054	P	2.0
3	☐	50.000	48.049	3297695.37	0.2833	A	0.7
4	☐	125.000	119.591	8194152.03	0.7052	A	1.5
5	☐	250.000	242.887	16329723.93	1.4322	A	1.6
6	☐	500.000	496.212	32279189.24	2.9259	A	1.8
7	☐	1000.000	1004.446	63213497.95	5.9226	A	2.1
8	☐			3030.41	0.0003	P	17.5

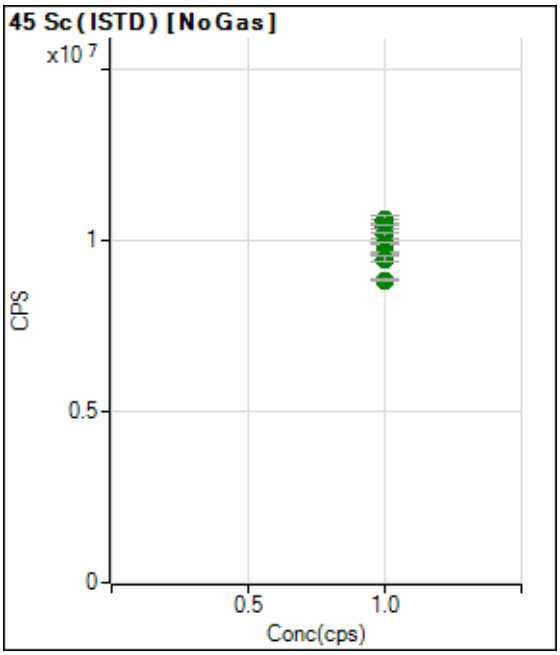
y = 0.0059 * x + 1.9868E-005
R = 1.0000
DL = 0.001232
BEC = 0.00337

Weight: <None>
Min Conc: 0

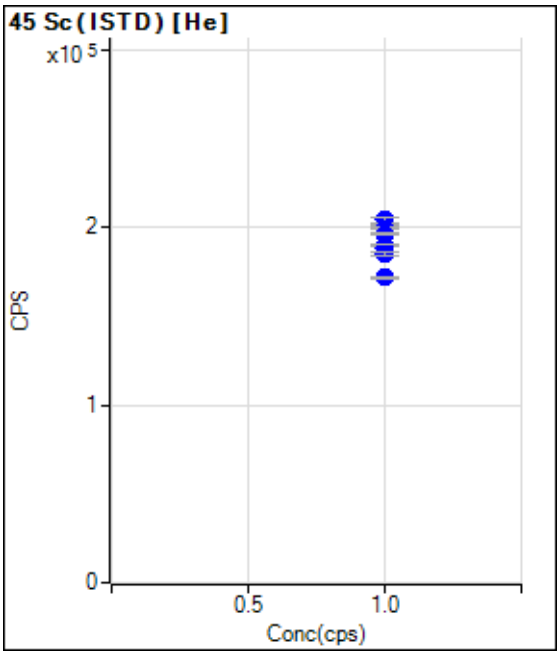


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5128112.54		A	1.3
2	☐	1.000		5209257.08		A	2.1
3	☐	1.000		5258360.37		A	0.9
4	☐	1.000		5313076.76		A	1.7
5	☐	1.000		5162706.39		A	0.7
6	☐	1.000		5112980.63		A	2.1
7	☐	1.000		4881194.44		A	1.6
8	☐	1.000		4402371.95		A	1.0

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
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LB :LB135886

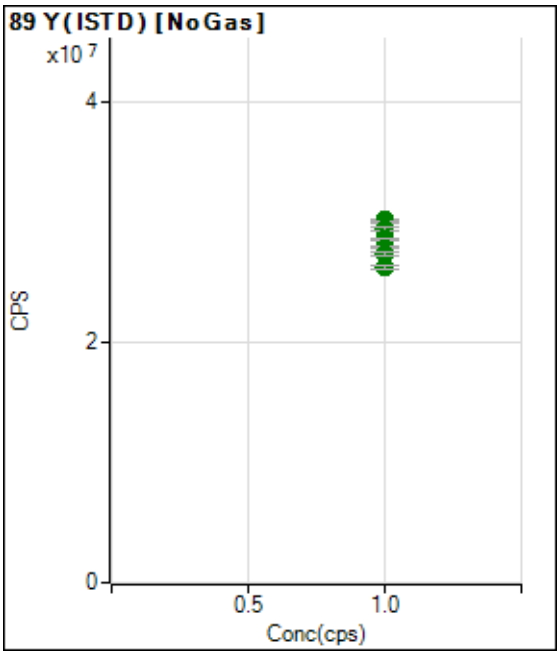


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3	☐	1.000		10426325.82		A	1.0
4	☐	1.000		10169340.96		A	1.6
5	☐	1.000		9918966.38		A	0.9
6	☐	1.000		9664493.74		A	0.6
7	☐	1.000		9468784.30		A	1.6
8	☐	1.000		8854910.84		A	0.3

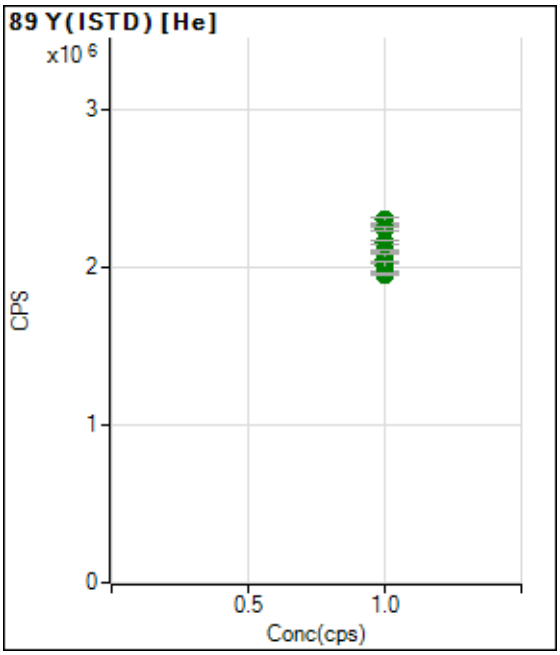


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		202003.88		P	0.6
2	☐	1.000		204067.27		P	1.3
3	☐	1.000		199103.87		P	0.5
4	☐	1.000		196270.47		P	0.7
5	☐	1.000		189822.09		P	0.1
6	☐	1.000		188331.95		P	2.3
7	☐	1.000		185066.33		P	1.2
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Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
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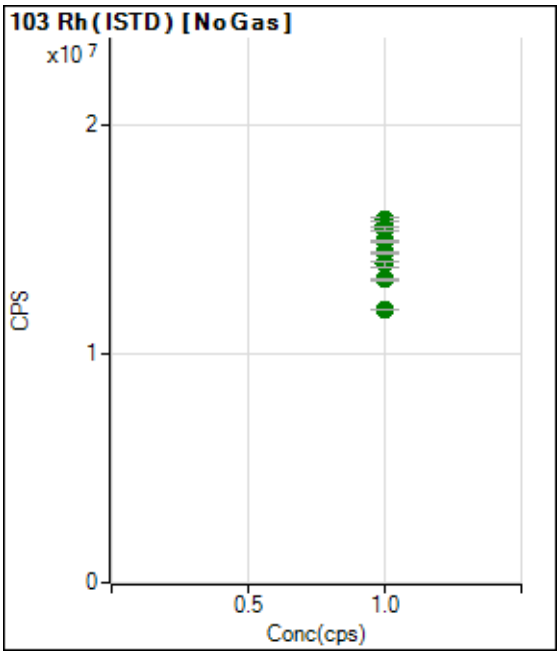


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1	☐	1.000		29978452.61		A	0.5
2	☐	1.000		30227603.72		A	0.6
3	☐	1.000		30008639.27		A	0.6
4	☐	1.000		29481259.84		A	0.8
5	☐	1.000		28674649.85		A	0.6
6	☐	1.000		27940739.58		A	0.7
7	☐	1.000		27413174.31		A	1.4
8	☐	1.000		26258714.88		A	1.6

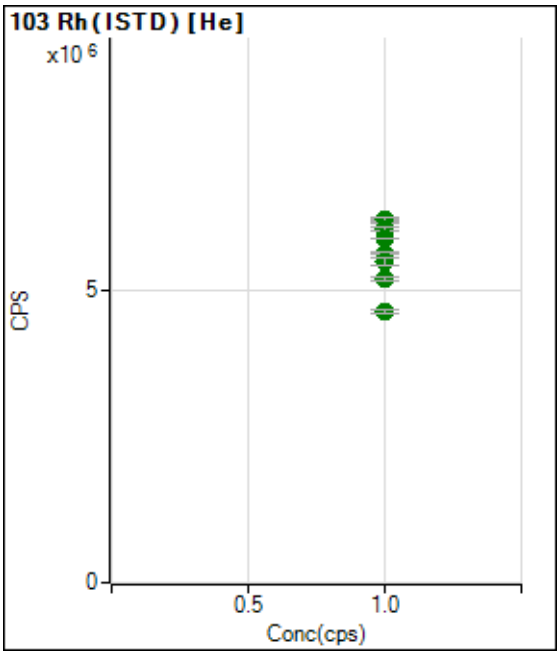


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2	☐	1.000		2299076.91		A	1.6
3	☐	1.000		2240633.87		A	1.5
4	☐	1.000		2159814.08		A	1.3
5	☐	1.000		2103545.18		A	0.6
6	☐	1.000		2049201.37		A	2.9
7	☐	1.000		2006040.04		A	2.6
8	☐	1.000		1954831.97		A	0.7

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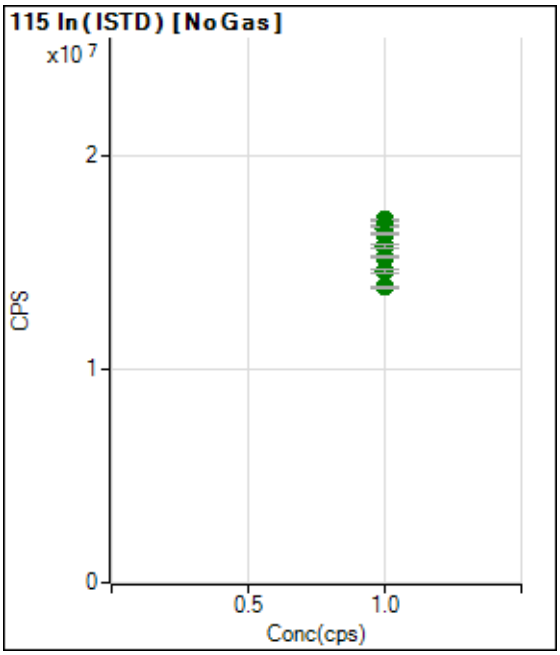


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3	☐	1.000		15474730.05		A	0.9
4	☐	1.000		14950595.19		A	0.4
5	☐	1.000		14435705.76		A	0.5
6	☐	1.000		13940947.01		A	1.8
7	☐	1.000		13265376.75		A	0.9
8	☐	1.000		11938624.82		A	0.5

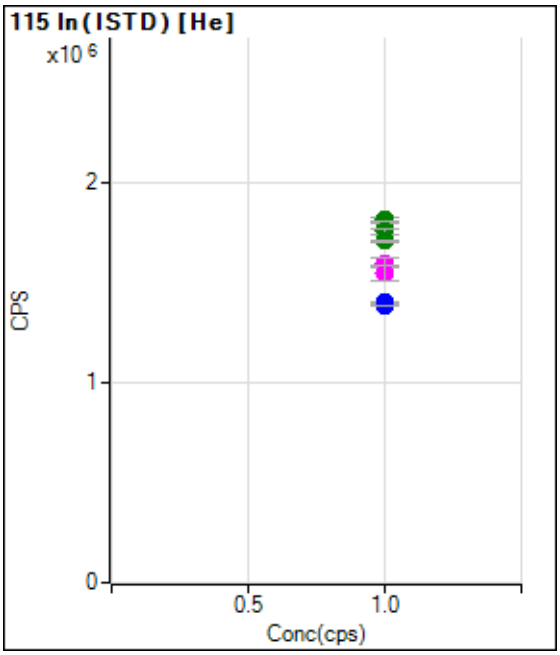


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1	☐	1.000		6190257.96		A	0.6
2	☐	1.000		6195228.66		A	1.5
3	☐	1.000		6050013.73		A	1.0
4	☐	1.000		5873463.04		A	0.2
5	☐	1.000		5616282.55		A	0.5
6	☐	1.000		5487176.03		A	2.4
7	☐	1.000		5189278.36		A	0.8
8	☐	1.000		4631959.79		A	1.6

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
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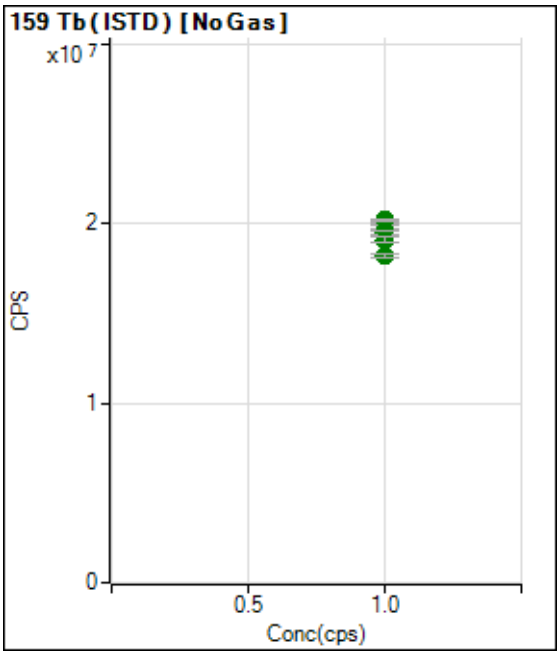


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2	☐	1.000		16719967.70		A	0.3
3	☐	1.000		16535028.47		A	1.4
4	☐	1.000		16318431.50		A	0.3
5	☐	1.000		15734358.06		A	0.9
6	☐	1.000		15247804.81		A	0.1
7	☐	1.000		14594761.46		A	1.4
8	☐	1.000		13826756.08		A	0.5

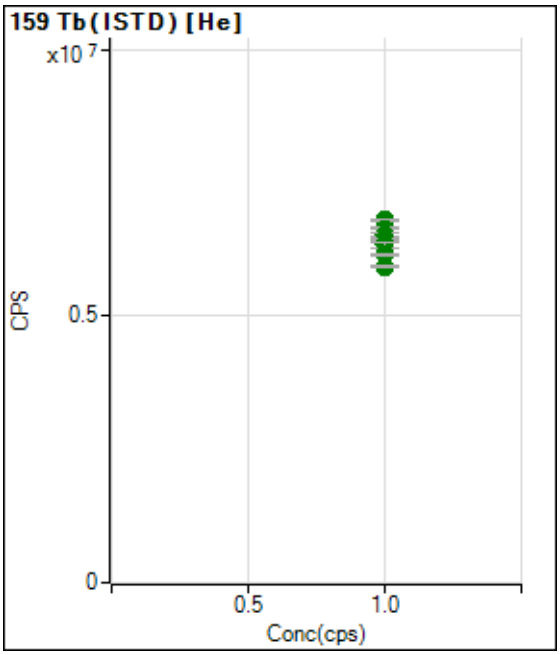


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1	☐	1.000		1818462.59		A	1.2
2	☐	1.000		1809711.85		A	0.5
3	☐	1.000		1759586.93		A	1.5
4	☐	1.000		1714731.74		A	0.6
5	☐	1.000		1604021.43		M	2.7
6	☐	1.000		1551331.95		M	5.2
7	☐	1.000		1402997.00		P	0.4
8	☐	1.000		1388115.27		P	0.4

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

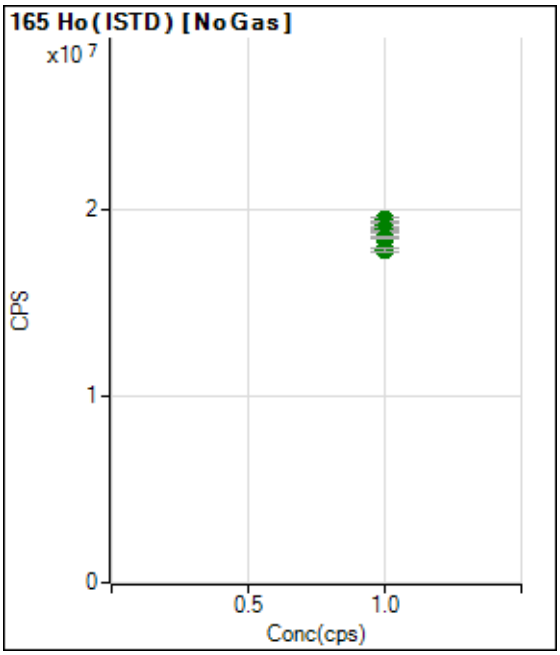


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20180341.64		A	1.0
2	☐	1.000		20071298.73		A	0.2
3	☐	1.000		20091661.64		A	1.3
4	☐	1.000		20207425.25		A	0.8
5	☐	1.000		19652511.38		A	0.8
6	☐	1.000		19501377.35		A	0.8
7	☐	1.000		19102674.58		A	1.4
8	☐	1.000		18171499.87		A	1.3

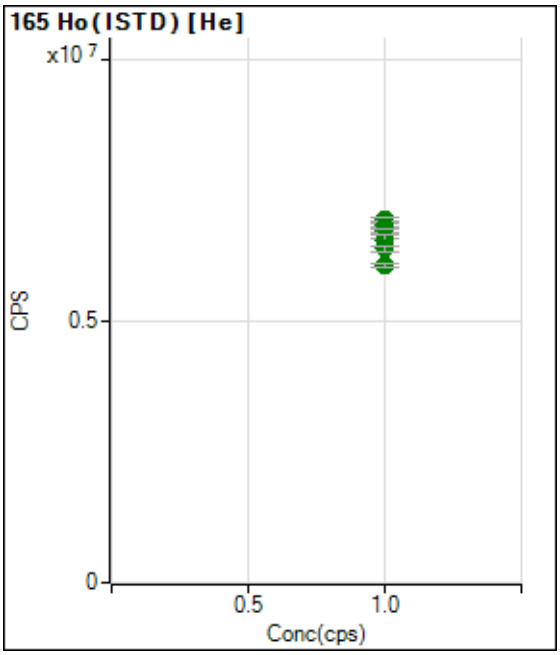


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1	☐	1.000		6780989.55		A	0.7
2	☐	1.000		6799037.33		A	0.3
3	☐	1.000		6644733.72		A	0.4
4	☐	1.000		6521671.43		A	1.4
5	☐	1.000		6438050.46		A	0.5
6	☐	1.000		6326746.22		A	1.4
7	☐	1.000		6147204.77		A	0.6
8	☐	1.000		5912303.25		A	0.5

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On:5/23/2025 9:40:12 AM
Inst Id :P8
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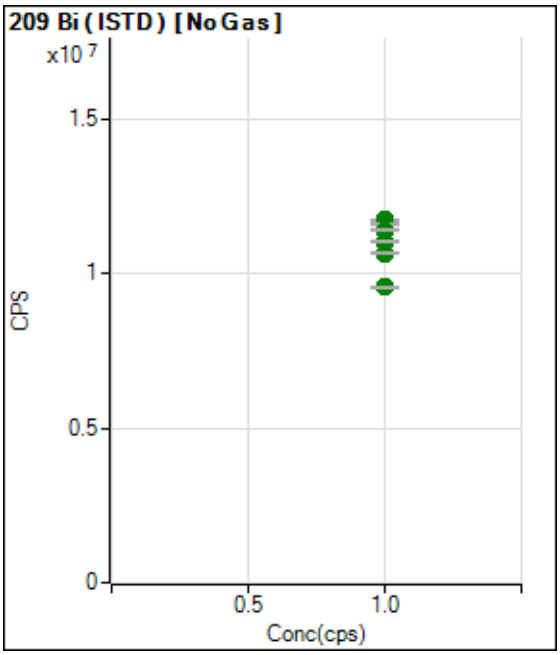


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19130683.33		A	1.3
2	☐	1.000		19450057.63		A	1.5
3	☐	1.000		19304426.80		A	0.7
4	☐	1.000		19321868.18		A	0.6
5	☐	1.000		18976530.97		A	1.0
6	☐	1.000		18765951.67		A	0.6
7	☐	1.000		18495015.00		A	0.9
8	☐	1.000		17823269.18		A	1.3

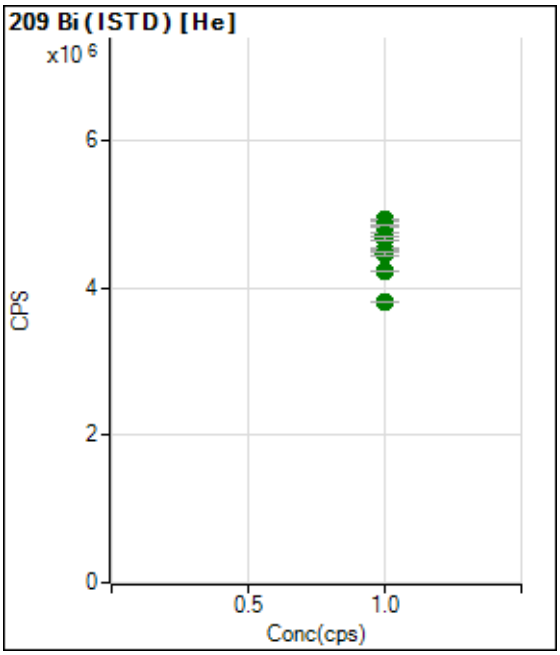


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6834673.72		A	0.7
2	☐	1.000		6937708.44		A	0.9
3	☐	1.000		6790298.85		A	0.8
4	☐	1.000		6726023.72		A	0.9
5	☐	1.000		6584716.01		A	0.2
6	☐	1.000		6543333.31		A	3.3
7	☐	1.000		6387426.78		A	1.7
8	☐	1.000		6079351.16		A	1.0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11742590.94		A	0.4
2	☐	1.000		11697436.22		A	1.3
3	☐	1.000		11638776.49		A	0.6
4	☐	1.000		11620300.10		A	0.5
5	☐	1.000		11401576.36		A	0.5
6	☐	1.000		11032652.61		A	0.3
7	☐	1.000		10673318.17		A	0.4
8	☐	1.000		9555777.01		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4917045.06		A	0.2
2	☐	1.000		4835866.91		A	0.6
3	☐	1.000		4717697.18		A	1.6
4	☐	1.000		4661730.03		A	1.4
5	☐	1.000		4520024.79		A	0.6
6	☐	1.000		4455851.15		A	1.6
7	☐	1.000		4220687.68		A	0.5
8	☐	1.000		3805999.59		A	0.3

US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40
AM
Inst Id :P8
LB :LB135886

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P805225 MS.b
Acq. Date-Time	2025-05-21 13:04:24
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		99395	993953.31			1.126	5.000
24		460718	4607181.47			1.204	5.000
25		66323	663226.16			1.340	5.000
26		71943	719429.58			1.174	5.000
59		418539	4185390.12			1.269	5.000
113		51533	515327.40			1.658	5.000
115		654952	6549521.46			1.093	5.000
206		146703	1467031.91			1.664	5.000
207		121883	1218826.18			1.029	5.000
208		300852	3008516.40			1.565	5.000
220		0	4.90			31.780	

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	99425	99425	97650	99721	100756
24	454387	458603	457735	467897	464968
25	66171	66534	64867	67034	67007
26	71166	72184	70941	72648	72775
59	417745	421870	409735	420265	423081
113	51166	51452	50339	52302	52405
115	660615	658380	642757	654562	658447
206	145993	143861	145200	149568	148894
207	121460	120635	121125	123817	122376
208	296214	297555	298867	307062	304559

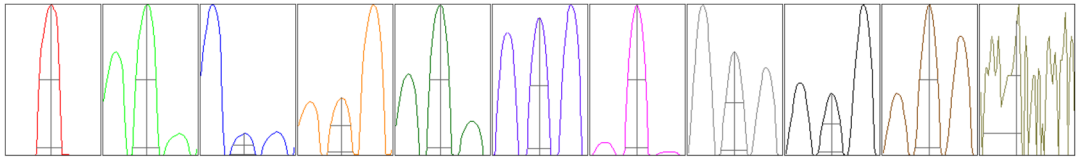
US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40 AM
Inst Id :P8
LB :LB135886

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	162982.39	8.95	8.90 - 9.10	
24	771293.44	23.90	23.90 - 24.10	
25	108500.56	24.90	24.90 - 25.10	
26	117237.47	25.90	25.90 - 26.10	
59	713137.66	58.95	58.90 - 59.10	
113	97672.66	113.00	112.90 - 113.10	
115	1233507.41	115.00	114.90 - 115.10	
206	267092.40	206.00	205.90 - 206.10	
207	228245.03	207.00	206.90 - 207.10	
208	553366.72	208.00	207.90 - 208.10	
220	0.85	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.787	0.900	
24	0.65	0.827	0.900	
25	0.65	0.798	0.900	
26	0.65	0.806	0.900	
59	0.63	0.785	0.900	
113	0.56	0.733	0.900	
115	0.56	0.735	0.900	
206	0.57	0.821	0.900	
207	0.56	0.785	0.900	
208	0.57	0.800	0.900	
220	0.31	1.216		

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

Reviewed By:Janv
On:5/23/2025 9:40 AM
Inst Id :P8
LB :LB135886

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	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	15.0 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-70 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	130 V		

QP Parameters

Mass Gain	105	Axis Gain	0.9968	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.3 mm

EM

Discriminator	4.5 mV	Analog HV	2174 V	Pulse HV	965 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		80699	806986.91			0.952	
89		68694	686935.35			1.175	
205		87327	873270.09			0.995	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	80629	81076	81757	80297	79734
89	68728	69238	69710	67913	67878
205	87756	87985	88084	86153	86656

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	2.4 V

US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40
AM
Inst Id :P8
LB :LB135886

Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-70 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	180 V		

QP Parameters

Mass Gain	105	Axis Gain	0.9968	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.3 mm		

EM

Discriminator	4.5 mV	Analog HV	2174 V	Pulse HV	965 V

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.12	0.08	-0.20	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.01	-0.01	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.04	-0.03	0.00	0.00	N/A	ppb
Cadmium	106-1	-0.01	0.25	-0.24	0.00	N/A	ppb
Cadmium	111-1	0.00	0.02	-0.02	0.00	N/A	ppb
Calcium	43-1	0.36	-0.43	0.08	0.00	N/A	ppb
Calcium	44-1	0.04	0.23	-0.26	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	-0.01	0.00	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	4.09	-1.86	-2.23	0.00	N/A	ppb
Iron	56-2	0.03	-0.01	-0.02	0.00	N/A	ppb
Iron	57-2	0.36	0.15	-0.51	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	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	-0.22	0.18	0.04	0.00	N/A	ppb
Manganese	55-2	-0.03	-0.02	0.05	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.01	-0.02	0.00	N/A	ppb
Phosphorus	31-2	-121.06	-114.11	-121.75	-118.97		ppb
Potassium	39-2	0.46	0.52	-0.98	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.05	-0.02	0.07	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.47	-0.16	-0.31	0.00	N/A	ppb
Silicon	28-1	0.10	-0.09	-0.01	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	-0.24	-0.08	0.32	0.00	N/A	ppb
Strontium	86-1	-0.07	0.03	0.04	0.00	N/A	ppb
Strontium	88-1	0.00	0.02	-0.02	0.00	N/A	ppb
Sulfur	34-1	-203.98	-247.29	-90.27	-180.52		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	-0.01	0.00	N/A	ppb
Titanium	47-1	0.00	0.00	0.00	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	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	0.03	0.01	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.13	19.92	19.28	19.44	2.15	ppb
Antimony	121-1	2.00	2.00	2.05	2.02	1.34	ppb
Arsenic	75-2	1.11	1.04	1.10	1.08	3.30	ppb
Barium	135-1	9.87	9.74	9.95	9.85	1.10	ppb
Barium	137-1	9.86	10.01	9.94	9.94	0.73	ppb
Beryllium	9-1	1.15	1.21	1.21	1.19	2.97	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.87	0.91	0.93	0.90	3.71	ppb
Cadmium	106-1	0.75	0.54	1.38	0.89	49.18	ppb
Cadmium	111-1	0.88	0.87	1.00	0.92	8.00	ppb
Calcium	43-1	480.70	469.31	500.68	483.56	3.28	ppb
Calcium	44-1	488.22	474.27	494.36	485.62	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.97	1.99	1.98	1.98	0.56	ppb
Cobalt	59-2	1.10	1.10	1.08	1.09	1.23	ppb
Copper	63-2	2.21	2.18	2.16	2.18	1.09	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				100		%
Iron	54-2	51.65	51.67	51.71	51.68	0.06	ppb
Iron	56-2	50.93	52.95	49.88	51.26	3.04	ppb
Iron	57-2	50.14	55.86	52.01	52.67	5.53	ppb
Krypton	83-1						cps
Lead	206-1	0.78	0.79	0.80	0.79	1.32	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.79	0.84	0.84	0.82	2.99	ppb
Lead	208-1	0.79	0.81	0.82	0.81	1.96	ppb
Lithium	6-1				102		%
Magnesium	24-2	521.12	529.33	517.18	522.54	1.19	ppb
Manganese	55-2	1.06	1.09	1.02	1.06	3.42	ppb
Molybdenum	94-1	5.85	5.83	5.92	5.87	0.81	ppb
Molybdenum	95-1	4.91	4.79	4.85	4.85	1.20	ppb
Molybdenum	96-1	4.93	4.98	4.79	4.90	1.97	ppb
Molybdenum	97-1	4.84	4.87	4.83	4.85	0.43	ppb
Molybdenum	98-1	4.80	4.87	4.77	4.81	1.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.90	1.04	0.90	0.95	8.26	ppb
Phosphorus	31-2	113.09	129.73	114.10	118.97	7.84	ppb
Potassium	39-2	492.34	496.00	475.30	487.88	2.27	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	5.43	5.30	4.84	5.19	5.97	ppb
Selenium	77-2	5.54	6.23	6.65	6.14	9.18	ppb
Selenium	78-2	4.20	3.90	5.52	4.54	18.98	ppb
Silicon	28-1	0.66	0.55	0.78	0.66	17.28	ppb
Silver	107-1	1.08	1.07	1.12	1.09	2.27	ppb
Silver	109-1	1.07	1.12	1.08	1.09	2.25	ppb
Sodium	23-2	499.11	508.96	491.47	499.84	1.75	ppb
Strontium	86-1	24.43	23.34	23.45	23.74	2.54	ppb
Strontium	88-1	24.35	24.68	24.29	24.44	0.84	ppb
Sulfur	34-1	246.96	21.13	273.46	180.52	76.82	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.92	0.93	0.96	0.94	2.08	ppb
Thallium	205-1	0.93	0.97	0.96	0.96	2.13	ppb
Tin	118-1	4.96	5.00	5.04	5.00	0.75	ppb
Titanium	47-1	5.17	5.16	5.32	5.22	1.77	ppb
Uranium	238-1	0.88	0.92	0.91	0.91	2.05	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.03	5.04	4.98	5.01	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	5.20	5.70	5.15	5.35	5.65	ppb
Zirconium	90-1	1.03	1.03	1.03	1.03	0.48	ppb
Zirconium	91-1	1.04	1.03	1.00	1.02	1.73	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1056.04	1042.88	1046.94	1048.62	0.64	ppb
Antimony	121-1	49.04	51.02	51.17	50.41	2.36	ppb
Arsenic	75-2	49.65	50.89	52.87	51.13	3.17	ppb
Barium	135-1	243.89	252.36	251.42	249.22	1.86	ppb
Barium	137-1	253.31	265.02	263.48	260.60	2.44	ppb
Beryllium	9-1	55.72	57.38	56.68	56.59	1.47	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	53.28	53.56	55.71	54.18	2.45	ppb
Cadmium	106-1	51.11	55.55	55.17	53.94	4.56	ppb
Cadmium	111-1	51.04	52.78	52.79	52.20	1.93	ppb
Calcium	43-1	5122.36	5043.32	5185.37	5117.02	1.39	ppb
Calcium	44-1	4989.69	4857.02	5096.15	4980.95	2.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.16	52.42	51.90	52.16	0.49	ppb
Cobalt	59-2	53.73	52.50	53.72	53.32	1.32	ppb
Copper	63-2	564.13	561.15	567.94	564.40	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				101		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	54-2	2673.67	2668.58	2622.93	2655.06	1.05	ppb
Iron	56-2	2583.55	2593.16	2581.45	2586.05	0.24	ppb
Iron	57-2	2562.40	2583.99	2613.46	2586.62	0.99	ppb
Krypton	83-1						cps
Lead	206-1	251.35	255.15	250.76	252.42	0.94	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	251.11	257.26	253.74	254.04	1.21	ppb
Lead	208-1	247.77	251.26	249.73	249.59	0.70	ppb
Lithium	6-1				103		%
Magnesium	24-2	5319.51	5257.23	5282.82	5286.52	0.59	ppb
Manganese	55-2	521.23	524.73	512.51	519.49	1.21	ppb
Molybdenum	94-1	503.24	497.35	505.08	501.89	0.80	ppb
Molybdenum	95-1	501.48	491.26	512.83	501.86	2.15	ppb
Molybdenum	96-1	493.72	501.78	500.69	498.73	0.88	ppb
Molybdenum	97-1	493.68	506.38	500.04	500.04	1.27	ppb
Molybdenum	98-1	502.98	508.17	509.16	506.77	0.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.07	52.93	52.91	52.97	0.16	ppb
Phosphorus	31-2	883.96	968.80	900.45	917.74	4.90	ppb
Potassium	39-2	2549.58	2563.57	2587.94	2567.03	0.76	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	51.10	53.68	52.14	52.31	2.49	ppb
Selenium	77-2	50.57	52.93	52.89	52.13	2.60	ppb
Selenium	78-2	54.19	49.74	45.89	49.94	8.32	ppb
Silicon	28-1	53.60	52.36	51.90	52.62	1.67	ppb
Silver	107-1	51.51	55.95	55.02	54.16	4.32	ppb
Silver	109-1	51.35	54.00	54.12	53.16	2.94	ppb
Sodium	23-2	5208.12	5224.58	5176.00	5202.90	0.47	ppb
Strontium	86-1	1211.78	1262.08	1230.89	1234.92	2.06	ppb
Strontium	88-1	1269.31	1266.75	1256.62	1264.22	0.53	ppb
Sulfur	34-1	1325.96	1271.67	1404.90	1334.18	5.02	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	47.67	47.87	48.21	47.92	0.56	ppb
Thallium	205-1	49.41	49.70	50.27	49.79	0.88	ppb
Tin	118-1	49.78	51.61	51.59	51.00	2.06	ppb
Titanium	47-1	520.91	505.48	512.93	513.11	1.50	ppb
Uranium	238-1	47.66	48.16	48.33	48.05	0.72	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.90	52.12	52.45	52.16	0.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	533.50	528.47	532.80	531.59	0.51	ppb
Zirconium	90-1	50.73	51.16	50.73	50.88	0.49	ppb
Zirconium	91-1	48.64	49.82	49.25	49.24	1.20	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2603.79	2604.83	2556.16	2588.26	1.07	ppb
Antimony	121-1	125.51	128.07	127.30	126.96	1.03	ppb
Arsenic	75-2	126.01	129.90	126.55	127.48	1.65	ppb
Barium	135-1	635.06	634.38	633.32	634.26	0.14	ppb
Barium	137-1	639.82	632.01	637.30	636.38	0.63	ppb
Beryllium	9-1	136.43	134.65	138.40	136.49	1.37	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	130.14	130.84	130.89	130.63	0.32	ppb
Cadmium	106-1	128.77	130.38	132.39	130.52	1.39	ppb
Cadmium	111-1	126.78	126.26	128.22	127.09	0.80	ppb
Calcium	43-1	12703.54	12588.97	12735.71	12676.07	0.61	ppb
Calcium	44-1	12447.04	12132.12	12447.05	12342.07	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	126.44	127.29	125.78	126.50	0.60	ppb
Cobalt	59-2	129.17	130.40	127.99	129.19	0.93	ppb
Copper	63-2	1318.04	1332.51	1311.78	1320.78	0.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				98		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	6487.46	6583.40	6440.23	6503.70	1.12	ppb
Iron	56-2	6444.24	6447.13	6270.84	6387.40	1.58	ppb
Iron	57-2	6343.72	6407.84	6328.95	6360.17	0.66	ppb
Krypton	83-1						cps
Lead	206-1	604.91	612.93	612.63	610.16	0.75	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	611.36	606.00	616.74	611.37	0.88	ppb
Lead	208-1	616.15	609.63	612.24	612.67	0.54	ppb
Lithium	6-1				104		%
Magnesium	24-2	13077.71	12992.75	12539.19	12869.88	2.25	ppb
Manganese	55-2	1299.74	1314.31	1296.73	1303.59	0.72	ppb
Molybdenum	94-1	1246.64	1235.13	1253.10	1244.96	0.73	ppb
Molybdenum	95-1	1260.98	1247.15	1267.42	1258.52	0.82	ppb
Molybdenum	96-1	1245.60	1230.39	1249.60	1241.86	0.82	ppb
Molybdenum	97-1	1236.14	1218.75	1245.14	1233.34	1.09	ppb
Molybdenum	98-1	1240.94	1249.32	1243.23	1244.50	0.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	126.77	127.76	125.07	126.53	1.08	ppb
Phosphorus	31-2	2524.02	2475.68	2449.81	2483.17	1.52	ppb
Potassium	39-2	6356.28	6362.24	6339.16	6352.56	0.19	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	129.22	127.28	129.31	128.61	0.89	ppb
Selenium	77-2	132.63	140.85	128.91	134.13	4.56	ppb
Selenium	78-2	127.54	142.46	130.73	133.58	5.88	ppb
Silicon	28-1	134.59	129.48	132.60	132.22	1.95	ppb
Silver	107-1	133.35	134.23	136.05	134.55	1.02	ppb
Silver	109-1	134.76	134.43	136.87	135.36	0.98	ppb
Sodium	23-2	12922.82	12708.35	12440.87	12690.68	1.90	ppb
Strontium	86-1	3046.04	3034.61	3082.38	3054.34	0.82	ppb
Strontium	88-1	3110.25	3069.68	3121.52	3100.48	0.88	ppb
Sulfur	34-1	3439.98	3168.60	3325.64	3311.41	4.11	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	122.51	124.42	124.62	123.85	0.94	ppb
Thallium	205-1	121.51	122.97	121.14	121.87	0.79	ppb
Tin	118-1	126.11	128.03	127.94	127.36	0.85	ppb
Titanium	47-1	1272.71	1233.90	1271.34	1259.31	1.75	ppb
Uranium	238-1	120.43	120.86	117.48	119.59	1.54	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	125.38	127.02	127.36	126.59	0.84	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	1284.64	1304.78	1279.30	1289.57	1.04	ppb
Zirconium	90-1	124.90	123.35	124.25	124.17	0.63	ppb
Zirconium	91-1	120.56	122.81	123.86	122.41	1.38	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5204.10	5277.16	5169.92	5217.06	1.05	ppb
Antimony	121-1	248.80	258.83	255.73	254.45	2.02	ppb
Arsenic	75-2	255.84	251.16	254.60	253.87	0.96	ppb
Barium	135-1	1245.70	1280.72	1284.78	1270.40	1.69	ppb
Barium	137-1	1226.73	1294.61	1274.01	1265.12	2.75	ppb
Beryllium	9-1	259.64	262.08	264.05	261.92	0.84	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	256.42	264.69	267.29	262.80	2.16	ppb
Cadmium	106-1	253.99	263.36	260.47	259.27	1.85	ppb
Cadmium	111-1	249.26	257.24	255.89	254.13	1.68	ppb
Calcium	43-1	25372.38	25307.80	24497.68	25059.29	1.95	ppb
Calcium	44-1	24406.22	24818.22	24660.27	24628.24	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	252.88	254.91	253.85	253.88	0.40	ppb
Cobalt	59-2	267.74	265.73	267.48	266.98	0.41	ppb
Copper	63-2	2649.36	2658.84	2630.28	2646.16	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				96		%
Indium	115-1				93		%
Indium	115-2				88		%
Iron	54-2	13241.97	13377.59	13174.84	13264.80	0.78	ppb
Iron	56-2	12916.95	13006.49	12729.62	12884.35	1.10	ppb
Iron	57-2	12776.79	12661.07	12679.86	12705.91	0.49	ppb
Krypton	83-1						cps
Lead	206-1	1221.39	1238.37	1224.48	1228.08	0.74	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1224.46	1249.76	1255.36	1243.19	1.32	ppb
Lead	208-1	1221.64	1247.45	1255.95	1241.68	1.44	ppb
Lithium	6-1				101		%
Magnesium	24-2	26038.10	25957.68	26309.66	26101.81	0.71	ppb
Manganese	55-2	2606.85	2593.20	2585.65	2595.23	0.41	ppb
Molybdenum	94-1	2515.61	2522.37	2517.22	2518.40	0.14	ppb
Molybdenum	95-1	2489.20	2515.82	2490.76	2498.59	0.60	ppb
Molybdenum	96-1	2479.01	2544.95	2518.53	2514.16	1.32	ppb
Molybdenum	97-1	2476.43	2548.38	2500.33	2508.38	1.46	ppb
Molybdenum	98-1	2500.05	2531.00	2491.21	2507.42	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	255.92	255.61	254.69	255.41	0.25	ppb
Phosphorus	31-2	5143.37	5214.89	5020.62	5126.29	1.92	ppb
Potassium	39-2	12771.33	12743.49	12832.05	12782.29	0.35	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	256.38	260.33	258.66	258.46	0.77	ppb
Selenium	77-2	249.54	240.00	261.17	250.24	4.24	ppb
Selenium	78-2	248.94	266.19	262.04	259.06	3.47	ppb
Silicon	28-1	261.67	261.70	260.36	261.24	0.29	ppb
Silver	107-1	260.68	265.19	264.88	263.58	0.96	ppb
Silver	109-1	257.32	270.24	264.64	264.07	2.45	ppb
Sodium	23-2	25650.71	25496.38	26250.24	25799.11	1.54	ppb
Strontium	86-1	6436.03	6419.72	6395.40	6417.05	0.32	ppb
Strontium	88-1	6177.38	6320.24	6350.42	6282.68	1.47	ppb
Sulfur	34-1	4974.78	4959.74	4811.70	4915.41	1.83	ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	249.08	247.96	246.66	247.90	0.49	ppb
Thallium	205-1	248.21	246.83	246.23	247.09	0.41	ppb
Tin	118-1	248.56	256.17	257.40	254.04	1.88	ppb
Titanium	47-1	2494.43	2531.33	2499.98	2508.58	0.79	ppb
Uranium	238-1	238.42	245.66	244.58	242.89	1.61	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	251.36	256.14	252.23	253.24	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	2686.99	2682.53	2679.62	2683.05	0.14	ppb
Zirconium	90-1	249.73	251.97	249.25	250.32	0.58	ppb
Zirconium	91-1	255.11	257.12	253.73	255.32	0.67	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10017.62	9918.41	10428.19	10121.41	2.67	ppb
Antimony	121-1	494.16	509.55	507.84	503.85	1.67	ppb
Arsenic	75-2	505.87	489.21	517.11	504.06	2.79	ppb
Barium	135-1	2432.58	2509.13	2554.10	2498.60	2.46	ppb
Barium	137-1	2463.61	2527.87	2535.22	2508.90	1.57	ppb
Beryllium	9-1	487.42	511.49	505.59	501.50	2.50	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	497.26	510.91	515.07	507.75	1.83	ppb
Cadmium	106-1	500.09	511.80	510.72	507.54	1.28	ppb
Cadmium	111-1	504.97	527.49	522.53	518.33	2.28	ppb
Calcium	43-1	50526.26	49242.58	50300.38	50023.07	1.37	ppb
Calcium	44-1	49026.37	49463.42	50521.73	49670.51	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	508.93	496.19	515.33	506.82	1.92	ppb
Cobalt	59-2	507.09	506.88	523.89	512.62	1.90	ppb
Copper	63-2	5035.69	4957.42	5229.15	5074.09	2.76	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				98		%
Holmium	165-2				96		%
Indium	115-1				90		%
Indium	115-2				85		%
Iron	54-2	25477.38	24579.73	26076.51	25377.87	2.97	ppb
Iron	56-2	24842.59	24681.78	25433.10	24985.82	1.58	ppb
Iron	57-2	25448.47	25682.25	25948.33	25693.02	0.97	ppb
Krypton	83-1						cps
Lead	206-1	2484.04	2536.02	2539.46	2519.84	1.23	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2438.42	2503.50	2566.70	2502.87	2.56	ppb
Lead	208-1	2445.46	2511.70	2556.55	2504.57	2.23	ppb
Lithium	6-1				100		%
Magnesium	24-2	50371.23	49599.13	51272.06	50414.14	1.66	ppb
Manganese	55-2	4939.47	4893.83	5063.10	4965.47	1.76	ppb
Molybdenum	94-1	4998.77	5137.27	5125.07	5087.04	1.51	ppb
Molybdenum	95-1	5050.39	5115.56	5055.84	5073.93	0.71	ppb
Molybdenum	96-1	4958.90	5118.22	5141.63	5072.92	1.96	ppb
Molybdenum	97-1	4927.25	5158.73	5096.79	5060.92	2.37	ppb
Molybdenum	98-1	4947.81	5068.01	5072.20	5029.34	1.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	481.42	475.98	499.62	485.67	2.55	ppb
Phosphorus	31-2	9928.58	9796.68	10345.50	10023.59	2.86	ppb
Potassium	39-2	24838.03	24507.28	24775.47	24706.93	0.71	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	508.69	511.17	526.28	515.38	1.85	ppb
Selenium	77-2	516.71	489.53	542.70	516.31	5.15	ppb
Selenium	78-2	509.79	492.71	533.45	511.99	4.00	ppb
Silicon	28-1	512.36	519.24	507.18	512.92	1.18	ppb
Silver	107-1	505.62	504.07	518.88	509.52	1.60	ppb
Silver	109-1	505.68	513.63	521.64	513.65	1.55	ppb
Sodium	23-2	50323.10	48808.13	50529.17	49886.80	1.88	ppb
Strontium	86-1	12536.67	12586.39	12655.20	12592.75	0.47	ppb
Strontium	88-1	12465.05	12693.62	12738.07	12632.25	1.16	ppb
Sulfur	34-1	10075.15	10285.91	9812.19	10057.75	2.36	ppb
Terbium	159-1				97		%
Terbium	159-2				93		%
Thallium	203-1	495.89	498.18	507.44	500.51	1.22	ppb
Thallium	205-1	500.45	503.45	509.29	504.39	0.89	ppb
Tin	118-1	492.41	510.82	507.65	503.62	1.95	ppb
Titanium	47-1	4973.10	5107.54	5111.70	5064.11	1.56	ppb
Uranium	238-1	487.68	495.79	505.16	496.21	1.76	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	509.59	486.81	509.42	501.94	2.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				91		%
Zinc	66-2	5093.25	5086.71	5289.37	5156.44	2.23	ppb
Zirconium	90-1	496.50	506.87	506.87	503.41	1.19	ppb
Zirconium	91-1	505.63	515.33	507.32	509.43	1.02	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20251.58	19980.87	20322.88	20185.11	0.89	ppb
Antimony	121-1	998.88	986.47	1004.73	996.70	0.94	ppb
Arsenic	75-2	991.58	1023.65	974.68	996.63	2.50	ppb
Barium	135-1	4979.21	4916.45	5087.78	4994.48	1.74	ppb
Barium	137-1	4975.55	4905.61	5088.30	4989.82	1.85	ppb
Beryllium	9-1	989.67	1021.13	972.70	994.50	2.47	ppb
Bismuth	209-1				91		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	987.33	981.45	1007.26	992.01	1.36	ppb
Cadmium	106-1	991.55	975.42	1012.11	993.03	1.85	ppb
Cadmium	111-1	984.06	964.59	1019.64	989.43	2.82	ppb
Calcium	43-1	99061.23	100331.84	97713.40	99035.49	1.32	ppb
Calcium	44-1	98000.34	99337.31	96328.54	97888.73	1.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1007.82	981.86	996.30	995.33	1.31	ppb
Cobalt	59-2	1017.87	980.11	968.28	988.75	2.62	ppb
Copper	63-2	10167.16	9880.40	9695.49	9914.35	2.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				93		%
Indium	115-1				86		%
Indium	115-2				77		%
Iron	54-2	51171.19	50535.84	49069.09	50258.71	2.15	ppb
Iron	56-2	50337.60	48629.00	49639.16	49535.25	1.73	ppb
Iron	57-2	50538.95	48239.56	49403.28	49393.93	2.33	ppb
Krypton	83-1						cps
Lead	206-1	4941.11	5044.21	5006.56	4997.29	1.04	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4949.77	5061.22	4994.31	5001.77	1.12	ppb
Lead	208-1	4967.89	5043.41	4992.76	5001.36	0.77	ppb
Lithium	6-1				95		%
Magnesium	24-2	100898.06	99837.55	98709.85	99815.15	1.10	ppb
Manganese	55-2	10197.70	9799.49	9960.16	9985.78	2.01	ppb
Molybdenum	94-1	9943.67	9955.67	9957.91	9952.42	0.08	ppb
Molybdenum	95-1	10002.51	10010.62	9873.55	9962.23	0.77	ppb
Molybdenum	96-1	10036.73	10023.62	9822.90	9961.08	1.20	ppb
Molybdenum	97-1	9840.32	10065.23	10003.02	9969.52	1.16	ppb
Molybdenum	98-1	9991.09	9982.34	9978.04	9983.82	0.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1033.26	982.60	1000.55	1005.47	2.55	ppb
Phosphorus	31-2	20123.55	19864.90	19900.11	19962.85	0.70	ppb
Potassium	39-2	48841.43	48860.54	47560.38	48420.78	1.54	ppb
Rhodium	103-1				84		%
Rhodium	103-2				84		%
Scandium	45-1				89		%
Scandium	45-2				92		%
Selenium	82-1	992.19	988.03	988.67	989.63	0.23	ppb
Selenium	77-2	987.70	1033.93	949.97	990.53	4.25	ppb
Selenium	78-2	997.06	1012.56	962.40	990.68	2.59	ppb
Silicon	28-1	1007.85	983.61	977.90	989.79	1.61	ppb
Silver	107-1	994.20	985.59	991.54	990.44	0.44	ppb
Silver	109-1	982.18	979.42	1003.02	988.21	1.31	ppb
Sodium	23-2	100173.04	99302.53	98755.75	99410.44	0.72	ppb
Strontium	86-1	24855.29	24605.95	25255.09	24905.44	1.31	ppb
Strontium	88-1	24926.93	25174.45	24636.98	24912.79	1.08	ppb
Sulfur	34-1	20382.56	19661.63	19578.23	19874.14	2.23	ppb
Terbium	159-1				95		%
Terbium	159-2				91		%
Thallium	203-1	989.52	1011.63	1000.41	1000.52	1.11	ppb
Thallium	205-1	985.31	1010.88	1000.61	998.93	1.29	ppb
Tin	118-1	992.42	998.71	999.37	996.83	0.38	ppb
Titanium	47-1	9975.19	10099.89	9816.85	9963.98	1.42	ppb
Uranium	238-1	980.09	1018.43	1014.82	1004.45	2.11	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1026.03	996.38	971.32	997.91	2.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				89		%
Zinc	66-2	10069.56	9809.91	9728.99	9869.49	1.80	ppb
Zirconium	90-1	993.15	992.19	1009.48	998.28	0.97	ppb
Zirconium	91-1	995.18	998.05	989.72	994.32	0.43	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100810.08	98524.81	100476.99	99937.29	1.24	ppb
Antimony	121-1	0.54	0.49	0.49	0.51	6.00	ppb
Arsenic	75-2	0.47	0.49	0.52	0.50	4.68	ppb
Barium	135-1	2.25	2.28	2.31	2.28	1.26	ppb
Barium	137-1	2.36	2.27	2.34	2.33	2.06	ppb
Beryllium	9-1	0.20	0.16	0.13	0.16	22.17	ppb
Bismuth	209-1				81		%
Bismuth	209-2				77		%
Bromine	81-1						cps
Cadmium	108-1	0.48	0.50	0.60	0.53	12.23	ppb
Cadmium	106-1	-0.71	-0.39	-0.23	-0.44		ppb
Cadmium	111-1	0.10	0.12	0.13	0.12	11.39	ppb
Calcium	43-1	500625.06	500925.95	498995.22	500182.07	0.21	ppb
Calcium	44-1	502121.69	497205.53	502106.62	500477.94	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.30	1.31	1.29	1.30	0.57	ppb
Cobalt	59-2	1.19	1.16	1.10	1.15	3.87	ppb
Copper	63-2	1.47	1.43	1.47	1.46	1.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				89		%
Indium	115-1				81		%
Indium	115-2				76		%
Iron	54-2	250559.56	247135.69	251897.77	249864.34	0.98	ppb
Iron	56-2	251907.51	247918.75	250386.30	250070.85	0.80	ppb
Iron	57-2	253490.09	243858.88	252765.02	250038.00	2.15	ppb
Krypton	83-1						cps
Lead	206-1	3.98	3.89	3.93	3.93	1.08	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.05	3.93	3.90	3.96	2.07	ppb
Lead	208-1	3.96	3.93	3.91	3.93	0.73	ppb
Lithium	6-1				86		%
Magnesium	24-2	509443.19	492273.59	498068.21	499928.33	1.75	ppb
Manganese	55-2	2.36	2.40	2.47	2.41	2.22	ppb
Molybdenum	94-1	2.60	2.56	2.55	2.57	1.17	ppb
Molybdenum	95-1	1.39	1.29	1.21	1.30	6.71	ppb
Molybdenum	96-1	2.31	2.25	2.17	2.24	3.17	ppb
Molybdenum	97-1	1.36	1.22	1.14	1.24	9.18	ppb
Molybdenum	98-1	1.26	1.17	1.07	1.17	8.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.36	2.40	2.43	2.40	1.48	ppb
Phosphorus	31-2	-116.01	-111.36	-110.03	-112.47		ppb
Potassium	39-2	250373.00	247268.06	253342.42	250327.83	1.21	ppb
Rhodium	103-1				75		%
Rhodium	103-2				75		%
Scandium	45-1				84		%
Scandium	45-2				85		%
Selenium	82-1	0.79	0.90	0.71	0.80	11.99	ppb
Selenium	77-2	1.20	0.60	0.61	0.80	42.96	ppb
Selenium	78-2	0.50	0.14	0.52	0.39	54.59	ppb
Silicon	28-1	0.58	1.39	1.30	1.09	40.55	ppb
Silver	107-1	0.12	0.10	0.09	0.10	10.27	ppb
Silver	109-1	0.11	0.10	0.09	0.10	8.71	ppb
Sodium	23-2	506962.50	500539.69	492745.25	500082.48	1.42	ppb
Strontium	86-1	83.02	85.68	85.57	84.76	1.78	ppb
Strontium	88-1	83.57	86.02	85.35	84.98	1.49	ppb
Sulfur	34-1	-749.01	-744.65	-810.99	-768.22		ppb
Terbium	159-1				90		%
Terbium	159-2				87		%
Thallium	203-1	0.09	0.08	0.08	0.08	5.68	ppb
Thallium	205-1	0.10	0.08	0.07	0.08	13.19	ppb
Tin	118-1	0.16	0.14	0.14	0.15	7.97	ppb
Titanium	47-1	1.03	0.94	0.90	0.96	7.27	ppb
Uranium	238-1	0.06	0.05	0.04	0.05	18.67	ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.30	0.29	0.28	0.29	2.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				86		%
Zinc	66-2	45.13	43.85	45.20	44.73	1.70	ppb
Zirconium	90-1	0.80	0.84	0.80	0.81	3.15	ppb
Zirconium	91-1	0.83	0.81	0.82	0.82	0.87	ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	476.64	464.59	469.58	470.27	1.29	ppb
Antimony	121-1	196.60	196.38	198.07	197.02	0.47	ppb
Arsenic	75-2	199.24	198.68	194.91	197.61	1.19	ppb
Barium	135-1	97.43	97.37	98.43	97.74	0.61	ppb
Barium	137-1	99.04	99.28	99.16	99.16	0.12	ppb
Beryllium	9-1	107.36	107.67	103.41	106.15	2.23	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	85.61	86.15	86.77	86.18	0.67	ppb
Cadmium	106-1	81.22	82.23	82.87	82.10	1.01	ppb
Cadmium	111-1	99.75	101.56	101.73	101.01	1.08	ppb
Calcium	43-1	1889.33	1906.66	1857.83	1884.61	1.31	ppb
Calcium	44-1	1886.74	1896.61	1857.96	1880.44	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.88	100.72	100.03	100.54	0.45	ppb
Cobalt	59-2	105.28	104.58	105.13	105.00	0.35	ppb
Copper	63-2	108.22	108.13	107.49	107.95	0.37	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	2076.43	2059.50	2043.08	2059.67	0.81	ppb
Iron	56-2	1990.65	2003.73	2001.59	1998.66	0.35	ppb
Iron	57-2	1965.58	1962.42	1970.00	1966.00	0.19	ppb
Krypton	83-1						cps
Lead	206-1	207.24	202.21	208.00	205.82	1.53	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	201.54	199.77	203.36	201.56	0.89	ppb
Lead	208-1	201.76	201.25	206.35	203.12	1.38	ppb
Lithium	6-1				103		%
Magnesium	24-2	1159.58	1167.54	1172.92	1166.68	0.58	ppb
Manganese	55-2	100.74	101.21	101.20	101.05	0.27	ppb
Molybdenum	94-1	0.11	0.09	0.12	0.11	13.50	ppb
Molybdenum	95-1	0.04	0.04	0.05	0.04	13.41	ppb
Molybdenum	96-1	0.07	0.05	0.06	0.06	11.84	ppb
Molybdenum	97-1	0.03	0.04	0.04	0.04	11.21	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	4.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	111.10	110.38	111.22	110.90	0.41	ppb
Phosphorus	31-2	-115.71	-117.49	-119.18	-117.46		ppb
Potassium	39-2	1930.00	1949.73	1919.83	1933.19	0.79	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	203.55	206.04	211.13	206.91	1.87	ppb
Selenium	77-2	192.96	226.78	204.11	207.95	8.29	ppb
Selenium	78-2	215.61	207.94	216.88	213.48	2.27	ppb
Silicon	28-1	-0.32	-0.18	-0.32	-0.27		ppb
Silver	107-1	46.66	47.64	48.40	47.57	1.83	ppb
Silver	109-1	47.32	48.21	48.20	47.91	1.06	ppb
Sodium	23-2	1969.24	1928.65	1936.92	1944.93	1.10	ppb
Strontium	86-1	5.59	5.17	6.08	5.61	8.11	ppb
Strontium	88-1	5.97	5.96	5.97	5.97	0.12	ppb
Sulfur	34-1	-603.20	-630.64	-730.74	-654.86		ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	207.20	207.56	208.37	207.71	0.29	ppb
Thallium	205-1	206.34	204.60	207.20	206.04	0.64	ppb
Tin	118-1	0.02	0.03	0.03	0.03	20.74	ppb
Titanium	47-1	0.03	0.03	0.03	0.03	15.21	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	99.85	98.35	97.51	98.57	1.20	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	211.70	210.90	212.62	211.74	0.40	ppb
Zirconium	90-1	0.02	0.03	0.03	0.03	14.34	ppb
Zirconium	91-1	0.10	0.09	0.09	0.09	4.95	ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.75	20.14	20.61	19.83	4.87	ppb
Antimony	121-1	1.95	1.93	2.01	1.96	2.08	ppb
Arsenic	75-2	0.98	1.08	0.92	1.00	8.10	ppb
Barium	135-1	9.40	9.36	9.54	9.43	0.99	ppb
Barium	137-1	9.54	9.59	9.89	9.67	1.97	ppb
Beryllium	9-1	1.16	1.09	1.17	1.14	3.48	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.87	0.88	0.84	0.86	2.67	ppb
Cadmium	106-1	0.38	0.31	1.04	0.58	70.01	ppb
Cadmium	111-1	0.88	0.86	0.96	0.90	6.20	ppb
Calcium	43-1	469.43	487.61	468.15	475.06	2.29	ppb
Calcium	44-1	471.31	481.50	474.93	475.91	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.02	1.97	1.98	1.99	1.34	ppb
Cobalt	59-2	1.07	1.08	1.05	1.07	1.04	ppb
Copper	63-2	2.08	2.18	2.14	2.14	2.25	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	54-2	48.81	50.38	51.21	50.13	2.43	ppb
Iron	56-2	50.01	50.90	51.16	50.69	1.19	ppb
Iron	57-2	49.16	51.25	48.13	49.51	3.21	ppb
Krypton	83-1						cps
Lead	206-1	0.82	0.84	0.85	0.84	1.92	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.83	0.86	0.83	0.84	2.03	ppb
Lead	208-1	0.82	0.84	0.83	0.83	1.26	ppb
Lithium	6-1				104		%
Magnesium	24-2	496.39	500.51	501.79	499.56	0.56	ppb
Manganese	55-2	0.84	0.98	0.91	0.91	7.65	ppb
Molybdenum	94-1	5.66	5.67	5.77	5.70	1.08	ppb
Molybdenum	95-1	4.69	4.61	4.77	4.69	1.68	ppb
Molybdenum	96-1	4.70	4.66	4.72	4.69	0.72	ppb
Molybdenum	97-1	4.54	4.60	4.74	4.63	2.25	ppb
Molybdenum	98-1	4.58	4.65	4.66	4.63	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.93	0.91	0.93	2.28	ppb
Phosphorus	31-2	116.79	106.83	120.63	114.75	6.21	ppb
Potassium	39-2	470.13	477.67	485.06	477.62	1.56	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	5.00	4.62	5.11	4.91	5.22	ppb
Selenium	77-2	5.13	4.68	6.67	5.49	19.02	ppb
Selenium	78-2	4.76	4.68	3.99	4.48	9.43	ppb
Silicon	28-1	0.19	0.58	0.31	0.36	55.06	ppb
Silver	107-1	1.08	1.05	1.11	1.08	2.71	ppb
Silver	109-1	1.07	1.07	1.09	1.08	1.09	ppb
Sodium	23-2	498.40	512.63	505.57	505.53	1.41	ppb
Strontium	86-1	24.24	22.68	23.26	23.40	3.37	ppb
Strontium	88-1	23.54	23.58	24.07	23.73	1.25	ppb
Sulfur	34-1	-277.67	-214.46	-308.60	-266.91		ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.94	0.94	0.92	0.93	1.18	ppb
Thallium	205-1	0.93	0.93	0.94	0.93	0.71	ppb
Tin	118-1	4.88	4.83	4.92	4.88	0.96	ppb
Titanium	47-1	5.09	5.32	5.18	5.20	2.25	ppb
Uranium	238-1	0.87	0.90	0.86	0.88	2.06	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.79	4.94	4.87	4.86	1.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	5.15	5.19	5.21	5.18	0.59	ppb
Zirconium	90-1	0.99	0.99	1.02	1.00	1.94	ppb
Zirconium	91-1	0.99	1.02	1.03	1.01	1.90	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.20	-0.03	-0.31	-0.05		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	11.34	ppb
Arsenic	75-2	-0.01	0.03	0.02	0.01	199.20	ppb
Barium	135-1	0.01	0.01	0.01	0.01	24.27	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	3.86	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	-0.02	0.01	-0.01		ppb
Cadmium	106-1	-0.56	0.39	-0.60	-0.26		ppb
Cadmium	111-1	-0.04	0.03	-0.05	-0.02		ppb
Calcium	43-1	-1.50	-1.02	-0.69	-1.07		ppb
Calcium	44-1	-0.74	-0.89	-0.98	-0.87		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.00	0.01	0.01	88.59	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.01	0.01	0.01	0.01	26.02	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				104		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	-1.36	-1.56	-1.74	-1.55		ppb
Iron	56-2	0.36	0.28	0.41	0.35	19.51	ppb
Iron	57-2	0.29	0.12	1.11	0.51	104.33	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.04	0.04	2.69	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.03	0.04	13.16	ppb
Lead	208-1	0.04	0.04	0.04	0.04	1.93	ppb
Lithium	6-1				104		%
Magnesium	24-2	0.60	0.31	0.46	0.45	32.26	ppb
Manganese	55-2	0.02	0.06	0.01	0.03	79.67	ppb
Molybdenum	94-1	0.04	0.02	0.03	0.03	37.21	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.01	62.65	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	16.98	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	29.59	ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	16.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.02	-0.01	-0.01		ppb
Phosphorus	31-2	-108.46	-112.72	-107.52	-109.57		ppb
Potassium	39-2	7.45	3.28	3.32	4.68	51.17	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	-0.12	-0.08	-0.10	-0.10		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.13	0.74	-0.03	0.28	143.08	ppb
Silicon	28-1	-0.17	-0.20	-0.34	-0.24		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.35	ppb
Silver	109-1	0.01	0.01	0.01	0.01	17.59	ppb
Sodium	23-2	16.61	14.67	14.83	15.37	7.02	ppb
Strontium	86-1	-0.16	-0.33	0.00	-0.17		ppb
Strontium	88-1	-0.01	0.02	0.00	0.00	339.00	ppb
Sulfur	34-1	-577.16	-617.95	-504.06	-566.39		ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.02	0.01	20.22	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.56	ppb
Tin	118-1	0.00	0.02	0.01	0.01	143.93	ppb
Titanium	47-1	0.00	0.02	0.01	0.01	79.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.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				103		%
Yttrium	89-2				103		%
Zinc	66-2	0.09	0.12	-0.01	0.07	95.53	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	24.98	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	17.91	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92268.87	92003.25	84919.87	89730.67	4.65	ppb
Antimony	121-1	1.04	1.09	1.07	1.07	2.19	ppb
Arsenic	75-2	0.23	0.27	0.38	0.29	26.96	ppb
Barium	135-1	1.34	1.41	1.38	1.38	2.48	ppb
Barium	137-1	1.40	1.40	1.42	1.41	0.59	ppb
Beryllium	9-1	0.32	0.32	0.28	0.30	7.23	ppb
Bismuth	209-1				93		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	13.00	12.63	12.67	12.77	1.58	ppb
Cadmium	106-1	-0.72	-1.04	-0.99	-0.91		ppb
Cadmium	111-1	0.48	0.45	0.44	0.46	3.87	ppb
Calcium	43-1	95832.24	97136.91	98256.18	97075.11	1.25	ppb
Calcium	44-1	95752.92	96642.74	98690.71	97028.79	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.93	19.39	18.91	19.41	2.63	ppb
Cobalt	59-2	1.15	1.18	1.11	1.15	2.76	ppb
Copper	63-2	7.79	7.59	7.30	7.56	3.32	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				101		%
Holmium	165-2				100		%
Indium	115-1				92		%
Indium	115-2				92		%
Iron	54-2	100466.75	98746.27	94808.41	98007.15	2.96	ppb
Iron	56-2	100739.71	100026.49	94354.08	98373.42	3.56	ppb
Iron	57-2	101119.27	96881.84	93566.37	97189.16	3.90	ppb
Krypton	83-1						cps
Lead	206-1	4.53	4.40	4.43	4.45	1.61	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.20	4.08	4.18	4.15	1.52	ppb
Lead	208-1	4.24	4.22	4.23	4.23	0.27	ppb
Lithium	6-1				99		%
Magnesium	24-2	95132.60	95847.43	89732.80	93570.94	3.57	ppb
Manganese	55-2	7.42	7.27	6.76	7.15	4.82	ppb
Molybdenum	94-1	1579.17	1598.24	1627.25	1601.55	1.51	ppb
Molybdenum	95-1	1945.86	1961.70	2012.87	1973.48	1.77	ppb
Molybdenum	96-1	1896.84	1888.22	1920.95	1902.01	0.89	ppb
Molybdenum	97-1	1907.04	1909.63	1970.79	1929.16	1.87	ppb
Molybdenum	98-1	1943.65	1932.80	1976.74	1951.06	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.40	5.45	5.02	5.29	4.41	ppb
Phosphorus	31-2	105739.25	104553.67	98640.67	102977.86	3.69	ppb
Potassium	39-2	100412.52	97764.08	93326.89	97167.83	3.68	ppb
Rhodium	103-1				88		%
Rhodium	103-2				91		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	0.11	0.14	0.02	0.09	71.61	ppb
Selenium	77-2	0.00	0.54	0.52	0.35	86.64	ppb
Selenium	78-2	-0.28	-0.12	0.16	-0.08		ppb
Silicon	28-1	1.86	2.20	1.96	2.01	8.51	ppb
Silver	107-1	0.06	0.05	0.04	0.05	16.19	ppb
Silver	109-1	0.06	0.05	0.04	0.05	19.25	ppb
Sodium	23-2	99701.43	99947.24	93115.40	97588.02	3.97	ppb
Strontium	86-1	810.09	818.74	830.17	819.67	1.23	ppb
Strontium	88-1	862.70	844.40	859.19	855.43	1.14	ppb
Sulfur	34-1	102103.09	99869.02	102257.35	101409.82	1.32	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.11	0.14	0.18	0.14	24.70	ppb
Thallium	205-1	0.11	0.14	0.17	0.14	22.59	ppb
Tin	118-1	0.22	0.21	0.18	0.20	9.43	ppb
Titanium	47-1	1999.69	2029.29	2046.74	2025.24	1.17	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	5.75	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.17	0.12	0.12	0.14	21.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	10.86	10.82	10.51	10.73	1.82	ppb
Zirconium	90-1	0.02	0.03	0.03	0.03	20.32	ppb
Zirconium	91-1	0.03	0.04	0.04	0.04	7.89	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88199.31	89047.03	89483.24	88909.86	0.73	ppb
Antimony	121-1	19.85	20.30	20.37	20.18	1.39	ppb
Arsenic	75-2	20.85	20.77	20.47	20.70	0.96	ppb
Barium	135-1	20.66	20.90	21.17	20.91	1.22	ppb
Barium	137-1	21.20	21.23	21.43	21.29	0.58	ppb
Beryllium	9-1	20.96	21.98	22.02	21.66	2.76	ppb
Bismuth	209-1				93		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	29.76	28.90	29.20	29.29	1.50	ppb
Cadmium	106-1	13.28	15.05	13.55	13.96	6.84	ppb
Cadmium	111-1	19.07	19.47	19.76	19.43	1.79	ppb
Calcium	43-1	95909.24	94677.97	96341.78	95643.00	0.90	ppb
Calcium	44-1	95160.30	95791.12	95594.79	95515.41	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.06	39.64	40.02	39.57	1.22	ppb
Cobalt	59-2	21.40	21.38	21.43	21.40	0.12	ppb
Copper	63-2	27.85	27.86	27.86	27.86	0.04	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	54-2	99447.02	97019.16	99489.91	98652.03	1.43	ppb
Iron	56-2	98195.51	97233.56	99968.98	98466.02	1.41	ppb
Iron	57-2	98898.73	98279.77	98895.69	98691.40	0.36	ppb
Krypton	83-1						cps
Lead	206-1	27.76	27.51	27.90	27.72	0.71	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	27.38	27.41	27.40	27.40	0.06	ppb
Lead	208-1	27.18	27.30	27.32	27.27	0.28	ppb
Lithium	6-1				100		%
Magnesium	24-2	93571.83	93944.25	93375.13	93630.40	0.31	ppb
Manganese	55-2	27.45	26.90	27.14	27.16	1.00	ppb
Molybdenum	94-1	1526.37	1569.78	1593.33	1563.16	2.17	ppb
Molybdenum	95-1	1855.58	1899.74	1951.35	1902.22	2.52	ppb
Molybdenum	96-1	1816.42	1864.48	1883.59	1854.83	1.87	ppb
Molybdenum	97-1	1845.56	1894.14	1934.53	1891.41	2.36	ppb
Molybdenum	98-1	1869.75	1917.25	1923.13	1903.38	1.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.45	24.83	24.79	24.69	0.85	ppb
Phosphorus	31-2	102408.19	101938.24	102935.17	102427.20	0.49	ppb
Potassium	39-2	95806.46	97350.70	99178.50	97445.22	1.73	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	19.88	21.04	21.38	20.77	3.77	ppb
Selenium	77-2	20.28	25.34	19.38	21.67	14.82	ppb
Selenium	78-2	20.53	22.85	24.43	22.60	8.68	ppb
Silicon	28-1	2.02	2.00	2.16	2.06	4.28	ppb
Silver	107-1	18.04	18.59	18.62	18.42	1.78	ppb
Silver	109-1	18.24	18.60	18.43	18.43	0.97	ppb
Sodium	23-2	98131.00	98187.43	97371.32	97896.58	0.47	ppb
Strontium	86-1	787.63	807.30	809.10	801.34	1.49	ppb
Strontium	88-1	821.03	847.13	845.29	837.82	1.74	ppb
Sulfur	34-1	101386.84	97877.68	100816.35	100026.96	1.88	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	20.23	20.11	20.45	20.26	0.86	ppb
Thallium	205-1	20.14	20.33	20.28	20.25	0.48	ppb
Tin	118-1	0.20	0.19	0.19	0.19	1.00	ppb
Titanium	47-1	1942.53	2032.87	2001.54	1992.31	2.30	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	1.79	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	20.42	20.11	20.55	20.36	1.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	31.17	31.37	30.69	31.08	1.13	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	17.67	ppb
Zirconium	91-1	0.03	0.04	0.04	0.04	16.09	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49728.11	51413.10	50006.92	50382.71	1.79	ppb
Antimony	121-1	497.84	502.54	503.52	501.30	0.61	ppb
Arsenic	75-2	508.73	506.09	503.98	506.26	0.47	ppb
Barium	135-1	2539.28	2564.60	2552.80	2552.22	0.50	ppb
Barium	137-1	2576.76	2582.57	2541.63	2566.99	0.86	ppb
Beryllium	9-1	526.03	533.88	527.02	528.98	0.81	ppb
Bismuth	209-1				86		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	491.66	506.26	504.86	500.93	1.61	ppb
Cadmium	106-1	494.43	507.90	504.39	502.24	1.39	ppb
Cadmium	111-1	503.50	501.66	507.77	504.31	0.62	ppb
Calcium	43-1	235951.90	240460.65	240404.43	238939.00	1.08	ppb
Calcium	44-1	237979.28	238318.38	242111.00	239469.55	0.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.62	524.31	520.76	523.23	0.41	ppb
Cobalt	59-2	514.09	509.92	514.15	512.72	0.47	ppb
Copper	63-2	5093.44	5077.39	5023.71	5064.85	0.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				96		%
Indium	115-1				88		%
Indium	115-2				83		%
Iron	54-2	132044.80	130435.24	131162.17	131214.07	0.61	ppb
Iron	56-2	130855.45	131398.83	129219.84	130491.37	0.87	ppb
Iron	57-2	130196.04	131387.99	130449.69	130677.91	0.48	ppb
Krypton	83-1						cps
Lead	206-1	2568.68	2583.28	2618.32	2590.09	0.98	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2568.70	2609.38	2603.06	2593.71	0.84	ppb
Lead	208-1	2580.53	2612.70	2613.56	2602.27	0.72	ppb
Lithium	6-1				92		%
Magnesium	24-2	245687.06	249019.84	243348.71	246018.54	1.16	ppb
Manganese	55-2	5250.42	5202.72	5112.04	5188.39	1.35	ppb
Molybdenum	94-1	5102.70	5124.20	5159.70	5128.87	0.56	ppb
Molybdenum	95-1	5035.42	5113.23	5180.38	5109.68	1.42	ppb
Molybdenum	96-1	5108.64	5104.16	5122.96	5111.92	0.19	ppb
Molybdenum	97-1	5067.64	5070.91	5131.28	5089.94	0.70	ppb
Molybdenum	98-1	5056.17	5151.42	5187.77	5131.79	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	473.44	472.42	474.08	473.31	0.18	ppb
Phosphorus	31-2	10694.72	10497.22	10353.04	10514.99	1.63	ppb
Potassium	39-2	132849.57	132758.44	132345.48	132651.16	0.20	ppb
Rhodium	103-1				84		%
Rhodium	103-2				85		%
Scandium	45-1				92		%
Scandium	45-2				94		%
Selenium	82-1	493.70	496.24	493.96	494.63	0.28	ppb
Selenium	77-2	489.68	519.92	457.11	488.91	6.43	ppb
Selenium	78-2	531.84	514.89	525.30	524.01	1.63	ppb
Silicon	28-1	518.93	512.25	512.28	514.49	0.75	ppb
Silver	107-1	481.44	502.74	492.79	492.32	2.17	ppb
Silver	109-1	486.86	499.84	491.58	492.76	1.33	ppb
Sodium	23-2	241827.23	238049.72	241338.32	240405.09	0.85	ppb
Strontium	86-1	12946.49	12826.23	12777.22	12849.98	0.68	ppb
Strontium	88-1	12579.28	12853.94	12862.56	12765.26	1.26	ppb
Sulfur	34-1	10097.89	10459.45	10171.20	10242.84	1.87	ppb
Terbium	159-1				96		%
Terbium	159-2				93		%
Thallium	203-1	520.74	521.82	530.88	524.48	1.06	ppb
Thallium	205-1	514.28	526.12	530.49	523.63	1.60	ppb
Tin	118-1	502.90	502.54	503.12	502.85	0.06	ppb
Titanium	47-1	5154.87	5191.37	5258.97	5201.74	1.02	ppb
Uranium	238-1	523.96	528.80	543.07	531.94	1.87	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	541.06	528.92	533.71	534.57	1.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				94		%
Zinc	66-2	5197.21	5227.23	5117.63	5180.69	1.09	ppb
Zirconium	90-1	510.51	513.80	520.41	514.91	0.98	ppb
Zirconium	91-1	508.81	522.21	520.80	517.27	1.42	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.03	0.30	0.45	0.24	104.11	ppb
Antimony	121-1	0.05	0.04	0.04	0.04	8.35	ppb
Arsenic	75-2	-0.01	-0.01	0.01	0.00		ppb
Barium	135-1	0.02	0.02	0.02	0.02	5.46	ppb
Barium	137-1	0.02	0.01	0.01	0.01	43.11	ppb
Beryllium	9-1	0.04	0.05	0.04	0.04	10.34	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	0.00	-0.01	-0.01		ppb
Cadmium	106-1	-0.01	-0.58	-0.70	-0.43		ppb
Cadmium	111-1	0.01	-0.04	-0.05	-0.03		ppb
Calcium	43-1	1.64	-1.00	0.19	0.28	480.58	ppb
Calcium	44-1	1.17	0.27	0.61	0.69	66.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.01	-0.01	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	300.88	ppb
Copper	63-2	0.05	0.03	0.05	0.04	27.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	54-2	-0.98	-0.78	-0.73	-0.83		ppb
Iron	56-2	1.14	1.12	1.20	1.15	3.60	ppb
Iron	57-2	1.24	1.13	1.10	1.16	6.16	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.07	0.08	5.78	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.08	0.08	2.57	ppb
Lead	208-1	0.08	0.08	0.07	0.08	6.70	ppb
Lithium	6-1				105		%
Magnesium	24-2	1.58	1.29	1.37	1.41	10.76	ppb
Manganese	55-2	-0.05	-0.08	-0.04	-0.06		ppb
Molybdenum	94-1	0.13	0.09	0.11	0.11	15.20	ppb
Molybdenum	95-1	0.06	0.05	0.05	0.06	9.69	ppb
Molybdenum	96-1	0.07	0.06	0.04	0.06	25.60	ppb
Molybdenum	97-1	0.06	0.05	0.05	0.05	15.48	ppb
Molybdenum	98-1	0.06	0.05	0.05	0.06	7.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	-0.01	-0.01		ppb
Phosphorus	31-2	-117.02	-110.18	-121.00	-116.07		ppb
Potassium	39-2	20.00	18.26	15.79	18.02	11.72	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	0.10	0.08	-0.15	0.01	1028.12	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.48	0.15	0.16	-0.05		ppb
Silicon	28-1	-0.39	-0.34	-0.32	-0.35		ppb
Silver	107-1	0.20	0.02	0.02	0.08	131.69	ppb
Silver	109-1	0.02	0.02	0.02	0.02	18.65	ppb
Sodium	23-2	30.87	29.18	31.68	30.58	4.17	ppb
Strontium	86-1	-0.06	-0.12	-0.22	-0.13		ppb
Strontium	88-1	0.08	0.08	0.05	0.07	20.74	ppb
Sulfur	34-1	-490.49	-667.27	-586.49	-581.41		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.02	0.02	0.02	0.02	6.13	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.79	ppb
Tin	118-1	0.02	0.01	-0.01	0.01	194.91	ppb
Titanium	47-1	0.05	0.04	0.05	0.05	7.39	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	20.44	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.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				103		%
Yttrium	89-2				101		%
Zinc	66-2	0.02	0.03	-0.04	0.00	1123.15	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	16.62	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	6.39	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.07	19.97	20.40	19.82	3.42	ppb
Antimony	121-1	1.93	1.94	1.92	1.93	0.56	ppb
Arsenic	75-2	0.94	0.91	0.99	0.95	4.04	ppb
Barium	135-1	9.39	9.25	9.45	9.37	1.13	ppb
Barium	137-1	9.45	9.36	9.53	9.45	0.89	ppb
Beryllium	9-1	1.16	1.12	1.11	1.13	2.24	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.93	1.06	0.88	0.96	9.92	ppb
Cadmium	106-1	0.23	0.18	0.23	0.21	14.69	ppb
Cadmium	111-1	0.84	0.79	0.85	0.83	3.77	ppb
Calcium	43-1	466.93	471.72	485.35	474.66	2.01	ppb
Calcium	44-1	470.39	477.48	478.21	475.36	0.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.98	1.97	2.14	2.03	4.66	ppb
Cobalt	59-2	1.07	1.03	1.13	1.08	4.46	ppb
Copper	63-2	2.19	2.06	2.21	2.16	3.78	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				101		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	52.54	49.21	53.04	51.60	4.03	ppb
Iron	56-2	50.66	50.39	54.73	51.93	4.68	ppb
Iron	57-2	52.88	50.18	50.10	51.05	3.09	ppb
Krypton	83-1						cps
Lead	206-1	0.83	0.82	0.83	0.83	0.27	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.83	0.84	0.83	0.83	0.90	ppb
Lead	208-1	0.84	0.82	0.82	0.83	1.10	ppb
Lithium	6-1				103		%
Magnesium	24-2	521.38	515.97	538.87	525.41	2.28	ppb
Manganese	55-2	0.97	0.97	1.20	1.05	12.74	ppb
Molybdenum	94-1	5.70	5.82	5.77	5.76	1.10	ppb
Molybdenum	95-1	4.63	4.68	4.64	4.65	0.59	ppb
Molybdenum	96-1	4.71	4.80	4.64	4.72	1.62	ppb
Molybdenum	97-1	4.64	4.61	4.62	4.63	0.31	ppb
Molybdenum	98-1	4.67	4.65	4.62	4.65	0.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.93	0.90	1.01	0.95	5.69	ppb
Phosphorus	31-2	144.57	121.08	160.96	142.20	14.09	ppb
Potassium	39-2	487.26	488.76	530.57	502.20	4.90	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	5.05	4.61	4.86	4.84	4.60	ppb
Selenium	77-2	6.50	8.07	4.33	6.30	29.80	ppb
Selenium	78-2	3.27	5.12	6.05	4.81	29.48	ppb
Silicon	28-1	0.07	0.06	-0.34	-0.07		ppb
Silver	107-1	1.06	1.04	1.05	1.05	0.96	ppb
Silver	109-1	1.05	1.07	1.05	1.05	0.98	ppb
Sodium	23-2	515.00	505.10	542.77	520.96	3.75	ppb
Strontium	86-1	22.98	23.72	23.89	23.53	2.07	ppb
Strontium	88-1	23.38	23.71	23.85	23.64	1.02	ppb
Sulfur	34-1	-410.88	-442.59	-361.58	-405.02		ppb
Terbium	159-1				104		%
Terbium	159-2				99		%
Thallium	203-1	0.92	0.93	0.92	0.92	0.59	ppb
Thallium	205-1	0.93	0.93	0.94	0.93	0.64	ppb
Tin	118-1	4.79	4.80	4.77	4.79	0.31	ppb
Titanium	47-1	5.10	5.14	5.23	5.16	1.23	ppb
Uranium	238-1	0.86	0.87	0.89	0.88	1.71	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.94	4.92	5.20	5.02	3.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	5.22	5.07	5.46	5.25	3.84	ppb
Zirconium	90-1	1.00	1.02	1.01	1.01	0.98	ppb
Zirconium	91-1	1.01	1.01	1.03	1.02	0.90	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.24	0.27	0.57	0.36	51.56	ppb
Antimony	121-1	0.01	0.01	0.00	0.01	37.13	ppb
Arsenic	75-2	0.00	-0.01	0.01	0.00		ppb
Barium	135-1	0.00	0.00	0.00	0.00	241.42	ppb
Barium	137-1	-0.01	0.00	0.00	0.00		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	109.22	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.05	0.04	-0.01		ppb
Cadmium	106-1	-0.63	-1.17	-1.17	-0.99		ppb
Cadmium	111-1	-0.05	-0.09	-0.09	-0.08		ppb
Calcium	43-1	-1.49	-2.26	-1.00	-1.58		ppb
Calcium	44-1	0.01	-0.12	-0.87	-0.33		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.02	-0.03	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.05	-0.02	-0.05	-0.04		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				103		%
Iron	54-2	-1.67	-1.70	-1.42	-1.60		ppb
Iron	56-2	0.09	0.80	0.17	0.35	110.47	ppb
Iron	57-2	-0.03	0.17	0.13	0.09	123.82	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.01	0.01	0.01	28.09	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.01	0.01	35.48	ppb
Lead	208-1	0.01	0.01	0.01	0.01	19.48	ppb
Lithium	6-1				102		%
Magnesium	24-2	0.05	0.15	0.55	0.25	105.42	ppb
Manganese	55-2	0.00	-0.06	-0.04	-0.03		ppb
Molybdenum	94-1	0.02	0.02	0.02	0.02	7.42	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	148.06	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	681.35	ppb
Molybdenum	97-1	0.00	0.00	0.01	0.00	107.69	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.00	-0.02	0.00		ppb
Phosphorus	31-2	-110.42	-117.22	-112.37	-113.34		ppb
Potassium	39-2	9.26	6.68	6.56	7.50	20.31	ppb
Rhodium	103-1				102		%
Rhodium	103-2				105		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	-0.06	0.00	0.05	0.00		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.08	0.71	-0.33	0.15	340.49	ppb
Silicon	28-1	-0.33	-0.36	-0.24	-0.31		ppb
Silver	107-1	0.00	0.00	0.00	0.00	68.59	ppb
Silver	109-1	0.00	0.00	0.00	0.00	20.44	ppb
Sodium	23-2	12.94	12.19	11.34	12.16	6.61	ppb
Strontium	86-1	-0.45	-0.12	-0.25	-0.28		ppb
Strontium	88-1	0.00	-0.01	0.03	0.00	477.51	ppb
Sulfur	34-1	-196.51	-284.26	-332.94	-271.24		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.00	0.00	0.00	0.00	92.52	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	55.76	ppb
Tin	118-1	0.00	0.00	0.00	0.00	89.88	ppb
Titanium	47-1	0.01	0.01	0.02	0.01	4.07	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.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				105		%
Yttrium	89-2				105		%
Zinc	66-2	-0.04	0.02	0.02	0.00		ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	55.10	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	45.81	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10362.48	10291.19	10150.32	10268.00	1.05	ppb
Antimony	121-1	518.13	510.31	520.36	516.27	1.02	ppb
Arsenic	75-2	523.46	511.30	509.02	514.59	1.51	ppb
Barium	135-1	2570.72	2541.10	2585.69	2565.84	0.88	ppb
Barium	137-1	2605.92	2553.28	2588.07	2582.43	1.04	ppb
Beryllium	9-1	516.55	520.52	516.08	517.72	0.47	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	519.65	522.39	517.88	519.97	0.44	ppb
Cadmium	106-1	519.71	516.56	522.27	519.51	0.55	ppb
Cadmium	111-1	526.35	529.29	528.57	528.07	0.29	ppb
Calcium	43-1	49468.56	50015.88	50578.32	50020.92	1.11	ppb
Calcium	44-1	49849.84	49825.26	50581.14	50085.42	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.77	522.28	524.53	523.86	0.26	ppb
Cobalt	59-2	518.93	524.70	528.24	523.96	0.90	ppb
Copper	63-2	5321.31	5253.02	5128.69	5234.34	1.87	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	54-2	27204.36	26110.11	25981.16	26431.88	2.54	ppb
Iron	56-2	25777.74	25681.41	25518.37	25659.17	0.51	ppb
Iron	57-2	26583.59	26467.64	25790.98	26280.74	1.63	ppb
Krypton	83-1						cps
Lead	206-1	2470.73	2521.90	2519.54	2504.06	1.15	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2472.39	2508.13	2519.81	2500.11	0.99	ppb
Lead	208-1	2470.09	2503.46	2521.88	2498.47	1.05	ppb
Lithium	6-1				99		%
Magnesium	24-2	52084.99	51940.96	51760.96	51928.97	0.31	ppb
Manganese	55-2	5294.89	5186.49	5152.97	5211.45	1.42	ppb
Molybdenum	94-1	4951.56	5155.82	5065.68	5057.69	2.02	ppb
Molybdenum	95-1	4988.01	5151.70	5103.18	5080.96	1.65	ppb
Molybdenum	96-1	4952.11	5048.22	5116.94	5039.09	1.64	ppb
Molybdenum	97-1	4900.02	4976.18	5053.31	4976.51	1.54	ppb
Molybdenum	98-1	4973.41	5065.82	5099.90	5046.38	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	493.00	496.50	494.39	494.63	0.36	ppb
Phosphorus	31-2	10412.63	10600.41	10181.73	10398.26	2.02	ppb
Potassium	39-2	26036.27	25892.56	26116.57	26015.13	0.44	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	499.84	510.80	505.77	505.47	1.09	ppb
Selenium	77-2	480.38	507.06	529.04	505.49	4.82	ppb
Selenium	78-2	512.17	511.37	506.05	509.87	0.65	ppb
Silicon	28-1	544.86	507.88	523.26	525.34	3.54	ppb
Silver	107-1	526.13	521.62	518.48	522.08	0.74	ppb
Silver	109-1	521.67	529.70	524.73	525.37	0.77	ppb
Sodium	23-2	51541.37	51009.80	51266.83	51272.67	0.52	ppb
Strontium	86-1	12548.79	12748.41	12625.60	12640.94	0.80	ppb
Strontium	88-1	12580.03	12564.50	12697.50	12614.01	0.58	ppb
Sulfur	34-1	11283.82	9956.16	10091.03	10443.67	7.00	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	493.79	505.99	508.08	502.62	1.54	ppb
Thallium	205-1	489.02	508.27	502.10	499.80	1.97	ppb
Tin	118-1	516.62	504.63	507.54	509.60	1.23	ppb
Titanium	47-1	5145.55	5114.41	5100.36	5120.11	0.45	ppb
Uranium	238-1	484.94	485.81	499.19	489.98	1.63	ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	518.68	513.75	515.69	516.04	0.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	5368.99	5299.42	5235.40	5301.27	1.26	ppb
Zirconium	90-1	495.12	516.81	510.50	507.48	2.20	ppb
Zirconium	91-1	501.79	510.25	510.82	507.62	1.00	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.52	0.70	1.28	0.83	47.42	ppb
Antimony	121-1	0.11	0.10	0.09	0.10	12.74	ppb
Arsenic	75-2	0.00	0.01	0.01	0.01	103.09	ppb
Barium	135-1	0.06	0.04	0.04	0.05	15.36	ppb
Barium	137-1	0.06	0.04	0.03	0.05	36.04	ppb
Beryllium	9-1	0.07	0.05	0.06	0.06	9.32	ppb
Bismuth	209-1				104		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.00	-0.01	0.00	26001.04	ppb
Cadmium	106-1	-0.68	-0.87	-0.50	-0.68		ppb
Cadmium	111-1	-0.04	-0.05	-0.03	-0.04		ppb
Calcium	43-1	1.39	0.49	0.10	0.66	100.36	ppb
Calcium	44-1	0.48	-0.65	0.15	-0.01		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	0.00		ppb
Cobalt	59-2	0.00	0.01	0.00	0.01	26.44	ppb
Copper	63-2	0.06	0.05	0.06	0.05	10.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	54-2	-1.74	-1.48	-1.38	-1.54		ppb
Iron	56-2	0.55	0.52	0.56	0.54	3.92	ppb
Iron	57-2	0.22	0.11	0.29	0.21	44.10	ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.11	0.10	0.11	12.89	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.13	0.10	0.12	16.59	ppb
Lead	208-1	0.13	0.12	0.10	0.12	13.86	ppb
Lithium	6-1				103		%
Magnesium	24-2	1.17	0.89	1.08	1.05	13.59	ppb
Manganese	55-2	-0.24	-0.25	-0.29	-0.26		ppb
Molybdenum	94-1	0.25	0.19	0.18	0.21	17.33	ppb
Molybdenum	95-1	0.22	0.16	0.13	0.17	25.69	ppb
Molybdenum	96-1	0.21	0.17	0.14	0.17	19.71	ppb
Molybdenum	97-1	0.21	0.14	0.13	0.16	27.00	ppb
Molybdenum	98-1	0.20	0.15	0.13	0.16	21.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.02	0.02	0.01	44.15	ppb
Phosphorus	31-2	-117.14	-111.51	-120.15	-116.27		ppb
Potassium	39-2	6.76	9.49	7.24	7.83	18.62	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	-0.06	0.01	0.15	0.03	301.18	ppb
Selenium	77-2	0.00	0.00	0.51	0.17	173.21	ppb
Selenium	78-2	0.30	-0.02	0.45	0.24	98.56	ppb
Silicon	28-1	-0.23	-0.11	-0.01	-0.12		ppb
Silver	107-1	0.05	0.04	0.03	0.04	19.51	ppb
Silver	109-1	0.05	0.04	0.04	0.04	17.61	ppb
Sodium	23-2	20.50	20.49	20.82	20.60	0.91	ppb
Strontium	86-1	0.33	0.15	-0.02	0.16	111.24	ppb
Strontium	88-1	0.36	0.26	0.25	0.29	20.00	ppb
Sulfur	34-1	-683.55	-842.04	-745.71	-757.10		ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.02	0.02	0.02	11.56	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	18.01	ppb
Tin	118-1	0.02	0.02	0.02	0.02	7.14	ppb
Titanium	47-1	0.16	0.12	0.09	0.12	29.30	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	43.48	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	24.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	0.31	0.38	0.21	0.30	29.65	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	8.47	ppb
Zirconium	91-1	0.04	0.04	0.03	0.04	16.78	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2620.28	2562.19	2586.85	2589.77	1.13	ppb
Antimony	121-1	0.05	0.05	0.04	0.05	2.01	ppb
Arsenic	75-2	0.54	0.49	0.51	0.51	5.37	ppb
Barium	135-1	18.63	18.36	19.18	18.72	2.24	ppb
Barium	137-1	18.48	18.39	19.16	18.68	2.26	ppb
Beryllium	9-1	0.15	0.15	0.16	0.15	1.88	ppb
Bismuth	209-1				103		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.04	0.02	0.06	85.44	ppb
Cadmium	106-1	0.34	-0.09	-0.48	-0.08		ppb
Cadmium	111-1	0.07	0.03	0.00	0.03	103.49	ppb
Calcium	43-1	41181.72	42052.37	41449.99	41561.36	1.07	ppb
Calcium	44-1	41218.65	40980.06	41655.89	41284.87	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.60	0.59	0.57	0.59	2.16	ppb
Cobalt	59-2	16.45	16.42	16.37	16.41	0.25	ppb
Copper	63-2	3.17	3.10	3.06	3.11	1.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	42537.45	41528.06	42324.61	42130.04	1.26	ppb
Iron	56-2	41686.35	42489.59	42231.46	42135.80	0.97	ppb
Iron	57-2	43019.11	42298.92	42467.21	42595.08	0.88	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.08	0.08	0.08	8.87	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.08	0.08	0.09	11.39	ppb
Lead	208-1	0.09	0.08	0.08	0.09	7.32	ppb
Lithium	6-1				102		%
Magnesium	24-2	12361.96	12093.94	12313.03	12256.31	1.16	ppb
Manganese	55-2	837.88	836.13	856.24	843.42	1.32	ppb
Molybdenum	94-1	0.13	0.14	0.12	0.13	8.60	ppb
Molybdenum	95-1	0.09	0.08	0.08	0.08	5.84	ppb
Molybdenum	96-1	0.25	0.26	0.23	0.25	5.34	ppb
Molybdenum	97-1	0.08	0.07	0.06	0.07	13.29	ppb
Molybdenum	98-1	0.08	0.06	0.06	0.07	10.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.41	16.20	15.99	16.20	1.32	ppb
Phosphorus	31-2	-103.28	-106.23	-96.76	-102.09		ppb
Potassium	39-2	401.36	396.72	398.87	398.98	0.58	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.33	0.30	0.13	0.25	43.10	ppb
Selenium	77-2	13.13	12.72	11.42	12.42	7.15	ppb
Selenium	78-2	4.67	3.03	2.64	3.45	31.24	ppb
Silicon	28-1	531.72	535.25	530.74	532.57	0.45	ppb
Silver	107-1	0.02	0.02	0.01	0.02	4.61	ppb
Silver	109-1	0.02	0.01	0.01	0.01	23.17	ppb
Sodium	23-2	11136.67	10687.98	11052.47	10959.04	2.18	ppb
Strontium	86-1	2133.66	2163.91	2167.22	2154.93	0.86	ppb
Strontium	88-1	2230.52	2243.53	2227.95	2234.00	0.37	ppb
Sulfur	34-1	61847.89	62489.89	62131.70	62156.50	0.52	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.01	0.01	15.24	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	13.44	ppb
Tin	118-1	0.00	0.01	0.01	0.01	61.04	ppb
Titanium	47-1	0.51	0.49	0.45	0.48	6.15	ppb
Uranium	238-1	0.54	0.52	0.53	0.53	1.65	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	54.25	53.87	53.75	53.96	0.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				105		%
Zinc	66-2	109.83	108.26	109.43	109.17	0.74	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	5.77	ppb
Zirconium	91-1	0.03	0.04	0.04	0.04	11.19	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2012.70	1938.81	1939.26	1963.59	2.17	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.03	ppb
Arsenic	75-2	0.33	0.46	0.36	0.38	18.48	ppb
Barium	135-1	19.69	19.93	19.89	19.83	0.63	ppb
Barium	137-1	20.09	20.36	19.82	20.09	1.33	ppb
Beryllium	9-1	0.13	0.13	0.13	0.13	2.44	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.06	-0.03	0.05	145.91	ppb
Cadmium	106-1	-0.42	-0.54	-1.26	-0.74		ppb
Cadmium	111-1	0.02	0.01	-0.06	-0.01		ppb
Calcium	43-1	51090.20	53667.72	53228.65	52662.19	2.62	ppb
Calcium	44-1	51534.75	53120.87	53320.93	52658.85	1.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.48	0.45	0.51	0.48	6.42	ppb
Cobalt	59-2	16.84	16.65	16.75	16.75	0.57	ppb
Copper	63-2	3.37	3.23	3.23	3.28	2.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				100		%
Indium	115-1				98		%
Indium	115-2				97		%
Iron	54-2	40242.22	40035.49	39969.90	40082.53	0.35	ppb
Iron	56-2	40720.38	39908.46	39873.99	40167.61	1.19	ppb
Iron	57-2	40280.86	39939.72	40595.47	40272.02	0.81	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.08	0.07	0.07	3.72	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.07	0.07	8.39	ppb
Lead	208-1	0.07	0.07	0.07	0.07	1.79	ppb
Lithium	6-1				102		%
Magnesium	24-2	11986.67	11526.75	11316.49	11609.97	2.95	ppb
Manganese	55-2	1152.79	1117.34	1147.72	1139.28	1.68	ppb
Molybdenum	94-1	0.11	0.11	0.12	0.11	7.13	ppb
Molybdenum	95-1	0.06	0.08	0.07	0.07	11.45	ppb
Molybdenum	96-1	0.23	0.21	0.23	0.22	4.74	ppb
Molybdenum	97-1	0.06	0.06	0.06	0.06	4.45	ppb
Molybdenum	98-1	0.06	0.06	0.05	0.06	10.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.44	14.84	15.26	15.18	2.00	ppb
Phosphorus	31-2	-105.40	-109.24	-101.18	-105.28		ppb
Potassium	39-2	411.88	403.56	408.81	408.08	1.03	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.21	0.36	0.20	0.26	34.48	ppb
Selenium	77-2	9.56	11.08	15.32	11.99	24.93	ppb
Selenium	78-2	3.14	3.90	3.20	3.42	12.38	ppb
Silicon	28-1	510.55	535.29	520.98	522.28	2.38	ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.14	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.59	ppb
Sodium	23-2	11992.50	11677.40	11656.85	11775.58	1.60	ppb
Strontium	86-1	2464.59	2537.70	2513.45	2505.25	1.49	ppb
Strontium	88-1	2546.23	2613.54	2587.62	2582.46	1.31	ppb
Sulfur	34-1	65470.62	67729.62	67002.98	66734.41	1.73	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.01	0.01	0.01	14.25	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	13.09	ppb
Tin	118-1	0.06	0.05	0.05	0.05	12.60	ppb
Titanium	47-1	0.44	0.43	0.40	0.42	5.32	ppb
Uranium	238-1	0.50	0.49	0.50	0.50	0.65	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	37.04	36.48	36.83	36.78	0.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	108.91	107.41	109.59	108.64	1.03	ppb
Zirconium	90-1	0.02	0.03	0.03	0.02	16.39	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	7.24	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1822.22	1815.48	1803.38	1813.69	0.53	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	6.09	ppb
Arsenic	75-2	0.41	0.39	0.29	0.36	18.38	ppb
Barium	135-1	19.55	19.76	19.42	19.58	0.88	ppb
Barium	137-1	19.86	19.93	19.93	19.91	0.22	ppb
Beryllium	9-1	0.14	0.14	0.13	0.14	2.08	ppb
Bismuth	209-1				100		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.02	0.04	0.03	23.67	ppb
Cadmium	106-1	-0.08	-0.72	-1.49	-0.76		ppb
Cadmium	111-1	0.04	0.00	-0.07	-0.01		ppb
Calcium	43-1	49894.82	50213.88	48737.00	49615.24	1.57	ppb
Calcium	44-1	49477.45	50441.22	48927.25	49615.30	1.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.47	0.43	0.47	0.46	4.45	ppb
Cobalt	59-2	19.06	19.09	19.05	19.07	0.11	ppb
Copper	63-2	3.44	3.46	3.45	3.45	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	54-2	39946.39	39562.34	38988.42	39499.05	1.22	ppb
Iron	56-2	39672.00	39760.56	38587.94	39340.17	1.66	ppb
Iron	57-2	40350.59	39624.31	39788.97	39921.29	0.95	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.07	0.07	3.93	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.08	0.07	0.07	11.21	ppb
Lead	208-1	0.07	0.07	0.07	0.07	1.25	ppb
Lithium	6-1				101		%
Magnesium	24-2	11995.81	11838.38	11898.43	11910.87	0.67	ppb
Manganese	55-2	1184.13	1195.17	1156.59	1178.63	1.69	ppb
Molybdenum	94-1	0.11	0.10	0.11	0.11	2.98	ppb
Molybdenum	95-1	0.06	0.05	0.05	0.06	7.19	ppb
Molybdenum	96-1	0.21	0.20	0.22	0.21	3.04	ppb
Molybdenum	97-1	0.05	0.05	0.05	0.05	1.66	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	6.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.54	15.43	15.60	15.52	0.57	ppb
Phosphorus	31-2	-117.99	-111.00	-102.90	-110.63		ppb
Potassium	39-2	449.08	459.27	456.61	454.98	1.16	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.25	0.43	0.25	0.31	33.19	ppb
Selenium	77-2	8.51	9.60	7.70	8.60	11.12	ppb
Selenium	78-2	1.62	2.86	3.22	2.57	32.77	ppb
Silicon	28-1	571.40	564.01	578.57	571.33	1.27	ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.77	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.58	ppb
Sodium	23-2	12958.55	12953.34	12860.79	12924.23	0.43	ppb
Strontium	86-1	2549.55	2594.80	2636.72	2593.69	1.68	ppb
Strontium	88-1	2651.48	2714.18	2710.04	2691.90	1.30	ppb
Sulfur	34-1	66941.41	64000.03	64876.55	65272.67	2.31	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.01	0.01	0.01	8.21	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	9.57	ppb
Tin	118-1	0.09	0.09	0.10	0.10	2.90	ppb
Titanium	47-1	0.49	0.46	0.47	0.47	3.48	ppb
Uranium	238-1	0.38	0.39	0.39	0.39	1.92	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	27.18	27.30	26.85	27.11	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				103		%
Zinc	66-2	106.73	106.56	106.07	106.45	0.32	ppb
Zirconium	90-1	0.02	0.03	0.03	0.02	13.49	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	1.51	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12814.32	12845.84	12890.16	12850.10	0.30	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	4.69	ppb
Arsenic	75-2	5.32	4.83	5.03	5.06	4.90	ppb
Barium	135-1	23.72	23.88	23.70	23.77	0.42	ppb
Barium	137-1	23.56	24.46	24.14	24.05	1.89	ppb
Beryllium	9-1	2.42	2.53	2.46	2.47	2.31	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.68	1.71	1.58	1.66	4.01	ppb
Cadmium	106-1	1.43	1.77	1.59	1.60	10.74	ppb
Cadmium	111-1	1.83	1.90	1.88	1.87	1.92	ppb
Calcium	43-1	49500.96	51507.60	50512.68	50507.08	1.99	ppb
Calcium	44-1	49248.58	50326.04	50920.12	50164.91	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.41	7.48	7.44	7.45	0.48	ppb
Cobalt	59-2	50.19	50.69	50.68	50.52	0.56	ppb
Copper	63-2	33.88	34.27	34.56	34.24	0.99	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	54-2	3505.48	3534.16	3529.98	3523.21	0.44	ppb
Iron	56-2	3559.67	3563.53	3585.36	3569.52	0.39	ppb
Iron	57-2	3461.19	3482.68	3497.98	3480.62	0.53	ppb
Krypton	83-1						cps
Lead	206-1	6.26	6.43	6.43	6.37	1.53	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.10	6.25	6.21	6.19	1.22	ppb
Lead	208-1	6.19	6.30	6.30	6.26	1.02	ppb
Lithium	6-1				100		%
Magnesium	24-2	8799.38	8874.83	8938.31	8870.84	0.78	ppb
Manganese	55-2	3742.28	3750.31	3766.74	3753.11	0.33	ppb
Molybdenum	94-1	0.33	0.36	0.30	0.33	8.00	ppb
Molybdenum	95-1	0.06	0.07	0.07	0.07	5.30	ppb
Molybdenum	96-1	0.07	0.06	0.07	0.07	9.38	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.03	15.00	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	2.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	40.42	40.72	40.89	40.68	0.59	ppb
Phosphorus	31-2	664.40	675.54	667.23	669.06	0.87	ppb
Potassium	39-2	11003.19	10925.03	10830.06	10919.43	0.79	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.60	0.64	0.58	0.60	4.78	ppb
Selenium	77-2	32.12	33.08	34.37	33.19	3.41	ppb
Selenium	78-2	6.66	6.80	6.77	6.74	1.10	ppb
Silicon	28-1	660.83	678.77	684.81	674.80	1.85	ppb
Silver	107-1	0.01	0.02	0.01	0.01	20.08	ppb
Silver	109-1	0.01	0.01	0.01	0.01	6.19	ppb
Sodium	23-2	3121.98	3050.96	3078.36	3083.77	1.16	ppb
Strontium	86-1	3761.19	3828.97	3788.95	3793.04	0.90	ppb
Strontium	88-1	3917.70	3933.69	3946.77	3932.72	0.37	ppb
Sulfur	34-1	65909.48	66185.81	66569.38	66221.56	0.50	ppb
Terbium	159-1				103		%
Terbium	159-2				98		%
Thallium	203-1	0.17	0.16	0.16	0.16	1.79	ppb
Thallium	205-1	0.16	0.17	0.16	0.16	3.38	ppb
Tin	118-1	0.02	0.04	0.02	0.02	52.91	ppb
Titanium	47-1	1.41	1.48	1.43	1.44	2.67	ppb
Uranium	238-1	0.49	0.51	0.52	0.51	2.50	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.09	11.94	11.81	11.95	1.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				107		%
Zinc	66-2	407.54	409.81	407.30	408.22	0.34	ppb
Zirconium	90-1	0.15	0.16	0.16	0.15	3.80	ppb
Zirconium	91-1	0.15	0.17	0.16	0.16	6.76	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7927.78	8105.62	7937.15	7990.18	1.25	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	10.83	ppb
Arsenic	75-2	5.11	5.30	5.35	5.25	2.36	ppb
Barium	135-1	23.48	23.59	23.46	23.51	0.30	ppb
Barium	137-1	23.67	23.57	23.66	23.63	0.22	ppb
Beryllium	9-1	1.75	1.80	1.76	1.77	1.56	ppb
Bismuth	209-1				101		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.23	1.23	1.19	1.22	2.03	ppb
Cadmium	106-1	0.78	1.11	0.59	0.83	32.23	ppb
Cadmium	111-1	1.41	1.44	1.37	1.41	2.31	ppb
Calcium	43-1	54076.40	54834.05	55397.26	54769.24	1.21	ppb
Calcium	44-1	55156.78	54542.53	55668.64	55122.65	1.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.31	4.17	4.36	4.28	2.35	ppb
Cobalt	59-2	32.88	33.51	33.34	33.24	0.98	ppb
Copper	63-2	15.42	15.77	15.66	15.61	1.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	54-2	3478.27	3505.15	3504.37	3495.93	0.44	ppb
Iron	56-2	3516.64	3540.00	3526.27	3527.63	0.33	ppb
Iron	57-2	3434.90	3461.58	3444.49	3446.99	0.39	ppb
Krypton	83-1						cps
Lead	206-1	4.47	4.34	4.25	4.35	2.57	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.26	4.15	4.10	4.17	1.92	ppb
Lead	208-1	4.32	4.25	4.18	4.25	1.68	ppb
Lithium	6-1				98		%
Magnesium	24-2	11438.59	11762.01	11550.09	11583.56	1.42	ppb
Manganese	55-2	2745.10	2773.70	2813.20	2777.33	1.23	ppb
Molybdenum	94-1	0.32	0.30	0.30	0.31	5.14	ppb
Molybdenum	95-1	0.05	0.05	0.04	0.05	14.80	ppb
Molybdenum	96-1	0.07	0.07	0.06	0.07	4.94	ppb
Molybdenum	97-1	0.03	0.02	0.02	0.02	12.89	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	12.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.13	27.42	27.25	27.26	0.53	ppb
Phosphorus	31-2	678.80	660.95	685.62	675.12	1.89	ppb
Potassium	39-2	10224.52	10454.27	10206.39	10295.06	1.34	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	0.39	0.08	0.35	0.27	63.22	ppb
Selenium	77-2	12.46	15.16	16.10	14.57	12.99	ppb
Selenium	78-2	3.25	3.62	2.39	3.09	20.45	ppb
Silicon	28-1	474.16	479.19	479.00	477.45	0.60	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.42	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.97	ppb
Sodium	23-2	2866.14	2925.52	2826.47	2872.71	1.74	ppb
Strontium	86-1	4415.88	4188.89	4363.92	4322.90	2.75	ppb
Strontium	88-1	4427.84	4342.78	4321.62	4364.08	1.29	ppb
Sulfur	34-1	62773.19	63179.88	63648.71	63200.59	0.69	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.13	0.12	0.12	0.13	5.30	ppb
Thallium	205-1	0.12	0.13	0.12	0.12	2.60	ppb
Tin	118-1	0.02	0.01	0.00	0.01	64.72	ppb
Titanium	47-1	1.22	1.27	1.24	1.24	1.78	ppb
Uranium	238-1	0.23	0.22	0.23	0.23	1.54	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	8.68	8.58	8.80	8.69	1.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				103		%
Zinc	66-2	368.14	373.78	368.12	370.01	0.88	ppb
Zirconium	90-1	0.15	0.15	0.16	0.15	1.91	ppb
Zirconium	91-1	0.15	0.14	0.17	0.15	8.41	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7413.07	7349.78	7468.62	7410.49	0.80	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	2.77	ppb
Arsenic	75-2	3.33	3.17	3.79	3.43	9.38	ppb
Barium	135-1	22.17	22.58	22.08	22.28	1.18	ppb
Barium	137-1	22.45	22.93	22.77	22.72	1.06	ppb
Beryllium	9-1	1.95	1.91	2.02	1.96	2.64	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.55	1.37	1.55	1.49	6.68	ppb
Cadmium	106-1	0.72	0.64	0.78	0.71	9.84	ppb
Cadmium	111-1	1.57	1.63	1.60	1.60	1.82	ppb
Calcium	43-1	52396.27	52304.73	51090.42	51930.47	1.40	ppb
Calcium	44-1	52500.40	51699.53	51096.92	51765.62	1.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.18	3.10	3.20	3.16	1.73	ppb
Cobalt	59-2	42.96	42.70	42.65	42.77	0.38	ppb
Copper	63-2	15.91	15.79	16.00	15.90	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				104		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	2086.56	2059.49	2068.87	2071.64	0.66	ppb
Iron	56-2	2085.93	2055.02	2110.84	2083.93	1.34	ppb
Iron	57-2	2019.87	2037.75	2030.03	2029.22	0.44	ppb
Krypton	83-1						cps
Lead	206-1	3.58	3.56	3.70	3.61	2.01	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.47	3.46	3.54	3.49	1.32	ppb
Lead	208-1	3.51	3.51	3.58	3.53	1.06	ppb
Lithium	6-1				100		%
Magnesium	24-2	9684.00	9597.28	9752.29	9677.85	0.80	ppb
Manganese	55-2	3478.19	3404.07	3485.30	3455.85	1.30	ppb
Molybdenum	94-1	0.25	0.29	0.26	0.27	6.71	ppb
Molybdenum	95-1	0.06	0.06	0.05	0.06	7.44	ppb
Molybdenum	96-1	0.06	0.05	0.05	0.05	10.37	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	14.45	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	7.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	30.05	29.73	29.89	29.89	0.53	ppb
Phosphorus	31-2	211.18	243.96	243.54	232.89	8.08	ppb
Potassium	39-2	11212.19	11461.99	11744.26	11472.81	2.32	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.62	0.40	0.51	0.51	21.75	ppb
Selenium	77-2	20.14	12.99	17.21	16.78	21.42	ppb
Selenium	78-2	2.54	4.16	4.08	3.59	25.40	ppb
Silicon	28-1	535.50	541.58	537.37	538.15	0.58	ppb
Silver	107-1	0.01	0.02	0.01	0.01	11.37	ppb
Silver	109-1	0.01	0.01	0.01	0.01	7.77	ppb
Sodium	23-2	3161.86	3205.45	3232.35	3199.89	1.11	ppb
Strontium	86-1	4457.65	4453.55	4519.03	4476.74	0.82	ppb
Strontium	88-1	4372.77	4448.07	4366.48	4395.77	1.03	ppb
Sulfur	34-1	58240.92	58901.24	57523.83	58222.00	1.18	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	0.14	0.12	0.14	0.14	7.32	ppb
Thallium	205-1	0.14	0.14	0.14	0.14	0.28	ppb
Tin	118-1	0.04	0.04	0.03	0.03	16.03	ppb
Titanium	47-1	1.56	1.55	1.55	1.56	0.47	ppb
Uranium	238-1	0.23	0.23	0.24	0.23	1.50	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.91	4.84	5.00	4.92	1.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				103		%
Zinc	66-2	483.01	487.96	488.39	486.45	0.61	ppb
Zirconium	90-1	0.12	0.12	0.13	0.12	2.53	ppb
Zirconium	91-1	0.11	0.13	0.13	0.12	7.93	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50999.30	49547.63	50574.01	50373.65	1.48	ppb
Antimony	121-1	505.99	503.93	506.67	505.53	0.28	ppb
Arsenic	75-2	497.57	506.02	495.96	499.85	1.08	ppb
Barium	135-1	2531.44	2553.78	2566.56	2550.59	0.70	ppb
Barium	137-1	2566.76	2552.88	2596.35	2572.00	0.86	ppb
Beryllium	9-1	523.81	531.98	533.14	529.64	0.96	ppb
Bismuth	209-1				88		%
Bismuth	209-2				82		%
Bromine	81-1						cps
Cadmium	108-1	500.64	499.92	506.11	502.22	0.67	ppb
Cadmium	106-1	497.76	502.63	503.30	501.23	0.60	ppb
Cadmium	111-1	508.64	509.22	505.97	507.94	0.34	ppb
Calcium	43-1	242581.27	238495.33	235998.24	239024.95	1.39	ppb
Calcium	44-1	244055.84	239140.51	238298.67	240498.34	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	525.10	527.73	516.36	523.06	1.14	ppb
Cobalt	59-2	518.19	515.36	504.36	512.63	1.43	ppb
Copper	63-2	5110.78	5055.14	5072.00	5079.31	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				98		%
Holmium	165-2				93		%
Indium	115-1				86		%
Indium	115-2				79		%
Iron	54-2	131163.11	131922.46	129163.12	130749.57	1.09	ppb
Iron	56-2	130286.35	129556.11	128904.79	129582.42	0.53	ppb
Iron	57-2	129952.26	131718.22	127575.63	129748.70	1.60	ppb
Krypton	83-1						cps
Lead	206-1	2517.39	2553.31	2650.95	2573.88	2.69	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2555.57	2583.58	2635.25	2591.47	1.56	ppb
Lead	208-1	2549.35	2576.41	2639.03	2588.27	1.78	ppb
Lithium	6-1				89		%
Magnesium	24-2	250525.84	246658.77	248598.43	248594.35	0.78	ppb
Manganese	55-2	5181.55	5175.73	5045.60	5134.30	1.50	ppb
Molybdenum	94-1	5019.88	5143.05	5173.37	5112.10	1.59	ppb
Molybdenum	95-1	5051.79	5158.35	5111.93	5107.36	1.05	ppb
Molybdenum	96-1	5005.85	5066.04	5040.85	5037.58	0.60	ppb
Molybdenum	97-1	4991.14	5052.10	5034.15	5025.80	0.62	ppb
Molybdenum	98-1	5029.97	5055.84	5075.85	5053.89	0.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	471.04	472.45	468.68	470.72	0.40	ppb
Phosphorus	31-2	10407.61	10259.66	10102.91	10256.73	1.49	ppb
Potassium	39-2	131792.11	130300.54	131907.41	131333.35	0.68	ppb
Rhodium	103-1				82		%
Rhodium	103-2				82		%
Scandium	45-1				89		%
Scandium	45-2				91		%
Selenium	82-1	487.69	494.22	495.13	492.35	0.82	ppb
Selenium	77-2	502.70	506.99	486.12	498.60	2.21	ppb
Selenium	78-2	487.63	511.26	493.87	497.59	2.46	ppb
Silicon	28-1	516.19	523.58	503.34	514.37	1.99	ppb
Silver	107-1	494.40	493.26	494.06	493.91	0.12	ppb
Silver	109-1	486.10	485.05	493.36	488.17	0.93	ppb
Sodium	23-2	240826.14	244493.59	240707.08	242008.94	0.89	ppb
Strontium	86-1	12806.12	12963.33	12829.55	12866.33	0.66	ppb
Strontium	88-1	12680.17	12770.21	12669.61	12706.66	0.44	ppb
Sulfur	34-1	11139.20	10839.14	10127.32	10701.89	4.86	ppb
Terbium	159-1				94		%
Terbium	159-2				91		%
Thallium	203-1	515.05	509.27	532.29	518.87	2.31	ppb
Thallium	205-1	513.01	513.11	528.44	518.19	1.71	ppb
Tin	118-1	506.97	504.77	507.04	506.26	0.26	ppb
Titanium	47-1	5142.98	5170.43	5113.18	5142.20	0.56	ppb
Uranium	238-1	524.56	531.07	529.81	528.48	0.65	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	525.07	525.76	526.83	525.89	0.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				91		%
Zinc	66-2	5359.74	5250.97	5155.40	5255.37	1.95	ppb
Zirconium	90-1	503.56	512.77	517.46	511.26	1.38	ppb
Zirconium	91-1	506.66	518.89	512.23	512.59	1.19	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.20	0.07	-0.08	-0.07		ppb
Antimony	121-1	0.05	0.04	0.04	0.04	10.54	ppb
Arsenic	75-2	0.01	0.01	-0.01	0.00	5550.90	ppb
Barium	135-1	0.02	0.02	0.01	0.02	28.97	ppb
Barium	137-1	0.01	0.01	0.01	0.01	25.69	ppb
Beryllium	9-1	0.03	0.03	0.02	0.03	11.38	ppb
Bismuth	209-1				105		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	0.01	0.00	-0.01		ppb
Cadmium	106-1	-1.40	-0.90	-0.97	-1.09		ppb
Cadmium	111-1	-0.10	-0.07	-0.07	-0.08		ppb
Calcium	43-1	-0.33	0.88	-0.12	0.14	452.13	ppb
Calcium	44-1	-0.51	-0.33	-0.35	-0.40		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	-0.02	0.00	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	169.02	ppb
Copper	63-2	0.00	-0.01	-0.01	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	-0.46	-0.94	-1.01	-0.80		ppb
Iron	56-2	0.90	1.07	0.80	0.92	14.91	ppb
Iron	57-2	0.53	0.76	0.60	0.63	18.77	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.05	0.04	0.05	12.72	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.03	0.04	0.04	15.36	ppb
Lead	208-1	0.05	0.04	0.04	0.04	11.56	ppb
Lithium	6-1				101		%
Magnesium	24-2	1.43	0.97	1.06	1.15	20.82	ppb
Manganese	55-2	0.16	0.12	0.04	0.10	57.65	ppb
Molybdenum	94-1	0.11	0.09	0.10	0.10	8.08	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	5.04	ppb
Molybdenum	96-1	0.05	0.06	0.05	0.05	8.12	ppb
Molybdenum	97-1	0.05	0.04	0.04	0.04	13.15	ppb
Molybdenum	98-1	0.05	0.05	0.04	0.05	14.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.02	0.01	0.00		ppb
Phosphorus	31-2	-115.22	-112.92	-106.53	-111.55		ppb
Potassium	39-2	11.59	8.74	10.76	10.36	14.15	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	-0.15	0.13	0.05	0.01	1457.31	ppb
Selenium	77-2	0.53	0.00	0.00	0.18	173.21	ppb
Selenium	78-2	-0.30	-0.31	-0.62	-0.41		ppb
Silicon	28-1	-0.43	-0.54	-0.46	-0.48		ppb
Silver	107-1	0.02	0.02	0.02	0.02	1.84	ppb
Silver	109-1	0.02	0.02	0.02	0.02	6.85	ppb
Sodium	23-2	28.90	26.52	26.65	27.36	4.90	ppb
Strontium	86-1	0.04	-0.22	-0.11	-0.10		ppb
Strontium	88-1	0.06	0.08	0.04	0.06	33.66	ppb
Sulfur	34-1	-632.48	-632.91	-593.76	-619.71		ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.01	0.01	0.01	23.68	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	2.27	ppb
Tin	118-1	0.00	0.00	0.01	0.00	648.31	ppb
Titanium	47-1	0.07	0.03	0.05	0.05	43.33	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	23.03	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	0.02	0.08	0.04	0.04	68.44	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	11.47	ppb
Zirconium	91-1	0.03	0.03	0.04	0.03	7.70	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6209.00	6171.66	6261.81	6214.15	0.73	ppb
Antimony	121-1	0.03	0.04	0.04	0.04	10.57	ppb
Arsenic	75-2	4.24	4.38	4.10	4.24	3.39	ppb
Barium	135-1	24.60	24.59	24.64	24.61	0.12	ppb
Barium	137-1	24.74	24.95	24.74	24.81	0.49	ppb
Beryllium	9-1	1.72	1.76	1.75	1.74	1.28	ppb
Bismuth	209-1				102		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.63	1.44	1.57	1.55	6.20	ppb
Cadmium	106-1	0.85	0.67	0.86	0.79	13.74	ppb
Cadmium	111-1	1.64	1.65	1.62	1.64	0.90	ppb
Calcium	43-1	57392.74	58968.56	59723.29	58694.86	2.03	ppb
Calcium	44-1	57978.24	58881.85	59475.24	58778.44	1.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.98	2.93	2.93	2.95	0.83	ppb
Cobalt	59-2	41.46	40.96	41.15	41.19	0.61	ppb
Copper	63-2	12.66	12.70	12.88	12.75	0.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	2092.06	2090.18	2094.48	2092.24	0.10	ppb
Iron	56-2	2138.38	2115.06	2093.54	2115.66	1.06	ppb
Iron	57-2	2052.89	2045.38	2070.53	2056.26	0.63	ppb
Krypton	83-1						cps
Lead	206-1	3.59	3.79	3.71	3.70	2.77	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.47	3.68	3.58	3.58	3.02	ppb
Lead	208-1	3.53	3.70	3.65	3.63	2.46	ppb
Lithium	6-1				103		%
Magnesium	24-2	10982.76	10947.65	10820.19	10916.87	0.78	ppb
Manganese	55-2	3446.77	3493.98	3493.63	3478.13	0.78	ppb
Molybdenum	94-1	0.29	0.30	0.29	0.29	1.94	ppb
Molybdenum	95-1	0.06	0.07	0.07	0.07	7.04	ppb
Molybdenum	96-1	0.06	0.06	0.07	0.06	5.19	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	1.55	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	2.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	29.41	29.07	29.56	29.35	0.86	ppb
Phosphorus	31-2	419.91	387.20	412.39	406.50	4.22	ppb
Potassium	39-2	12811.76	12622.57	12800.52	12744.95	0.83	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.53	0.17	0.07	0.26	93.53	ppb
Selenium	77-2	13.92	16.16	12.74	14.27	12.16	ppb
Selenium	78-2	2.78	2.40	3.04	2.74	11.82	ppb
Silicon	28-1	461.63	471.36	464.62	465.87	1.07	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.33	ppb
Silver	109-1	0.01	0.01	0.02	0.01	8.39	ppb
Sodium	23-2	3346.60	3407.59	3335.95	3363.38	1.15	ppb
Strontium	86-1	4932.72	5060.29	5018.68	5003.90	1.30	ppb
Strontium	88-1	5006.17	4996.28	4979.78	4994.08	0.27	ppb
Sulfur	34-1	60636.09	62839.08	63008.12	62161.10	2.13	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	0.14	0.15	0.14	0.14	3.51	ppb
Thallium	205-1	0.14	0.15	0.15	0.15	2.45	ppb
Tin	118-1	0.02	0.02	0.00	0.01	85.39	ppb
Titanium	47-1	0.87	1.00	0.99	0.95	7.31	ppb
Uranium	238-1	0.18	0.19	0.18	0.18	3.14	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.37	5.38	5.47	5.41	1.00	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				102		%
Zinc	66-2	395.70	400.95	400.30	398.98	0.72	ppb
Zirconium	90-1	0.15	0.16	0.16	0.15	2.93	ppb
Zirconium	91-1	0.15	0.15	0.14	0.15	1.87	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18426.98	16677.33	16854.82	17319.71	5.56	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	4.10	ppb
Arsenic	75-2	5.31	5.17	4.65	5.04	6.92	ppb
Barium	135-1	21.89	21.88	22.23	22.00	0.92	ppb
Barium	137-1	22.40	22.05	22.65	22.36	1.34	ppb
Beryllium	9-1	2.73	2.75	2.72	2.73	0.48	ppb
Bismuth	209-1				103		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.71	1.66	1.87	1.75	6.22	ppb
Cadmium	106-1	1.89	2.39	1.84	2.04	15.03	ppb
Cadmium	111-1	1.99	2.03	1.95	1.99	2.19	ppb
Calcium	43-1	38050.29	40304.78	39695.00	39350.02	2.96	ppb
Calcium	44-1	39176.88	41113.49	39893.02	40061.13	2.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.16	8.40	8.43	8.66	4.96	ppb
Cobalt	59-2	58.46	55.28	55.01	56.25	3.42	ppb
Copper	63-2	64.18	60.31	59.62	61.37	4.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				93		%
Iron	54-2	3478.72	3241.01	3228.06	3315.93	4.26	ppb
Iron	56-2	3510.46	3236.27	3236.73	3327.82	4.75	ppb
Iron	57-2	3398.53	3144.52	3180.99	3241.35	4.24	ppb
Krypton	83-1						cps
Lead	206-1	7.05	7.17	7.19	7.14	1.03	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.83	6.90	6.89	6.87	0.48	ppb
Lead	208-1	6.93	7.02	7.05	7.00	0.83	ppb
Lithium	6-1				102		%
Magnesium	24-2	7939.95	7350.14	7392.41	7560.83	4.35	ppb
Manganese	55-2	3969.29	3791.08	3739.85	3833.41	3.14	ppb
Molybdenum	94-1	0.29	0.26	0.29	0.28	5.73	ppb
Molybdenum	95-1	0.06	0.06	0.06	0.06	6.41	ppb
Molybdenum	96-1	0.06	0.05	0.05	0.06	5.42	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	2.19	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	10.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	48.17	44.47	44.80	45.81	4.47	ppb
Phosphorus	31-2	665.73	638.43	624.91	643.02	3.23	ppb
Potassium	39-2	8791.18	8343.09	8355.56	8496.61	3.00	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	1.14	1.19	0.59	0.97	33.99	ppb
Selenium	77-2	53.37	50.03	50.74	51.38	3.43	ppb
Selenium	78-2	9.26	10.65	8.37	9.43	12.18	ppb
Silicon	28-1	763.98	779.05	756.12	766.38	1.52	ppb
Silver	107-1	0.02	0.01	0.02	0.02	12.71	ppb
Silver	109-1	0.01	0.02	0.02	0.01	6.62	ppb
Sodium	23-2	2984.99	2659.25	2679.85	2774.70	6.57	ppb
Strontium	86-1	2769.66	2789.20	2792.93	2783.93	0.45	ppb
Strontium	88-1	2895.09	2875.91	2881.64	2884.21	0.34	ppb
Sulfur	34-1	60584.74	62228.27	62249.89	61687.63	1.55	ppb
Terbium	159-1				104		%
Terbium	159-2				96		%
Thallium	203-1	0.15	0.17	0.15	0.16	4.61	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	1.77	ppb
Tin	118-1	0.03	0.03	0.04	0.03	21.55	ppb
Titanium	47-1	1.37	1.43	1.44	1.41	2.71	ppb
Uranium	238-1	1.00	1.00	1.00	1.00	0.20	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	14.87	13.87	13.85	14.20	4.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				119		%
Yttrium	89-2				109		%
Zinc	66-2	390.45	362.64	368.42	373.84	3.93	ppb
Zirconium	90-1	0.13	0.13	0.14	0.13	4.35	ppb
Zirconium	91-1	0.13	0.14	0.13	0.13	4.72	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16752.14	16092.18	16434.04	16426.12	2.01	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	1.53	ppb
Arsenic	75-2	4.51	4.50	4.44	4.48	0.93	ppb
Barium	135-1	21.09	21.63	21.70	21.47	1.56	ppb
Barium	137-1	21.64	21.87	22.17	21.89	1.20	ppb
Beryllium	9-1	2.62	2.62	2.58	2.60	0.88	ppb
Bismuth	209-1				102		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.90	1.70	1.73	1.77	5.99	ppb
Cadmium	106-1	2.09	2.10	2.21	2.13	3.07	ppb
Cadmium	111-1	1.93	1.98	1.98	1.96	1.60	ppb
Calcium	43-1	39796.88	40045.82	38672.81	39505.17	1.85	ppb
Calcium	44-1	39278.01	39544.81	39133.87	39318.90	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.27	8.36	8.49	8.37	1.31	ppb
Cobalt	59-2	54.29	53.49	54.28	54.02	0.86	ppb
Copper	63-2	58.72	58.60	59.08	58.80	0.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				93		%
Iron	54-2	3147.97	3144.05	3160.35	3150.79	0.27	ppb
Iron	56-2	3200.07	3165.98	3168.22	3178.09	0.60	ppb
Iron	57-2	3141.66	3095.75	3093.79	3110.40	0.87	ppb
Krypton	83-1						cps
Lead	206-1	6.90	7.07	6.96	6.98	1.23	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.65	6.79	6.79	6.74	1.19	ppb
Lead	208-1	6.73	6.89	6.83	6.81	1.19	ppb
Lithium	6-1				103		%
Magnesium	24-2	7441.74	7176.61	7359.91	7326.08	1.85	ppb
Manganese	55-2	3630.54	3665.37	3644.89	3646.94	0.48	ppb
Molybdenum	94-1	0.24	0.26	0.28	0.26	7.09	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	3.38	ppb
Molybdenum	96-1	0.05	0.06	0.06	0.06	4.99	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.02	24.86	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	9.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	44.10	43.34	44.08	43.84	0.98	ppb
Phosphorus	31-2	631.74	589.88	671.46	631.03	6.46	ppb
Potassium	39-2	8405.72	8361.08	8412.80	8393.20	0.33	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	0.87	1.05	1.01	0.98	9.45	ppb
Selenium	77-2	57.23	60.99	58.14	58.79	3.33	ppb
Selenium	78-2	9.57	12.16	9.90	10.54	13.37	ppb
Silicon	28-1	731.04	743.41	751.56	742.00	1.39	ppb
Silver	107-1	0.01	0.02	0.02	0.01	10.27	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.78	ppb
Sodium	23-2	2683.18	2590.94	2654.64	2642.92	1.79	ppb
Strontium	86-1	2701.28	2768.23	2779.27	2749.59	1.53	ppb
Strontium	88-1	2808.59	2866.46	2833.06	2836.04	1.02	ppb
Sulfur	34-1	59833.65	61340.40	62461.77	61211.94	2.15	ppb
Terbium	159-1				104		%
Terbium	159-2				97		%
Thallium	203-1	0.15	0.15	0.17	0.16	4.38	ppb
Thallium	205-1	0.15	0.15	0.16	0.16	1.35	ppb
Tin	118-1	0.03	0.04	0.04	0.03	13.68	ppb
Titanium	47-1	1.46	1.42	1.43	1.44	1.24	ppb
Uranium	238-1	0.97	1.00	0.98	0.98	1.17	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	13.49	13.35	13.63	13.49	1.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				110		%
Zinc	66-2	360.51	351.46	359.56	357.18	1.39	ppb
Zirconium	90-1	0.12	0.13	0.12	0.12	3.51	ppb
Zirconium	91-1	0.13	0.13	0.13	0.13	1.49	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16362.00	18461.86	16758.27	17194.04	6.49	ppb
Antimony	121-1	0.03	0.02	0.03	0.03	2.82	ppb
Arsenic	75-2	4.49	5.63	4.65	4.93	12.52	ppb
Barium	135-1	21.34	21.84	21.77	21.65	1.26	ppb
Barium	137-1	21.67	22.38	22.25	22.10	1.70	ppb
Beryllium	9-1	2.56	2.64	2.61	2.60	1.51	ppb
Bismuth	209-1				102		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.65	1.63	1.71	1.66	2.54	ppb
Cadmium	106-1	2.46	2.51	2.09	2.35	9.88	ppb
Cadmium	111-1	1.96	2.01	1.98	1.98	1.47	ppb
Calcium	43-1	38943.47	38847.38	39702.24	39164.36	1.20	ppb
Calcium	44-1	38735.29	39232.84	39177.49	39048.54	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.48	9.35	8.13	8.66	7.26	ppb
Cobalt	59-2	54.77	60.80	53.83	56.47	6.70	ppb
Copper	63-2	59.13	65.97	58.32	61.14	6.87	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				90		%
Iron	54-2	3209.83	3593.94	3135.98	3313.25	7.42	ppb
Iron	56-2	3208.80	3585.94	3149.95	3314.90	7.14	ppb
Iron	57-2	3134.61	3508.83	3095.21	3246.22	7.03	ppb
Krypton	83-1						cps
Lead	206-1	6.85	6.89	7.01	6.92	1.20	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.67	6.69	6.90	6.76	1.89	ppb
Lead	208-1	6.73	6.80	6.89	6.81	1.12	ppb
Lithium	6-1				101		%
Magnesium	24-2	7245.94	8178.40	7213.11	7545.82	7.26	ppb
Manganese	55-2	3672.02	4178.57	3622.02	3824.21	8.05	ppb
Molybdenum	94-1	0.24	0.25	0.25	0.25	2.84	ppb
Molybdenum	95-1	0.06	0.05	0.06	0.06	8.59	ppb
Molybdenum	96-1	0.05	0.05	0.05	0.05	3.38	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.02	29.72	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	3.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	44.18	49.34	44.44	45.99	6.33	ppb
Phosphorus	31-2	618.08	744.22	647.12	669.81	9.86	ppb
Potassium	39-2	8365.46	9310.68	8090.54	8588.89	7.45	ppb
Rhodium	103-1				97		%
Rhodium	103-2				92		%
Scandium	45-1				99		%
Scandium	45-2				93		%
Selenium	82-1	1.04	0.79	1.13	0.99	18.06	ppb
Selenium	77-2	64.65	62.01	47.80	58.15	15.59	ppb
Selenium	78-2	10.96	9.52	8.35	9.61	13.63	ppb
Silicon	28-1	736.46	744.01	739.14	739.87	0.52	ppb
Silver	107-1	0.02	0.02	0.02	0.02	5.08	ppb
Silver	109-1	0.02	0.01	0.01	0.01	11.20	ppb
Sodium	23-2	2699.97	2955.85	2641.07	2765.63	6.05	ppb
Strontium	86-1	2748.75	2799.99	2766.31	2771.68	0.94	ppb
Strontium	88-1	2821.77	2872.67	2921.07	2871.84	1.73	ppb
Sulfur	34-1	59531.03	61667.11	61162.83	60786.99	1.84	ppb
Terbium	159-1				102		%
Terbium	159-2				94		%
Thallium	203-1	0.15	0.15	0.15	0.15	1.92	ppb
Thallium	205-1	0.16	0.16	0.15	0.16	1.25	ppb
Tin	118-1	0.04	0.04	0.03	0.04	9.57	ppb
Titanium	47-1	1.38	1.42	1.41	1.40	1.65	ppb
Uranium	238-1	0.97	1.00	0.98	0.98	1.47	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	13.65	15.32	13.54	14.17	7.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				107		%
Zinc	66-2	359.48	403.35	355.49	372.77	7.12	ppb
Zirconium	90-1	0.12	0.12	0.13	0.12	3.73	ppb
Zirconium	91-1	0.12	0.13	0.13	0.13	2.54	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17444.60	16925.60	17722.63	17364.28	2.33	ppb
Antimony	121-1	98.59	97.32	99.96	98.63	1.34	ppb
Arsenic	75-2	4.38	4.82	4.53	4.58	4.85	ppb
Barium	135-1	460.22	474.01	474.05	469.42	1.70	ppb
Barium	137-1	472.55	461.48	469.83	467.95	1.23	ppb
Beryllium	9-1	102.55	104.86	102.86	103.42	1.21	ppb
Bismuth	209-1				101		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	95.03	95.12	95.54	95.23	0.28	ppb
Cadmium	106-1	99.05	98.64	99.17	98.95	0.28	ppb
Cadmium	111-1	96.87	95.72	96.49	96.36	0.61	ppb
Calcium	43-1	45824.17	47334.62	46914.90	46691.23	1.67	ppb
Calcium	44-1	46658.90	47409.13	47596.23	47221.42	1.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.28	101.38	103.14	101.93	1.03	ppb
Cobalt	59-2	149.19	149.02	151.70	149.97	1.00	ppb
Copper	63-2	1094.15	1098.03	1105.86	1099.35	0.54	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				104		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	54-2	7727.62	7543.35	7850.55	7707.17	2.01	ppb
Iron	56-2	7422.16	7469.98	7627.85	7506.66	1.43	ppb
Iron	57-2	7273.03	7284.54	7427.30	7328.29	1.17	ppb
Krypton	83-1						cps
Lead	206-1	476.34	484.60	476.35	479.09	0.99	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	480.60	495.25	491.34	489.07	1.55	ppb
Lead	208-1	482.44	492.98	483.53	486.32	1.19	ppb
Lithium	6-1				100		%
Magnesium	24-2	16946.36	16604.66	17260.51	16937.18	1.94	ppb
Manganese	55-2	4417.58	4425.02	4623.47	4488.69	2.60	ppb
Molybdenum	94-1	409.45	396.86	400.85	402.39	1.60	ppb
Molybdenum	95-1	307.83	301.76	303.83	304.47	1.01	ppb
Molybdenum	96-1	315.12	312.10	311.62	312.94	0.61	ppb
Molybdenum	97-1	301.91	310.83	305.66	306.13	1.46	ppb
Molybdenum	98-1	303.94	312.45	302.06	306.15	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	136.73	137.32	138.15	137.40	0.52	ppb
Phosphorus	31-2	593.90	600.81	591.06	595.26	0.84	ppb
Potassium	39-2	12657.71	12192.12	12542.00	12463.94	1.94	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	84.43	86.18	86.15	85.59	1.17	ppb
Selenium	77-2	141.78	127.93	129.97	133.23	5.61	ppb
Selenium	78-2	100.55	99.06	91.07	96.89	5.26	ppb
Silicon	28-1	685.44	703.39	705.38	698.07	1.57	ppb
Silver	107-1	15.89	16.01	16.08	15.99	0.62	ppb
Silver	109-1	15.94	16.04	16.17	16.05	0.72	ppb
Sodium	23-2	12473.39	12218.23	12608.84	12433.49	1.60	ppb
Strontium	86-1	5279.93	5343.01	5343.79	5322.24	0.69	ppb
Strontium	88-1	5275.12	5329.98	5294.42	5299.84	0.53	ppb
Sulfur	34-1	54731.99	59010.76	58581.19	57441.31	4.10	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	93.49	97.51	97.14	96.05	2.31	ppb
Thallium	205-1	93.02	96.42	95.55	94.99	1.86	ppb
Tin	118-1	88.26	85.68	90.00	87.98	2.47	ppb
Titanium	47-1	1.55	1.54	1.60	1.56	1.98	ppb
Uranium	238-1	92.55	94.70	94.26	93.84	1.21	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.92	111.78	113.57	112.09	1.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				109		%
Zinc	66-2	1358.03	1353.22	1372.29	1361.18	0.73	ppb
Zirconium	90-1	82.04	82.74	84.16	82.98	1.30	ppb
Zirconium	91-1	80.08	80.41	80.84	80.44	0.48	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17566.04	17223.94	17382.99	17390.99	0.98	ppb
Antimony	121-1	97.13	98.31	98.04	97.83	0.63	ppb
Arsenic	75-2	4.53	4.25	4.50	4.43	3.46	ppb
Barium	135-1	464.64	468.14	471.92	468.23	0.78	ppb
Barium	137-1	459.05	470.21	468.13	465.80	1.27	ppb
Beryllium	9-1	100.90	103.01	107.80	103.90	3.40	ppb
Bismuth	209-1				101		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	94.97	95.28	95.69	95.31	0.38	ppb
Cadmium	106-1	96.48	100.20	100.37	99.02	2.22	ppb
Cadmium	111-1	94.49	96.14	96.97	95.87	1.31	ppb
Calcium	43-1	47278.92	48158.47	46805.28	47414.22	1.45	ppb
Calcium	44-1	46672.21	48117.35	46771.11	47186.89	1.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.57	101.80	101.98	101.45	0.76	ppb
Cobalt	59-2	146.13	148.78	148.97	147.96	1.07	ppb
Copper	63-2	1091.69	1085.96	1095.89	1091.18	0.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				91		%
Iron	54-2	7712.03	7690.48	7795.06	7732.53	0.71	ppb
Iron	56-2	7352.34	7387.60	7477.03	7405.66	0.87	ppb
Iron	57-2	7240.41	7284.18	7310.94	7278.51	0.49	ppb
Krypton	83-1						cps
Lead	206-1	470.38	489.20	481.24	480.27	1.97	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	480.15	493.94	498.67	490.92	1.96	ppb
Lead	208-1	475.79	489.51	492.66	485.99	1.85	ppb
Lithium	6-1				98		%
Magnesium	24-2	16710.82	16661.83	16900.24	16757.63	0.75	ppb
Manganese	55-2	4404.16	4450.26	4493.62	4449.35	1.01	ppb
Molybdenum	94-1	394.50	394.78	402.26	397.18	1.11	ppb
Molybdenum	95-1	302.32	305.68	307.59	305.20	0.87	ppb
Molybdenum	96-1	309.91	317.13	311.54	312.86	1.21	ppb
Molybdenum	97-1	299.56	297.99	300.70	299.42	0.45	ppb
Molybdenum	98-1	291.99	297.01	299.82	296.27	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	134.88	136.72	138.12	136.57	1.19	ppb
Phosphorus	31-2	640.04	591.79	632.22	621.35	4.17	ppb
Potassium	39-2	12179.11	12509.32	12281.14	12323.19	1.37	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	82.82	84.92	84.16	83.97	1.27	ppb
Selenium	77-2	137.58	130.75	134.66	134.33	2.55	ppb
Selenium	78-2	100.50	87.96	97.07	95.18	6.81	ppb
Silicon	28-1	714.09	728.25	698.34	713.56	2.10	ppb
Silver	107-1	15.93	16.24	16.50	16.22	1.76	ppb
Silver	109-1	15.78	16.14	16.34	16.08	1.74	ppb
Sodium	23-2	12247.39	12211.88	12309.99	12256.42	0.41	ppb
Strontium	86-1	5209.76	5261.67	5277.60	5249.68	0.68	ppb
Strontium	88-1	5164.03	5184.73	5214.24	5187.67	0.49	ppb
Sulfur	34-1	59305.02	58817.84	57501.52	58541.46	1.59	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	95.57	96.21	95.94	95.91	0.34	ppb
Thallium	205-1	94.54	95.62	94.69	94.95	0.61	ppb
Tin	118-1	87.27	87.60	89.05	87.97	1.07	ppb
Titanium	47-1	1.60	1.63	1.59	1.61	1.39	ppb
Uranium	238-1	92.01	93.97	94.52	93.50	1.41	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.79	111.19	110.94	110.97	0.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				110		%
Zinc	66-2	1327.22	1344.68	1356.80	1342.90	1.11	ppb
Zirconium	90-1	82.04	82.78	83.20	82.67	0.71	ppb
Zirconium	91-1	78.70	79.83	80.21	79.58	0.99	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17242.43	17167.51	17357.02	17255.66	0.55	ppb
Antimony	121-1	96.67	98.39	95.42	96.83	1.54	ppb
Arsenic	75-2	4.70	4.82	4.68	4.73	1.53	ppb
Barium	135-1	450.36	467.86	461.41	459.87	1.92	ppb
Barium	137-1	450.45	474.74	451.65	458.95	2.98	ppb
Beryllium	9-1	100.60	104.75	105.23	103.53	2.46	ppb
Bismuth	209-1				101		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	91.97	95.10	92.73	93.27	1.75	ppb
Cadmium	106-1	96.58	100.21	94.64	97.14	2.91	ppb
Cadmium	111-1	95.00	96.11	95.19	95.43	0.62	ppb
Calcium	43-1	47373.90	47172.61	47846.62	47464.38	0.73	ppb
Calcium	44-1	46965.91	47333.88	46977.62	47092.47	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.80	100.39	99.98	100.39	0.41	ppb
Cobalt	59-2	146.78	147.38	147.04	147.06	0.20	ppb
Copper	63-2	1086.76	1087.27	1063.44	1079.16	1.26	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				92		%
Iron	54-2	7542.90	7403.23	7549.38	7498.51	1.10	ppb
Iron	56-2	7478.27	7410.10	7356.10	7414.83	0.83	ppb
Iron	57-2	7183.32	7239.00	7207.49	7209.93	0.39	ppb
Krypton	83-1						cps
Lead	206-1	483.65	476.91	475.05	478.54	0.95	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	491.39	484.22	486.68	487.43	0.75	ppb
Lead	208-1	479.83	482.25	479.89	480.66	0.29	ppb
Lithium	6-1				98		%
Magnesium	24-2	16964.91	16951.56	16827.52	16914.66	0.45	ppb
Manganese	55-2	4449.87	4409.13	4375.20	4411.40	0.85	ppb
Molybdenum	94-1	391.78	384.71	406.52	394.34	2.82	ppb
Molybdenum	95-1	298.66	296.39	306.67	300.57	1.80	ppb
Molybdenum	96-1	303.10	309.23	316.13	309.49	2.11	ppb
Molybdenum	97-1	298.78	300.67	314.63	304.70	2.84	ppb
Molybdenum	98-1	299.39	298.38	306.62	301.46	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	134.40	136.43	132.60	134.48	1.42	ppb
Phosphorus	31-2	586.77	620.08	581.22	596.02	3.53	ppb
Potassium	39-2	12092.32	12059.35	12150.60	12100.76	0.38	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	85.84	85.38	87.85	86.35	1.52	ppb
Selenium	77-2	130.68	123.15	116.17	123.33	5.88	ppb
Selenium	78-2	94.70	89.43	92.27	92.13	2.86	ppb
Silicon	28-1	709.72	710.20	690.39	703.44	1.61	ppb
Silver	107-1	15.78	16.30	15.98	16.02	1.65	ppb
Silver	109-1	15.74	16.30	15.77	15.94	1.96	ppb
Sodium	23-2	12556.96	12092.19	12250.70	12299.95	1.92	ppb
Strontium	86-1	5245.89	5161.28	5360.54	5255.90	1.90	ppb
Strontium	88-1	5214.84	5159.94	5194.10	5189.62	0.53	ppb
Sulfur	34-1	57891.89	57609.25	58877.94	58126.36	1.15	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	94.90	95.07	93.59	94.52	0.86	ppb
Thallium	205-1	93.86	95.37	93.08	94.10	1.23	ppb
Tin	118-1	86.59	89.81	87.15	87.85	1.96	ppb
Titanium	47-1	1.63	1.57	1.53	1.58	3.21	ppb
Uranium	238-1	91.13	92.81	91.63	91.86	0.94	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.17	110.72	109.44	110.11	0.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				110		%
Zinc	66-2	1323.07	1335.84	1324.14	1327.68	0.53	ppb
Zirconium	90-1	80.34	84.64	81.48	82.15	2.72	ppb
Zirconium	91-1	78.51	79.70	80.56	79.59	1.29	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.68	0.05	0.56	0.43	78.88	ppb
Antimony	121-1	0.00	0.01	0.00	0.00	10.30	ppb
Arsenic	75-2	0.01	0.01	-0.01	0.00	4222.66	ppb
Barium	135-1	0.01	0.01	0.01	0.01	20.31	ppb
Barium	137-1	0.00	0.00	0.00	0.00	168.36	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	126.60	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.01	-0.01	-0.02		ppb
Cadmium	106-1	-1.86	-1.46	-1.30	-1.54		ppb
Cadmium	111-1	-0.14	-0.11	-0.10	-0.12		ppb
Calcium	43-1	-0.99	-0.05	-1.58	-0.88		ppb
Calcium	44-1	0.18	-0.44	0.11	-0.05		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	-0.01	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.02	-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				102		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	-1.49	-2.08	-1.93	-1.83		ppb
Iron	56-2	0.25	0.26	0.43	0.32	32.17	ppb
Iron	57-2	-0.09	0.30	0.06	0.09	217.17	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.01	0.02	0.01	18.91	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.02	0.01	41.01	ppb
Lead	208-1	0.01	0.01	0.01	0.01	10.56	ppb
Lithium	6-1				98		%
Magnesium	24-2	0.47	0.44	0.42	0.44	5.58	ppb
Manganese	55-2	-0.13	-0.22	-0.23	-0.20		ppb
Molybdenum	94-1	0.05	0.04	0.03	0.04	33.21	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	16.11	ppb
Molybdenum	96-1	0.02	0.01	0.01	0.01	25.62	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	24.69	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	11.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.00	0.01	0.01	117.50	ppb
Phosphorus	31-2	-117.67	-116.22	-125.74	-119.87		ppb
Potassium	39-2	6.36	6.20	8.11	6.89	15.37	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	0.06	-0.11	-0.10	-0.05		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.31	0.51	-0.29	-0.03		ppb
Silicon	28-1	-0.52	-0.35	-0.49	-0.46		ppb
Silver	107-1	0.00	0.00	0.01	0.00	21.58	ppb
Silver	109-1	0.00	0.00	0.00	0.00	2.55	ppb
Sodium	23-2	19.36	17.74	19.18	18.76	4.75	ppb
Strontium	86-1	-0.29	-0.24	-0.30	-0.28		ppb
Strontium	88-1	0.06	0.06	0.08	0.06	16.57	ppb
Sulfur	34-1	-205.92	-214.92	-216.58	-212.47		ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.00	0.00	0.00	0.00	59.61	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	13.82	ppb
Tin	118-1	0.00	0.02	-0.01	0.00	346.80	ppb
Titanium	47-1	0.02	0.02	0.03	0.02	20.54	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	0.22	0.12	0.09	0.14	45.48	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	14.10	ppb
Zirconium	91-1	0.02	0.01	0.01	0.02	25.97	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10249.58	10354.21	10457.39	10353.73	1.00	ppb
Antimony	121-1	497.57	515.52	506.43	506.51	1.77	ppb
Arsenic	75-2	503.64	502.91	520.00	508.85	1.90	ppb
Barium	135-1	2470.42	2572.79	2552.47	2531.89	2.14	ppb
Barium	137-1	2494.40	2584.66	2583.14	2554.07	2.02	ppb
Beryllium	9-1	514.80	530.37	523.71	522.96	1.49	ppb
Bismuth	209-1				96		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	498.70	518.35	518.23	511.76	2.21	ppb
Cadmium	106-1	508.01	517.55	513.19	512.92	0.93	ppb
Cadmium	111-1	512.69	515.64	515.87	514.74	0.34	ppb
Calcium	43-1	50963.35	49297.74	50819.01	50360.03	1.83	ppb
Calcium	44-1	50898.19	49980.28	50802.02	50560.16	1.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	523.29	513.40	532.93	523.21	1.87	ppb
Cobalt	59-2	519.89	526.47	525.14	523.84	0.66	ppb
Copper	63-2	5182.82	5270.73	5305.95	5253.16	1.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				95		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	54-2	25846.77	27049.33	26541.92	26479.34	2.28	ppb
Iron	56-2	25240.89	25911.49	25429.08	25527.15	1.35	ppb
Iron	57-2	25867.30	26482.61	26365.93	26238.62	1.25	ppb
Krypton	83-1						cps
Lead	206-1	2578.72	2490.77	2476.21	2515.23	2.20	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2525.89	2529.73	2482.98	2512.87	1.03	ppb
Lead	208-1	2525.47	2512.06	2492.64	2510.06	0.66	ppb
Lithium	6-1				94		%
Magnesium	24-2	52215.96	52842.92	53494.10	52851.00	1.21	ppb
Manganese	55-2	5148.88	5168.79	5210.41	5176.03	0.61	ppb
Molybdenum	94-1	5074.52	5051.73	4982.12	5036.13	0.96	ppb
Molybdenum	95-1	5090.21	5076.33	4887.32	5017.95	2.26	ppb
Molybdenum	96-1	5015.08	5061.43	4844.30	4973.60	2.30	ppb
Molybdenum	97-1	5013.53	4948.98	4818.95	4927.15	2.01	ppb
Molybdenum	98-1	5101.52	5011.92	4862.28	4991.91	2.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	489.81	495.96	498.22	494.66	0.88	ppb
Phosphorus	31-2	10190.92	10354.84	10269.27	10271.68	0.80	ppb
Potassium	39-2	25265.89	25986.11	25947.25	25733.08	1.57	ppb
Rhodium	103-1				90		%
Rhodium	103-2				89		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	498.29	510.55	492.91	500.59	1.81	ppb
Selenium	77-2	509.33	524.99	533.66	522.66	2.36	ppb
Selenium	78-2	492.54	509.90	517.43	506.62	2.52	ppb
Silicon	28-1	496.85	508.05	521.78	508.90	2.45	ppb
Silver	107-1	512.77	523.13	520.69	518.86	1.04	ppb
Silver	109-1	506.80	519.99	514.00	513.59	1.29	ppb
Sodium	23-2	51914.59	52657.41	52424.03	52332.01	0.73	ppb
Strontium	86-1	12381.94	12532.36	12705.56	12539.96	1.29	ppb
Strontium	88-1	12480.94	12610.65	12715.07	12602.22	0.93	ppb
Sulfur	34-1	10220.77	10220.77	10912.36	10451.30	3.82	ppb
Terbium	159-1				99		%
Terbium	159-2				93		%
Thallium	203-1	521.11	498.60	487.90	502.53	3.37	ppb
Thallium	205-1	522.54	502.76	493.95	506.42	2.89	ppb
Tin	118-1	491.60	515.31	509.08	505.33	2.43	ppb
Titanium	47-1	5144.71	5032.99	5128.56	5102.09	1.18	ppb
Uranium	238-1	493.01	495.80	498.73	495.85	0.58	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	516.01	517.52	526.18	519.90	1.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	5148.36	5282.37	5168.23	5199.66	1.39	ppb
Zirconium	90-1	505.38	500.85	502.89	503.04	0.45	ppb
Zirconium	91-1	506.01	513.34	502.71	507.35	1.07	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21561.38	20611.48	21253.92	21142.26	2.29	ppb
Antimony	121-1	0.10	0.09	0.10	0.10	3.64	ppb
Arsenic	75-2	33.18	31.68	33.52	32.79	2.98	ppb
Barium	135-1	38.16	39.16	40.54	39.29	3.04	ppb
Barium	137-1	39.04	39.91	41.01	39.99	2.47	ppb
Beryllium	9-1	2.65	2.69	2.59	2.64	2.02	ppb
Bismuth	209-1				106		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	3.20	3.42	3.78	3.47	8.52	ppb
Cadmium	106-1	5.66	6.09	6.32	6.02	5.54	ppb
Cadmium	111-1	0.48	0.51	0.52	0.50	4.16	ppb
Calcium	43-1	2731.68	2735.10	2760.02	2742.26	0.56	ppb
Calcium	44-1	2693.96	2675.03	2730.67	2699.89	1.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.49	48.38	50.38	49.75	2.39	ppb
Cobalt	59-2	13.01	12.77	13.06	12.95	1.21	ppb
Copper	63-2	26.43	25.65	26.06	26.04	1.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	54-2	60458.48	57842.16	59852.66	59384.43	2.31	ppb
Iron	56-2	59558.52	57527.58	59328.33	58804.81	1.89	ppb
Iron	57-2	60534.66	57550.85	59543.20	59209.57	2.57	ppb
Krypton	83-1						cps
Lead	206-1	32.65	33.02	33.81	33.16	1.79	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	31.95	32.27	32.78	32.33	1.29	ppb
Lead	208-1	32.28	32.68	33.24	32.73	1.47	ppb
Lithium	6-1				102		%
Magnesium	24-2	7651.10	7470.86	7673.43	7598.46	1.46	ppb
Manganese	55-2	317.37	308.73	317.33	314.48	1.58	ppb
Molybdenum	94-1	58.11	58.39	58.19	58.23	0.24	ppb
Molybdenum	95-1	14.27	14.49	14.34	14.36	0.80	ppb
Molybdenum	96-1	18.89	20.18	18.85	19.31	3.93	ppb
Molybdenum	97-1	14.29	14.36	14.07	14.24	1.04	ppb
Molybdenum	98-1	14.18	14.24	14.20	14.21	0.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	29.19	28.40	28.88	28.82	1.39	ppb
Phosphorus	31-2	221.55	236.35	187.78	215.22	11.57	ppb
Potassium	39-2	3725.75	3605.70	3704.08	3678.51	1.74	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	1.67	2.29	2.04	2.00	15.51	ppb
Selenium	77-2	56.86	62.29	60.11	59.75	4.58	ppb
Selenium	78-2	9.42	9.06	8.68	9.05	4.11	ppb
Silicon	28-1	251.74	231.71	239.33	240.93	4.19	ppb
Silver	107-1	0.14	0.14	0.14	0.14	0.82	ppb
Silver	109-1	0.11	0.11	0.11	0.11	0.72	ppb
Sodium	23-2	19415.25	18801.48	19363.25	19193.32	1.77	ppb
Strontium	86-1	1122.98	1153.08	1115.68	1130.58	1.75	ppb
Strontium	88-1	1147.37	1146.70	1149.52	1147.86	0.13	ppb
Sulfur	34-1	53300.70	52634.53	52086.52	52673.92	1.15	ppb
Terbium	159-1				107		%
Terbium	159-2				99		%
Thallium	203-1	0.33	0.34	0.34	0.34	2.27	ppb
Thallium	205-1	0.33	0.33	0.34	0.33	1.27	ppb
Tin	118-1	3.93	4.46	3.76	4.05	9.08	ppb
Titanium	47-1	359.88	231.78	216.86	269.50	29.17	ppb
Uranium	238-1	4.41	4.52	4.57	4.50	1.80	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	87.98	85.38	87.65	87.00	1.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				107		%
Zinc	66-2	111.30	108.26	112.97	110.85	2.15	ppb
Zirconium	90-1	24.89	25.63	25.25	25.26	1.46	ppb
Zirconium	91-1	25.30	25.78	25.36	25.48	1.04	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47849.27	47244.44	50360.90	48484.87	3.41	ppb
Antimony	121-1	480.65	500.96	497.41	493.01	2.20	ppb
Arsenic	75-2	474.87	460.76	503.46	479.70	4.54	ppb
Barium	135-1	2430.14	2534.85	2512.90	2492.63	2.22	ppb
Barium	137-1	2450.84	2507.45	2555.36	2504.55	2.09	ppb
Beryllium	9-1	525.22	521.58	529.19	525.33	0.72	ppb
Bismuth	209-1				91		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	482.97	495.78	501.88	493.54	1.96	ppb
Cadmium	106-1	480.79	495.76	503.21	493.25	2.32	ppb
Cadmium	111-1	475.18	495.69	492.25	487.71	2.25	ppb
Calcium	43-1	230526.07	233431.40	236688.84	233548.77	1.32	ppb
Calcium	44-1	233471.26	231330.28	240827.73	235209.76	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	506.31	485.88	516.55	502.91	3.11	ppb
Cobalt	59-2	481.94	468.04	504.25	484.75	3.77	ppb
Copper	63-2	4862.14	4709.03	5046.51	4872.56	3.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				89		%
Indium	115-2				88		%
Iron	54-2	126636.60	121752.55	130267.97	126219.04	3.39	ppb
Iron	56-2	123761.47	121259.08	128593.48	124538.01	2.99	ppb
Iron	57-2	121846.09	120703.53	129331.57	123960.40	3.78	ppb
Krypton	83-1						cps
Lead	206-1	2504.64	2539.40	2576.35	2540.13	1.41	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2534.74	2510.46	2537.28	2527.49	0.59	ppb
Lead	208-1	2528.19	2511.57	2553.90	2531.22	0.84	ppb
Lithium	6-1				89		%
Magnesium	24-2	233707.65	232427.99	249221.46	238452.37	3.92	ppb
Manganese	55-2	4910.79	4805.84	5122.96	4946.53	3.27	ppb
Molybdenum	94-1	4896.09	5028.99	5063.07	4996.05	1.77	ppb
Molybdenum	95-1	4850.69	5102.26	5056.00	5002.98	2.68	ppb
Molybdenum	96-1	4901.56	5061.29	4985.25	4982.70	1.60	ppb
Molybdenum	97-1	4913.54	5024.48	5033.14	4990.39	1.34	ppb
Molybdenum	98-1	4903.59	5049.23	5114.38	5022.40	2.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	451.61	435.33	466.34	451.09	3.44	ppb
Phosphorus	31-2	9624.54	9501.24	10115.56	9747.11	3.33	ppb
Potassium	39-2	127654.49	121555.44	133202.26	127470.73	4.57	ppb
Rhodium	103-1				85		%
Rhodium	103-2				88		%
Scandium	45-1				93		%
Scandium	45-2				97		%
Selenium	82-1	478.35	493.10	492.99	488.15	1.74	ppb
Selenium	77-2	473.02	454.70	535.13	487.62	8.64	ppb
Selenium	78-2	485.38	457.66	487.55	476.86	3.50	ppb
Silicon	28-1	492.59	486.29	505.25	494.71	1.95	ppb
Silver	107-1	471.53	496.54	484.28	484.11	2.58	ppb
Silver	109-1	470.26	481.99	483.11	478.45	1.49	ppb
Sodium	23-2	231789.91	225456.40	244276.09	233840.80	4.10	ppb
Strontium	86-1	12183.85	12530.95	12689.04	12467.95	2.07	ppb
Strontium	88-1	12341.55	12712.50	12741.81	12598.62	1.77	ppb
Sulfur	34-1	10258.27	9689.14	10746.55	10231.32	5.17	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	504.80	511.91	503.89	506.87	0.87	ppb
Thallium	205-1	503.32	515.14	514.89	511.12	1.32	ppb
Tin	118-1	486.54	496.91	490.92	491.46	1.06	ppb
Titanium	47-1	4914.03	4983.44	5131.20	5009.56	2.21	ppb
Uranium	238-1	518.50	510.29	525.45	518.08	1.46	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	502.69	487.31	522.93	504.31	3.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	4981.27	4837.14	5144.89	4987.77	3.09	ppb
Zirconium	90-1	492.15	505.77	511.97	503.30	2.01	ppb
Zirconium	91-1	491.52	512.20	513.08	505.60	2.41	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.13	-0.02	-0.05	-0.07		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	3.19	ppb
Arsenic	75-2	-0.01	0.00	-0.01	-0.01		ppb
Barium	135-1	0.04	0.02	0.03	0.03	29.24	ppb
Barium	137-1	0.03	0.02	0.01	0.02	34.20	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	497.06	ppb
Bismuth	209-1				105		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.06	-0.06	-0.05		ppb
Cadmium	106-1	-2.30	-2.28	-2.33	-2.30		ppb
Cadmium	111-1	-0.17	-0.18	-0.18	-0.18		ppb
Calcium	43-1	45.28	45.95	43.97	45.07	2.24	ppb
Calcium	44-1	42.20	45.31	44.25	43.92	3.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.07	0.07	0.06	14.07	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.07	0.05	0.04	0.05	23.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	-1.42	-1.25	-1.55	-1.41		ppb
Iron	56-2	0.93	0.79	0.96	0.89	10.31	ppb
Iron	57-2	0.52	0.72	0.85	0.70	24.07	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.01	0.01	0.01	19.60	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.00	0.01	43.55	ppb
Lead	208-1	0.01	0.01	0.01	0.01	5.06	ppb
Lithium	6-1				99		%
Magnesium	24-2	0.12	-0.11	0.46	0.16	185.45	ppb
Manganese	55-2	-1.39	-1.45	-1.36	-1.40		ppb
Molybdenum	94-1	0.01	0.01	0.00	0.01	69.36	ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	45.48	ppb
Molybdenum	96-1	0.00	-0.01	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	77.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	0.06	0.04	0.05	23.75	ppb
Phosphorus	31-2	-118.92	-120.80	-118.07	-119.26		ppb
Potassium	39-2	9.26	9.73	10.95	9.98	8.73	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.09	-0.25	0.10	-0.02		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.30	-0.01	-0.61	-0.31		ppb
Silicon	28-1	-1.14	-1.04	-1.04	-1.08		ppb
Silver	107-1	0.00	0.00	0.00	0.00	88.51	ppb
Silver	109-1	0.00	0.00	0.00	0.00	46.26	ppb
Sodium	23-2	9.33	9.54	9.58	9.48	1.41	ppb
Strontium	86-1	0.62	0.60	0.59	0.60	2.62	ppb
Strontium	88-1	0.62	0.65	0.74	0.67	9.02	ppb
Sulfur	34-1	-1372.18	-1168.47	-1224.03	-1254.89		ppb
Terbium	159-1				104		%
Terbium	159-2				98		%
Thallium	203-1	0.00	0.00	0.00	0.00	142.20	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	121.78	ppb
Tin	118-1	0.16	0.15	0.14	0.15	5.82	ppb
Titanium	47-1	-0.02	0.03	0.01	0.01	319.09	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	2.50	2.26	2.53	2.43	6.15	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	417.88	ppb
Zirconium	91-1	-0.01	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	56371.67	54765.24	55319.63	55485.52	1.47	ppb
Antimony	121-1	0.05	0.06	0.06	0.06	5.74	ppb
Arsenic	75-2	46.75	44.69	46.23	45.89	2.34	ppb
Barium	135-1	217.59	222.45	220.83	220.29	1.12	ppb
Barium	137-1	233.16	232.87	232.45	232.83	0.15	ppb
Beryllium	9-1	2.14	2.18	2.11	2.14	1.55	ppb
Bismuth	209-1				103		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	6.53	6.83	6.48	6.61	2.82	ppb
Cadmium	106-1	11.39	11.97	11.34	11.57	3.05	ppb
Cadmium	111-1	0.65	0.69	0.65	0.66	3.29	ppb
Calcium	43-1	2247.74	2296.41	2230.67	2258.27	1.51	ppb
Calcium	44-1	2272.74	2270.14	2270.07	2270.98	0.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	117.13	115.53	114.24	115.63	1.26	ppb
Cobalt	59-2	19.87	19.41	19.08	19.45	2.04	ppb
Copper	63-2	73.81	73.10	70.93	72.62	2.07	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	86550.79	86190.67	84714.84	85818.77	1.13	ppb
Iron	56-2	85922.82	86100.57	84929.50	85650.96	0.74	ppb
Iron	57-2	86593.43	85492.08	83870.59	85318.70	1.61	ppb
Krypton	83-1						cps
Lead	206-1	50.65	50.24	51.39	50.76	1.14	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	48.89	49.47	50.18	49.52	1.31	ppb
Lead	208-1	51.55	51.87	52.34	51.92	0.76	ppb
Lithium	6-1				103		%
Magnesium	24-2	14184.83	14087.95	13870.75	14047.84	1.14	ppb
Manganese	55-2	449.56	451.07	443.49	448.04	0.90	ppb
Molybdenum	94-1	96.51	94.18	94.75	95.15	1.28	ppb
Molybdenum	95-1	2.02	2.00	2.08	2.03	2.05	ppb
Molybdenum	96-1	12.03	12.04	11.95	12.01	0.41	ppb
Molybdenum	97-1	2.06	2.10	2.06	2.07	1.21	ppb
Molybdenum	98-1	2.05	2.04	2.03	2.04	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	57.96	57.01	55.87	56.95	1.84	ppb
Phosphorus	31-2	729.56	686.11	712.55	709.41	3.09	ppb
Potassium	39-2	7820.59	7700.78	7355.41	7625.59	3.17	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				109		%
Scandium	45-2				107		%
Selenium	82-1	1.93	2.02	2.12	2.02	4.73	ppb
Selenium	77-2	99.50	77.56	72.33	83.13	17.34	ppb
Selenium	78-2	12.09	9.55	10.06	10.57	12.71	ppb
Silicon	28-1	368.64	409.44	332.38	370.16	10.41	ppb
Silver	107-1	0.17	0.18	0.17	0.18	2.58	ppb
Silver	109-1	0.10	0.10	0.11	0.11	4.21	ppb
Sodium	23-2	16045.46	15558.73	15707.95	15770.71	1.58	ppb
Strontium	86-1	1137.51	1121.27	1160.78	1139.86	1.74	ppb
Strontium	88-1	1145.74	1134.32	1153.98	1144.68	0.86	ppb
Sulfur	34-1	1806.78	1927.82	1689.25	1807.95	6.60	ppb
Terbium	159-1				107		%
Terbium	159-2				100		%
Thallium	203-1	0.49	0.47	0.49	0.48	2.46	ppb
Thallium	205-1	0.49	0.49	0.49	0.49	0.72	ppb
Tin	118-1	3.36	3.39	3.64	3.46	4.49	ppb
Titanium	47-1	413.10	413.91	397.61	408.20	2.25	ppb
Uranium	238-1	4.90	4.95	5.00	4.95	1.03	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	163.96	164.92	163.66	164.18	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				108		%
Zinc	66-2	208.19	206.80	203.17	206.05	1.26	ppb
Zirconium	90-1	51.77	53.00	53.29	52.69	1.53	ppb
Zirconium	91-1	50.53	50.12	50.30	50.32	0.40	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6157.16	6085.07	6142.08	6128.10	0.62	ppb
Antimony	121-1	0.05	0.06	0.06	0.05	8.97	ppb
Arsenic	75-2	7.22	6.61	7.23	7.02	5.07	ppb
Barium	135-1	70.05	71.79	70.77	70.87	1.23	ppb
Barium	137-1	70.92	72.27	71.85	71.68	0.97	ppb
Beryllium	9-1	0.48	0.50	0.51	0.50	2.29	ppb
Bismuth	209-1				105		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.08	1.18	1.25	1.17	7.42	ppb
Cadmium	106-1	-0.38	0.22	-0.20	-0.12		ppb
Cadmium	111-1	0.04	0.07	0.06	0.06	26.08	ppb
Calcium	43-1	1584.32	1605.71	1614.15	1601.39	0.96	ppb
Calcium	44-1	1593.00	1610.91	1620.29	1608.07	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.98	18.79	18.99	18.92	0.58	ppb
Cobalt	59-2	5.14	5.08	5.09	5.10	0.59	ppb
Copper	63-2	11.95	11.99	12.01	11.98	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				106		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	10334.21	10261.41	10348.86	10314.83	0.45	ppb
Iron	56-2	10404.90	10199.25	9911.65	10171.93	2.44	ppb
Iron	57-2	10014.98	9892.79	9907.32	9938.36	0.67	ppb
Krypton	83-1						cps
Lead	206-1	19.96	20.28	19.92	20.05	0.98	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.08	19.47	19.39	19.31	1.06	ppb
Lead	208-1	19.42	19.84	19.55	19.60	1.09	ppb
Lithium	6-1				100		%
Magnesium	24-2	3094.25	3057.74	3105.57	3085.86	0.81	ppb
Manganese	55-2	118.95	117.24	116.49	117.56	1.07	ppb
Molybdenum	94-1	16.95	17.29	17.10	17.12	0.99	ppb
Molybdenum	95-1	2.90	2.94	2.96	2.93	1.08	ppb
Molybdenum	96-1	4.34	4.30	4.38	4.34	0.84	ppb
Molybdenum	97-1	2.98	2.93	2.91	2.94	1.28	ppb
Molybdenum	98-1	2.95	2.93	2.89	2.92	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.74	9.88	10.01	9.87	1.35	ppb
Phosphorus	31-2	43.49	28.83	36.36	36.23	20.24	ppb
Potassium	39-2	1711.70	1692.36	1681.57	1695.21	0.90	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.80	0.78	0.67	0.75	9.06	ppb
Selenium	77-2	18.17	15.18	13.87	15.74	14.00	ppb
Selenium	78-2	2.96	2.56	1.53	2.35	31.32	ppb
Silicon	28-1	121.12	112.51	411.39	215.01	79.13	ppb
Silver	107-1	0.06	0.07	0.06	0.06	1.98	ppb
Silver	109-1	0.06	0.05	0.06	0.06	3.72	ppb
Sodium	23-2	15214.30	15297.51	15410.92	15307.58	0.64	ppb
Strontium	86-1	603.52	583.87	582.31	589.90	2.00	ppb
Strontium	88-1	617.05	613.23	613.08	614.45	0.37	ppb
Sulfur	34-1	5480.71	5488.42	5485.51	5484.88	0.07	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.16	0.17	0.17	0.17	2.87	ppb
Thallium	205-1	0.17	0.17	0.16	0.17	2.57	ppb
Tin	118-1	4.03	4.05	4.49	4.19	6.27	ppb
Titanium	47-1	143.13	139.54	146.70	143.12	2.50	ppb
Uranium	238-1	1.22	1.23	1.20	1.22	0.89	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	16.48	16.64	16.53	16.55	0.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	68.11	69.23	66.83	68.06	1.76	ppb
Zirconium	90-1	8.00	7.98	7.86	7.95	0.98	ppb
Zirconium	91-1	7.76	9.39	8.83	8.66	9.58	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32329.55	33768.64	31275.78	32457.99	3.86	ppb
Antimony	121-1	20.11	21.38	21.41	20.97	3.54	ppb
Arsenic	75-2	24.02	25.90	23.74	24.55	4.79	ppb
Barium	135-1	67.49	72.88	71.65	70.67	4.00	ppb
Barium	137-1	69.38	73.22	71.52	71.38	2.69	ppb
Beryllium	9-1	2.30	2.42	2.33	2.35	2.66	ppb
Bismuth	209-1				105		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	3.73	3.84	3.92	3.83	2.52	ppb
Cadmium	106-1	4.26	6.44	6.52	5.74	22.36	ppb
Cadmium	111-1	0.82	1.05	1.02	0.96	12.82	ppb
Calcium	43-1	4199.39	4296.22	4288.10	4261.24	1.26	ppb
Calcium	44-1	4141.39	4347.84	4234.00	4241.08	2.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.21	54.67	51.52	52.80	3.13	ppb
Cobalt	59-2	19.03	19.51	18.81	19.11	1.87	ppb
Copper	63-2	36.52	37.54	35.74	36.60	2.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	58814.04	61532.85	58182.75	59509.88	2.99	ppb
Iron	56-2	59342.53	61282.77	58432.16	59685.82	2.44	ppb
Iron	57-2	58757.19	61589.86	57747.62	59364.89	3.36	ppb
Krypton	83-1						cps
Lead	206-1	41.19	42.95	42.36	42.17	2.12	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	40.30	41.70	40.91	40.97	1.71	ppb
Lead	208-1	42.19	42.01	41.55	41.92	0.79	ppb
Lithium	6-1				101		%
Magnesium	24-2	10156.15	10489.35	9680.48	10108.66	4.02	ppb
Manganese	55-2	495.93	515.45	489.53	500.30	2.70	ppb
Molybdenum	94-1	52.78	54.32	53.32	53.47	1.46	ppb
Molybdenum	95-1	9.39	9.71	9.42	9.50	1.83	ppb
Molybdenum	96-1	13.92	14.62	13.79	14.11	3.14	ppb
Molybdenum	97-1	9.25	9.59	9.36	9.40	1.83	ppb
Molybdenum	98-1	9.21	9.57	9.25	9.35	2.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	42.59	44.65	42.33	43.19	2.94	ppb
Phosphorus	31-2	727.92	710.08	652.18	696.73	5.68	ppb
Potassium	39-2	6069.31	6302.30	5977.69	6116.43	2.74	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	2.20	2.44	2.53	2.39	7.25	ppb
Selenium	77-2	53.79	62.01	60.28	58.69	7.39	ppb
Selenium	78-2	10.88	11.67	11.80	11.45	4.34	ppb
Silicon	28-1	229.30	198.11	222.41	216.61	7.57	ppb
Silver	107-1	0.17	0.18	0.18	0.18	3.80	ppb
Silver	109-1	0.14	0.15	0.15	0.15	4.96	ppb
Sodium	23-2	22350.30	23288.53	21533.72	22390.85	3.92	ppb
Strontium	86-1	1502.96	1557.33	1507.97	1522.75	1.97	ppb
Strontium	88-1	3194.00	1618.36	1688.55	2166.97	41.08	ppb
Sulfur	34-1	44209.28	46916.34	45482.06	45535.89	2.97	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.61	0.62	0.61	0.61	1.30	ppb
Thallium	205-1	0.59	0.63	0.61	0.61	2.51	ppb
Tin	118-1	2.16	2.31	2.55	2.34	8.37	ppb
Titanium	47-1	233.56	228.93	231.59	231.36	1.00	ppb
Uranium	238-1	6.24	6.46	6.44	6.38	1.89	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	73.12	75.13	71.37	73.21	2.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				107		%
Zinc	66-2	268.19	276.61	262.13	268.97	2.70	ppb
Zirconium	90-1	24.33	25.29	24.30	24.64	2.29	ppb
Zirconium	91-1	24.38	25.46	24.72	24.85	2.21	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	31438.50	32802.43	33427.12	32556.01	3.12	ppb
Antimony	121-1	2.80	2.94	2.89	2.88	2.62	ppb
Arsenic	75-2	25.07	23.80	25.79	24.89	4.06	ppb
Barium	135-1	68.00	69.91	69.53	69.15	1.46	ppb
Barium	137-1	68.79	70.77	71.21	70.26	1.84	ppb
Beryllium	9-1	2.32	2.42	2.37	2.37	2.17	ppb
Bismuth	209-1				104		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	3.58	4.26	4.13	3.99	9.10	ppb
Cadmium	106-1	5.88	6.93	5.99	6.27	9.16	ppb
Cadmium	111-1	0.92	0.97	0.90	0.93	4.13	ppb
Calcium	43-1	4425.58	4506.52	4564.02	4498.71	1.55	ppb
Calcium	44-1	4382.56	4507.97	4599.46	4496.66	2.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.08	52.27	53.13	52.16	1.97	ppb
Cobalt	59-2	18.88	18.93	19.49	19.10	1.76	ppb
Copper	63-2	33.87	34.16	35.08	34.37	1.85	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				104		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	60582.69	60803.58	62701.81	61362.69	1.90	ppb
Iron	56-2	59773.41	60972.50	63353.08	61366.33	2.97	ppb
Iron	57-2	60803.32	61815.26	62293.83	61637.47	1.23	ppb
Krypton	83-1						cps
Lead	206-1	37.98	37.98	37.39	37.78	0.90	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	36.55	36.98	36.11	36.54	1.18	ppb
Lead	208-1	37.27	37.24	36.79	37.10	0.72	ppb
Lithium	6-1				102		%
Magnesium	24-2	9765.50	9964.86	10151.96	9960.77	1.94	ppb
Manganese	55-2	494.17	502.27	515.17	503.87	2.10	ppb
Molybdenum	94-1	55.35	56.20	55.57	55.70	0.79	ppb
Molybdenum	95-1	9.29	9.33	9.15	9.26	1.00	ppb
Molybdenum	96-1	14.14	14.15	14.19	14.16	0.19	ppb
Molybdenum	97-1	9.36	9.23	9.18	9.26	1.02	ppb
Molybdenum	98-1	9.30	9.15	9.25	9.23	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	40.53	40.87	41.90	41.10	1.74	ppb
Phosphorus	31-2	474.51	488.70	473.70	478.97	1.76	ppb
Potassium	39-2	5564.70	5626.84	5772.23	5654.59	1.88	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	2.50	2.41	2.34	2.41	3.39	ppb
Selenium	77-2	57.94	51.65	56.74	55.44	6.02	ppb
Selenium	78-2	10.66	9.77	12.74	11.06	13.80	ppb
Silicon	28-1	250.18	200.74	285.81	245.58	17.40	ppb
Silver	107-1	0.17	0.18	0.18	0.17	2.82	ppb
Silver	109-1	0.14	0.14	0.14	0.14	2.33	ppb
Sodium	23-2	20957.92	20947.60	21723.92	21209.81	2.10	ppb
Strontium	86-1	1571.74	1577.70	1574.34	1574.59	0.19	ppb
Strontium	88-1	1625.35	1685.44	1608.66	1639.82	2.46	ppb
Sulfur	34-1	46267.17	47155.19	48818.70	47413.69	2.73	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	0.58	0.60	0.58	0.59	1.76	ppb
Thallium	205-1	0.59	0.62	0.59	0.60	2.50	ppb
Tin	118-1	1.89	2.34	2.11	2.12	10.61	ppb
Titanium	47-1	230.50	241.80	246.09	239.46	3.36	ppb
Uranium	238-1	6.37	6.47	6.33	6.39	1.12	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	70.06	71.08	71.87	71.00	1.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				109		%
Zinc	66-2	152.81	151.34	155.32	153.16	1.31	ppb
Zirconium	90-1	25.55	26.20	26.64	26.13	2.10	ppb
Zirconium	91-1	26.10	26.17	26.22	26.16	0.23	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6328.47	6327.72	6295.26	6317.15	0.30	ppb
Antimony	121-1	5.71	5.80	5.87	5.79	1.36	ppb
Arsenic	75-2	4.68	4.73	5.00	4.80	3.53	ppb
Barium	135-1	13.65	13.95	13.93	13.84	1.20	ppb
Barium	137-1	14.19	14.01	14.11	14.10	0.63	ppb
Beryllium	9-1	0.43	0.44	0.46	0.44	3.60	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.48	0.77	0.89	0.71	29.88	ppb
Cadmium	106-1	-0.12	-0.65	-0.58	-0.45		ppb
Cadmium	111-1	0.09	0.05	0.05	0.06	38.44	ppb
Calcium	43-1	796.05	811.03	825.52	810.87	1.82	ppb
Calcium	44-1	814.62	807.62	816.71	812.98	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.30	10.39	10.19	10.29	0.99	ppb
Cobalt	59-2	3.74	3.79	3.76	3.76	0.69	ppb
Copper	63-2	7.39	7.43	7.41	7.41	0.22	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				94		%
Iron	54-2	12075.71	11956.57	11859.70	11963.99	0.90	ppb
Iron	56-2	11560.86	11524.16	11427.71	11504.24	0.60	ppb
Iron	57-2	11348.85	11357.37	11101.02	11269.08	1.29	ppb
Krypton	83-1						cps
Lead	206-1	8.33	8.63	8.71	8.56	2.32	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	8.22	8.40	8.46	8.36	1.52	ppb
Lead	208-1	8.27	8.53	8.56	8.45	1.89	ppb
Lithium	6-1				101		%
Magnesium	24-2	2050.62	2053.13	2042.46	2048.74	0.27	ppb
Manganese	55-2	96.56	98.71	96.38	97.22	1.33	ppb
Molybdenum	94-1	10.46	10.72	11.64	10.94	5.66	ppb
Molybdenum	95-1	1.95	1.94	1.97	1.95	0.71	ppb
Molybdenum	96-1	2.82	2.90	2.89	2.87	1.52	ppb
Molybdenum	97-1	1.99	1.93	1.93	1.95	1.86	ppb
Molybdenum	98-1	1.91	1.95	1.96	1.94	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.64	8.87	8.57	8.69	1.82	ppb
Phosphorus	31-2	62.91	62.60	54.86	60.12	7.58	ppb
Potassium	39-2	1257.64	1244.47	1256.74	1252.95	0.59	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	0.32	0.35	0.56	0.41	32.14	ppb
Selenium	77-2	10.90	13.17	12.73	12.27	9.80	ppb
Selenium	78-2	1.56	0.96	3.68	2.07	69.08	ppb
Silicon	28-1	29.24	48.23	60.09	45.85	33.94	ppb
Silver	107-1	0.04	0.04	0.04	0.04	7.05	ppb
Silver	109-1	0.03	0.03	0.03	0.03	6.73	ppb
Sodium	23-2	4599.32	4593.66	4599.14	4597.37	0.07	ppb
Strontium	86-1	301.65	309.48	307.60	306.24	1.34	ppb
Strontium	88-1	306.10	308.90	311.44	308.81	0.86	ppb
Sulfur	34-1	8086.92	7880.53	7898.27	7955.24	1.44	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.12	0.12	0.12	0.12	1.44	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	0.53	ppb
Tin	118-1	0.43	0.63	0.45	0.50	21.40	ppb
Titanium	47-1	50.90	46.68	58.21	51.93	11.24	ppb
Uranium	238-1	1.21	1.23	1.21	1.21	0.86	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	14.79	14.66	14.35	14.60	1.55	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	66.02	65.61	65.11	65.58	0.70	ppb
Zirconium	90-1	5.29	4.97	4.93	5.07	3.93	ppb
Zirconium	91-1	4.80	4.85	5.10	4.92	3.24	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52855.74	53325.48	53396.72	53192.65	0.55	ppb
Antimony	121-1	474.16	478.09	475.43	475.89	0.42	ppb
Arsenic	75-2	32.11	31.82	31.77	31.90	0.58	ppb
Barium	135-1	2262.93	2268.60	2226.24	2252.59	1.02	ppb
Barium	137-1	2279.87	2314.29	2237.17	2277.11	1.70	ppb
Beryllium	9-1	490.76	490.56	499.34	493.56	1.02	ppb
Bismuth	209-1				98		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	461.84	460.40	455.45	459.23	0.73	ppb
Cadmium	106-1	481.17	488.71	481.36	483.75	0.89	ppb
Cadmium	111-1	477.37	487.04	477.06	480.49	1.18	ppb
Calcium	43-1	49041.31	49007.30	49220.96	49089.86	0.23	ppb
Calcium	44-1	49180.65	49598.12	49724.53	49501.10	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	528.35	526.80	538.41	531.19	1.19	ppb
Cobalt	59-2	480.97	485.47	502.85	489.76	2.36	ppb
Copper	63-2	4681.85	4659.89	4751.17	4697.63	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				106		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	119652.54	121002.72	122411.05	121022.10	1.14	ppb
Iron	56-2	118455.18	118497.22	119919.50	118957.30	0.70	ppb
Iron	57-2	119303.09	118105.31	120259.83	119222.74	0.91	ppb
Krypton	83-1						cps
Lead	206-1	2427.36	2474.00	2443.30	2448.22	0.97	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2458.30	2521.50	2441.51	2473.77	1.71	ppb
Lead	208-1	2455.26	2484.91	2440.88	2460.35	0.91	ppb
Lithium	6-1				95		%
Magnesium	24-2	59571.14	59836.53	60795.30	60067.65	1.07	ppb
Manganese	55-2	5450.47	5498.17	5455.12	5467.92	0.48	ppb
Molybdenum	94-1	2128.00	2118.26	2107.43	2117.89	0.49	ppb
Molybdenum	95-1	1544.96	1526.00	1527.21	1532.72	0.69	ppb
Molybdenum	96-1	1596.96	1596.79	1591.32	1595.02	0.20	ppb
Molybdenum	97-1	1542.55	1531.69	1521.83	1532.03	0.68	ppb
Molybdenum	98-1	1567.86	1552.72	1530.76	1550.45	1.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	478.73	486.84	491.82	485.80	1.36	ppb
Phosphorus	31-2	677.68	623.44	690.02	663.71	5.34	ppb
Potassium	39-2	27987.76	28486.21	28512.33	28328.77	1.04	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	441.64	439.35	430.19	437.06	1.39	ppb
Selenium	77-2	535.45	495.57	534.97	522.00	4.38	ppb
Selenium	78-2	469.63	453.08	454.97	459.23	1.97	ppb
Silicon	28-1	274.59	333.23	338.74	315.52	11.27	ppb
Silver	107-1	82.91	83.79	82.98	83.23	0.59	ppb
Silver	109-1	82.95	83.32	80.38	82.22	1.94	ppb
Sodium	23-2	66222.90	67671.64	67489.08	67127.87	1.18	ppb
Strontium	86-1	14304.99	14346.78	14396.35	14349.37	0.32	ppb
Strontium	88-1	14309.50	14230.40	14056.06	14198.65	0.91	ppb
Sulfur	34-1	84384.47	83278.79	84047.19	83903.48	0.68	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	463.47	476.79	470.66	470.31	1.42	ppb
Thallium	205-1	462.19	479.29	469.50	470.33	1.82	ppb
Tin	118-1	429.45	428.83	430.87	429.72	0.24	ppb
Titanium	47-1	424.15	478.69	416.78	439.87	7.69	ppb
Uranium	238-1	479.35	485.31	480.35	481.67	0.66	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	577.73	572.04	580.72	576.83	0.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				108		%
Zinc	66-2	4937.88	5012.73	4979.83	4976.81	0.75	ppb
Zirconium	90-1	461.59	455.77	459.38	458.92	0.64	ppb
Zirconium	91-1	472.26	459.07	458.63	463.32	1.67	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52463.31	52574.96	52373.46	52470.58	0.19	ppb
Antimony	121-1	477.74	483.79	488.73	483.42	1.14	ppb
Arsenic	75-2	29.66	31.32	30.31	30.43	2.76	ppb
Barium	135-1	2186.69	2258.89	2278.45	2241.34	2.16	ppb
Barium	137-1	2230.51	2263.03	2319.04	2270.86	1.97	ppb
Beryllium	9-1	487.46	495.15	507.30	496.64	2.01	ppb
Bismuth	209-1				99		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	446.12	466.38	467.62	460.04	2.62	ppb
Cadmium	106-1	479.84	496.48	505.48	493.93	2.63	ppb
Cadmium	111-1	480.60	490.44	499.52	490.18	1.93	ppb
Calcium	43-1	49838.48	50992.11	49626.10	50152.23	1.47	ppb
Calcium	44-1	49734.27	50239.32	49534.14	49835.91	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	535.68	532.52	545.96	538.05	1.31	ppb
Cobalt	59-2	498.16	499.20	494.32	497.22	0.52	ppb
Copper	63-2	4839.23	4824.14	4772.01	4811.79	0.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	131876.52	129755.52	132243.85	131291.96	1.02	ppb
Iron	56-2	130828.58	129152.44	130923.30	130301.44	0.76	ppb
Iron	57-2	129294.31	131427.80	128818.26	129846.79	1.07	ppb
Krypton	83-1						cps
Lead	206-1	2463.55	2472.83	2458.23	2464.87	0.30	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2474.69	2464.13	2490.31	2476.38	0.53	ppb
Lead	208-1	2462.74	2466.70	2486.85	2472.10	0.52	ppb
Lithium	6-1				95		%
Magnesium	24-2	60728.64	60385.12	60444.73	60519.50	0.30	ppb
Manganese	55-2	5592.15	5505.09	5563.81	5553.69	0.80	ppb
Molybdenum	94-1	2118.65	2143.44	2133.07	2131.72	0.58	ppb
Molybdenum	95-1	1535.64	1599.29	1555.04	1563.32	2.09	ppb
Molybdenum	96-1	1597.14	1645.14	1604.44	1615.57	1.60	ppb
Molybdenum	97-1	1543.36	1580.59	1543.60	1555.85	1.38	ppb
Molybdenum	98-1	1554.77	1576.06	1568.12	1566.31	0.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	493.14	496.72	494.11	494.65	0.37	ppb
Phosphorus	31-2	658.15	651.70	706.50	672.12	4.46	ppb
Potassium	39-2	28497.71	28204.13	28592.91	28431.58	0.71	ppb
Rhodium	103-1				93		%
Rhodium	103-2				93		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	440.64	444.85	446.04	443.84	0.64	ppb
Selenium	77-2	518.91	523.11	562.63	534.88	4.51	ppb
Selenium	78-2	456.21	457.39	452.81	455.47	0.52	ppb
Silicon	28-1	309.05	298.12	407.89	338.35	17.87	ppb
Silver	107-1	83.36	85.71	86.26	85.11	1.81	ppb
Silver	109-1	83.24	86.55	84.19	84.66	2.01	ppb
Sodium	23-2	66084.28	64919.13	65865.57	65622.99	0.94	ppb
Strontium	86-1	15065.34	14380.32	14610.72	14685.46	2.37	ppb
Strontium	88-1	14375.08	14563.86	14323.67	14420.87	0.88	ppb
Sulfur	34-1	92851.50	94039.59	91306.52	92732.54	1.48	ppb
Terbium	159-1				103		%
Terbium	159-2				97		%
Thallium	203-1	463.41	481.57	476.12	473.70	1.97	ppb
Thallium	205-1	461.75	480.47	473.57	471.93	2.01	ppb
Tin	118-1	426.56	434.78	440.48	433.94	1.61	ppb
Titanium	47-1	410.39	428.18	433.65	424.08	2.87	ppb
Uranium	238-1	475.93	476.95	482.00	478.29	0.68	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	597.85	596.75	593.58	596.06	0.37	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				110		%
Zinc	66-2	5064.56	5044.96	5004.86	5038.13	0.60	ppb
Zirconium	90-1	466.66	473.70	473.12	471.16	0.83	ppb
Zirconium	91-1	468.38	486.50	476.63	477.17	1.90	ppb

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On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52447.25	52249.00	53521.27	52739.17	1.30	ppb
Antimony	121-1	475.33	478.73	482.72	478.93	0.77	ppb
Arsenic	75-2	29.51	30.72	30.78	30.34	2.35	ppb
Barium	135-1	2251.97	2252.54	2251.90	2252.14	0.02	ppb
Barium	137-1	2260.75	2261.74	2287.00	2269.83	0.66	ppb
Beryllium	9-1	500.22	495.93	509.67	501.94	1.40	ppb
Bismuth	209-1				98		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	455.23	463.57	458.57	459.12	0.91	ppb
Cadmium	106-1	487.43	483.62	485.93	485.66	0.40	ppb
Cadmium	111-1	475.17	483.07	484.25	480.83	1.03	ppb
Calcium	43-1	49054.69	49610.61	49359.47	49341.59	0.56	ppb
Calcium	44-1	48913.47	49996.81	49057.45	49322.58	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.20	529.61	537.26	530.36	1.24	ppb
Cobalt	59-2	499.68	494.76	506.64	500.36	1.19	ppb
Copper	63-2	4763.42	4777.83	4776.07	4772.44	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	129106.81	126948.89	128696.41	128250.70	0.89	ppb
Iron	56-2	128541.23	126153.39	130213.50	128302.71	1.59	ppb
Iron	57-2	129155.62	127881.26	132423.01	129819.96	1.80	ppb
Krypton	83-1						cps
Lead	206-1	2415.96	2469.80	2371.01	2418.92	2.04	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2445.26	2524.66	2437.30	2469.07	1.96	ppb
Lead	208-1	2445.58	2487.93	2438.06	2457.19	1.09	ppb
Lithium	6-1				94		%
Magnesium	24-2	59666.51	60651.97	60582.36	60300.28	0.91	ppb
Manganese	55-2	5453.54	5436.19	5523.73	5471.15	0.85	ppb
Molybdenum	94-1	2115.40	2129.20	2141.52	2128.71	0.61	ppb
Molybdenum	95-1	1551.74	1551.14	1554.11	1552.33	0.10	ppb
Molybdenum	96-1	1605.60	1616.90	1611.05	1611.18	0.35	ppb
Molybdenum	97-1	1537.57	1558.35	1554.95	1550.29	0.72	ppb
Molybdenum	98-1	1525.10	1562.91	1545.98	1544.66	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	488.14	489.65	491.07	489.62	0.30	ppb
Phosphorus	31-2	646.60	695.53	651.39	664.51	4.06	ppb
Potassium	39-2	28371.48	28473.56	28758.23	28534.42	0.70	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	442.48	444.70	440.02	442.40	0.53	ppb
Selenium	77-2	500.17	513.29	508.03	507.16	1.30	ppb
Selenium	78-2	454.40	454.71	468.55	459.22	1.76	ppb
Silicon	28-1	255.67	279.59	330.75	288.67	13.29	ppb
Silver	107-1	84.46	84.53	84.67	84.55	0.12	ppb
Silver	109-1	82.49	82.94	84.14	83.19	1.02	ppb
Sodium	23-2	65014.37	65103.07	65823.42	65313.62	0.68	ppb
Strontium	86-1	14242.69	14603.27	14456.26	14434.07	1.26	ppb
Strontium	88-1	14268.99	14430.42	14393.05	14364.15	0.59	ppb
Sulfur	34-1	93533.03	92954.27	91568.82	92685.38	1.09	ppb
Terbium	159-1				104		%
Terbium	159-2				98		%
Thallium	203-1	465.54	483.31	469.73	472.86	1.96	ppb
Thallium	205-1	467.94	479.59	470.62	472.71	1.29	ppb
Tin	118-1	435.45	426.78	427.61	429.95	1.11	ppb
Titanium	47-1	440.79	435.38	432.73	436.30	0.94	ppb
Uranium	238-1	473.30	482.77	480.95	479.01	1.05	ppb

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	590.76	580.96	593.62	588.45	1.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				110		%
Zinc	66-2	5009.02	5068.52	5147.22	5074.92	1.37	ppb
Zirconium	90-1	471.90	467.78	477.48	472.39	1.03	ppb
Zirconium	91-1	476.85	473.16	479.49	476.50	0.67	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	29682.08	30018.20	29877.73	29859.34	0.57	ppb
Antimony	121-1	0.08	0.08	0.07	0.07	3.62	ppb
Arsenic	75-2	31.16	31.43	30.94	31.18	0.80	ppb
Barium	135-1	70.22	72.84	71.58	71.55	1.84	ppb
Barium	137-1	70.99	73.30	72.17	72.15	1.60	ppb
Beryllium	9-1	2.17	2.27	2.20	2.21	2.31	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	4.18	4.09	4.39	4.22	3.65	ppb
Cadmium	106-1	6.75	6.90	6.69	6.78	1.61	ppb
Cadmium	111-1	0.79	0.82	0.79	0.80	2.55	ppb
Calcium	43-1	3060.51	3118.12	3130.51	3103.05	1.20	ppb
Calcium	44-1	3137.36	3155.65	3113.42	3135.48	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	61.75	62.70	63.13	62.53	1.13	ppb
Cobalt	59-2	16.93	17.08	17.44	17.15	1.54	ppb
Copper	63-2	38.78	39.02	39.54	39.11	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				102		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	63063.83	64953.97	65248.21	64422.00	1.84	ppb
Iron	56-2	64188.19	64745.02	64594.16	64509.12	0.45	ppb
Iron	57-2	63157.93	64536.74	64989.73	64228.13	1.49	ppb
Krypton	83-1						cps
Lead	206-1	35.02	35.19	35.02	35.08	0.29	ppb

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	33.67	33.95	34.02	33.88	0.54	ppb
Lead	208-1	34.35	34.55	34.25	34.38	0.45	ppb
Lithium	6-1				96		%
Magnesium	24-2	9640.87	9865.17	9929.84	9811.96	1.55	ppb
Manganese	55-2	452.38	454.66	454.71	453.92	0.29	ppb
Molybdenum	94-1	57.54	57.53	58.64	57.90	1.10	ppb
Molybdenum	95-1	9.18	9.18	9.39	9.25	1.29	ppb
Molybdenum	96-1	14.47	14.18	14.56	14.40	1.38	ppb
Molybdenum	97-1	9.17	9.13	9.38	9.23	1.45	ppb
Molybdenum	98-1	9.17	9.24	9.29	9.23	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	38.53	38.92	38.93	38.79	0.59	ppb
Phosphorus	31-2	417.26	440.88	451.46	436.53	4.01	ppb
Potassium	39-2	5269.11	5239.47	5254.43	5254.34	0.28	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	2.26	2.28	1.54	2.02	20.86	ppb
Selenium	77-2	54.70	51.51	45.93	50.71	8.75	ppb
Selenium	78-2	9.96	7.81	7.63	8.47	15.31	ppb
Silicon	28-1	217.26	207.55	265.36	230.06	13.46	ppb
Silver	107-1	0.18	0.18	0.16	0.17	7.83	ppb
Silver	109-1	0.13	0.13	0.12	0.13	3.35	ppb
Sodium	23-2	21854.68	22224.69	21922.40	22000.59	0.90	ppb
Strontium	86-1	1208.78	1218.10	1237.96	1221.62	1.22	ppb
Strontium	88-1	1265.27	1279.61	1285.50	1276.79	0.81	ppb
Sulfur	34-1	37672.45	38797.06	38117.93	38195.82	1.48	ppb
Terbium	159-1				104		%
Terbium	159-2				99		%
Thallium	203-1	0.68	0.67	0.65	0.67	2.48	ppb
Thallium	205-1	0.69	0.68	0.66	0.68	2.49	ppb
Tin	118-1	3.65	3.55	3.64	3.61	1.58	ppb
Titanium	47-1	228.97	227.42	229.11	228.50	0.41	ppb
Uranium	238-1	5.18	5.26	5.26	5.23	0.95	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	92.17	93.20	93.70	93.02	0.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				107		%
Zinc	66-2	155.46	157.27	157.51	156.75	0.72	ppb
Zirconium	90-1	27.15	27.01	27.32	27.16	0.57	ppb
Zirconium	91-1	27.28	28.50	28.21	28.00	2.28	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22669.55	23795.12	23556.42	23340.36	2.54	ppb
Antimony	121-1	0.05	0.06	0.05	0.06	6.69	ppb
Arsenic	75-2	18.38	18.82	18.83	18.67	1.37	ppb
Barium	135-1	86.83	89.76	88.57	88.38	1.67	ppb
Barium	137-1	88.58	90.54	90.17	89.76	1.16	ppb
Beryllium	9-1	1.61	1.58	1.55	1.58	1.96	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	2.48	3.06	2.65	2.73	11.00	ppb
Cadmium	106-1	4.01	3.83	3.61	3.82	5.30	ppb
Cadmium	111-1	0.51	0.47	0.48	0.49	3.68	ppb
Calcium	43-1	2588.83	2611.52	2655.18	2618.51	1.29	ppb
Calcium	44-1	2663.52	2599.71	2652.10	2638.44	1.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	44.83	45.66	44.99	45.16	0.98	ppb
Cobalt	59-2	18.91	19.34	19.07	19.11	1.14	ppb
Copper	63-2	28.89	29.89	29.15	29.31	1.76	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				95		%
Iron	54-2	45969.77	45410.96	45499.47	45626.73	0.66	ppb
Iron	56-2	45556.32	45872.12	45339.37	45589.27	0.59	ppb
Iron	57-2	45690.13	46271.74	44862.12	45608.00	1.55	ppb
Krypton	83-1						cps
Lead	206-1	31.19	31.10	31.08	31.12	0.19	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	30.04	30.04	30.36	30.14	0.61	ppb
Lead	208-1	30.57	30.62	30.73	30.64	0.27	ppb
Lithium	6-1				94		%
Magnesium	24-2	8963.47	8967.19	9074.42	9001.69	0.70	ppb
Manganese	55-2	382.14	384.32	385.89	384.12	0.49	ppb
Molybdenum	94-1	40.65	40.45	40.74	40.61	0.36	ppb
Molybdenum	95-1	6.72	6.77	6.67	6.72	0.72	ppb
Molybdenum	96-1	10.40	10.58	10.56	10.51	0.95	ppb
Molybdenum	97-1	6.73	6.83	6.74	6.77	0.81	ppb
Molybdenum	98-1	6.78	6.78	6.78	6.78	0.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	37.96	38.77	37.36	38.03	1.86	ppb
Phosphorus	31-2	307.09	317.94	286.54	303.86	5.25	ppb
Potassium	39-2	4033.84	4039.99	4004.62	4026.15	0.47	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	1.57	1.78	1.75	1.70	6.82	ppb
Selenium	77-2	34.49	40.17	39.67	38.11	8.26	ppb
Selenium	78-2	6.61	7.20	7.00	6.94	4.38	ppb
Silicon	28-1	249.81	330.44	234.44	271.56	18.99	ppb
Silver	107-1	0.11	0.12	0.12	0.11	3.85	ppb
Silver	109-1	0.09	0.09	0.09	0.09	3.24	ppb
Sodium	23-2	23700.19	24075.47	24039.95	23938.54	0.87	ppb
Strontium	86-1	1069.76	1072.97	1050.23	1064.32	1.16	ppb
Strontium	88-1	1109.55	1134.32	1118.51	1120.79	1.12	ppb
Sulfur	34-1	24466.94	24797.50	24855.83	24706.76	0.85	ppb
Terbium	159-1				105		%
Terbium	159-2				98		%
Thallium	203-1	0.42	0.41	0.42	0.42	2.13	ppb
Thallium	205-1	0.43	0.42	0.42	0.42	1.03	ppb
Tin	118-1	4.98	5.12	5.04	5.05	1.42	ppb
Titanium	47-1	196.08	188.98	204.07	196.38	3.84	ppb
Uranium	238-1	2.52	2.56	2.57	2.55	1.08	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.12	51.57	51.29	51.33	0.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				104		%
Zinc	66-2	152.53	156.96	153.11	154.20	1.56	ppb
Zirconium	90-1	18.90	19.12	18.92	18.98	0.64	ppb
Zirconium	91-1	19.07	19.98	20.09	19.71	2.82	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50594.00	50789.75	49484.31	50289.35	1.40	ppb
Antimony	121-1	503.49	507.68	503.28	504.82	0.49	ppb
Arsenic	75-2	491.84	499.06	500.11	497.01	0.91	ppb
Barium	135-1	2589.62	2555.02	2540.54	2561.73	0.98	ppb
Barium	137-1	2599.34	2575.97	2529.24	2568.18	1.39	ppb
Beryllium	9-1	549.82	534.43	552.20	545.48	1.77	ppb
Bismuth	209-1				88		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	496.02	503.48	497.00	498.83	0.81	ppb
Cadmium	106-1	497.73	496.89	499.60	498.07	0.28	ppb
Cadmium	111-1	505.26	506.88	497.51	503.22	0.99	ppb
Calcium	43-1	240115.09	241252.14	238117.12	239828.12	0.66	ppb
Calcium	44-1	241960.47	237628.25	238273.93	239287.55	0.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	534.33	546.44	531.50	537.42	1.48	ppb
Cobalt	59-2	518.62	530.18	513.46	520.75	1.64	ppb
Copper	63-2	5005.56	5110.49	4970.95	5029.00	1.44	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				93		%
Indium	115-1				86		%
Indium	115-2				78		%
Iron	54-2	132649.97	134099.28	129966.36	132238.54	1.59	ppb
Iron	56-2	129561.59	133974.44	130941.15	131492.39	1.72	ppb
Iron	57-2	130334.10	133703.03	130668.34	131568.49	1.41	ppb
Krypton	83-1						cps
Lead	206-1	2559.50	2548.08	2567.86	2558.48	0.39	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2593.72	2555.42	2597.19	2582.11	0.90	ppb
Lead	208-1	2586.45	2561.63	2608.33	2585.47	0.90	ppb
Lithium	6-1				84		%
Magnesium	24-2	248433.43	249927.49	250333.50	249564.81	0.40	ppb
Manganese	55-2	5276.54	5289.03	5150.76	5238.78	1.46	ppb
Molybdenum	94-1	5173.61	5129.91	5182.50	5162.01	0.55	ppb
Molybdenum	95-1	5106.18	5112.10	5177.52	5131.94	0.77	ppb
Molybdenum	96-1	5062.47	5100.25	5092.34	5085.02	0.39	ppb
Molybdenum	97-1	4996.56	5096.00	5127.48	5073.35	1.35	ppb
Molybdenum	98-1	5091.52	5107.61	5210.82	5136.65	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	472.69	482.44	472.30	475.81	1.21	ppb
Phosphorus	31-2	10255.77	10285.89	10141.18	10227.61	0.75	ppb
Potassium	39-2	135670.42	136146.10	133582.20	135132.91	1.01	ppb
Rhodium	103-1				83		%
Rhodium	103-2				83		%
Scandium	45-1				90		%
Scandium	45-2				91		%
Selenium	82-1	490.51	501.36	492.26	494.71	1.18	ppb
Selenium	77-2	488.67	481.77	487.24	485.89	0.75	ppb
Selenium	78-2	482.69	502.04	491.97	492.23	1.97	ppb
Silicon	28-1	515.92	508.85	514.77	513.18	0.74	ppb
Silver	107-1	492.08	494.61	494.09	493.60	0.27	ppb
Silver	109-1	489.98	496.05	489.32	491.78	0.75	ppb
Sodium	23-2	233284.50	235154.79	232750.73	233730.01	0.54	ppb
Strontium	86-1	12813.65	12887.36	12867.27	12856.09	0.30	ppb
Strontium	88-1	12671.64	12898.88	12807.92	12792.81	0.89	ppb
Sulfur	34-1	11020.72	10487.62	10776.39	10761.58	2.48	ppb
Terbium	159-1				95		%
Terbium	159-2				90		%
Thallium	203-1	518.60	512.27	515.30	515.39	0.61	ppb
Thallium	205-1	522.48	509.63	516.03	516.05	1.24	ppb
Tin	118-1	497.30	517.98	500.66	505.32	2.20	ppb
Titanium	47-1	5245.03	5214.52	5163.16	5207.57	0.79	ppb
Uranium	238-1	528.44	524.48	535.91	529.61	1.10	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	529.75	543.11	534.82	535.89	1.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				92		%
Zinc	66-2	5112.45	5210.66	5069.80	5130.97	1.41	ppb
Zirconium	90-1	519.19	516.45	520.89	518.84	0.43	ppb
Zirconium	91-1	516.60	518.59	524.48	519.89	0.79	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.00	0.70	0.30	0.33	106.28	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.56	ppb
Arsenic	75-2	-0.01	0.01	-0.01	0.00		ppb
Barium	135-1	0.02	0.01	0.02	0.02	30.08	ppb
Barium	137-1	0.01	0.01	0.01	0.01	13.88	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	8.80	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.03	0.00	-0.02		ppb
Cadmium	106-1	-1.36	-1.42	-1.27	-1.35		ppb
Cadmium	111-1	-0.10	-0.11	-0.10	-0.10		ppb
Calcium	43-1	11.96	9.76	10.54	10.75	10.34	ppb
Calcium	44-1	10.13	9.99	9.63	9.92	2.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.11	0.08	0.07	0.09	24.85	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.03	0.04	0.07	0.05	41.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	0.72	0.70	0.13	0.52	65.17	ppb
Iron	56-2	2.26	3.04	2.39	2.56	16.27	ppb
Iron	57-2	2.35	2.74	1.76	2.28	21.46	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.03	0.04	6.38	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.04	0.03	0.04	19.26	ppb
Lead	208-1	0.04	0.04	0.03	0.04	6.87	ppb
Lithium	6-1				93		%
Magnesium	24-2	0.28	-0.05	0.18	0.14	123.67	ppb
Manganese	55-2	-1.50	-1.45	-1.51	-1.48		ppb
Molybdenum	94-1	0.04	0.05	0.05	0.05	17.08	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.02	9.47	ppb
Molybdenum	96-1	0.02	0.01	0.02	0.02	27.15	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	24.60	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	5.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.00	0.01	0.01	119.04	ppb
Phosphorus	31-2	-111.89	-118.13	-111.78	-113.93		ppb
Potassium	39-2	10.31	9.03	10.11	9.82	6.99	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.05	-0.01	-0.14	-0.03		ppb
Selenium	77-2	0.00	0.53	0.00	0.18	173.21	ppb
Selenium	78-2	0.01	-0.46	-0.14	-0.20		ppb
Silicon	28-1	-0.79	-0.69	-0.83	-0.77		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.21	ppb
Silver	109-1	0.01	0.01	0.01	0.01	26.68	ppb
Sodium	23-2	25.88	25.99	25.72	25.86	0.53	ppb
Strontium	86-1	0.20	0.19	-0.05	0.11	126.44	ppb
Strontium	88-1	0.07	0.10	0.11	0.09	26.34	ppb
Sulfur	34-1	-142.99	-152.97	-222.97	-172.98		ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.02	0.01	0.01	0.01	21.45	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	10.06	ppb
Tin	118-1	0.05	0.05	0.07	0.06	14.70	ppb
Titanium	47-1	0.02	0.02	0.01	0.01	45.96	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.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				101		%
Yttrium	89-2				98		%
Zinc	66-2	0.65	0.61	0.61	0.63	3.30	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	27.35	ppb
Zirconium	91-1	0.02	0.01	0.01	0.02	20.68	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	167	163	140	157	9.28	cps
Antimony	121-1	63	47	67	59	18.19	cps
Arsenic	75-2	13	3	3	7	86.65	cps
Barium	135-1	93	77	73	81	13.21	cps
Barium	137-1	187	173	203	188	8.00	cps
Beryllium	9-1	100	119	132	117	13.42	cps
Bismuth	209-1	11798573	11714570	11714629	11742591	0.41	cps
Bismuth	209-2	4917420	4906598	4927118	4917045	0.21	cps
Bromine	81-1	32307	32220	32284	32271	0.14	cps
Cadmium	108-1	53	20	33	36	47.19	cps
Cadmium	106-1	10281	10247	10040	10189	1.28	cps
Cadmium	111-1	7179	7186	7038	7134	1.17	cps
Calcium	43-1	907	857	880	881	2.84	cps
Calcium	44-1	29086	29677	28552	29105	1.93	cps
Carbon	12-1	3817232	3899611	3898009	3871617	1.22	cps
Carbon	12-2	29503	30328	29440	29757	1.67	cps
Chlorine	35-1	109507	109628	108794	109310	0.41	cps
Chlorine	35-2	457	377	453	429	10.55	cps
Chromium	52-2	913	877	970	920	5.11	cps
Cobalt	59-2	77	77	100	84	15.95	cps
Copper	63-2	1693	1573	1627	1631	3.69	cps
Dysprosium	156-1	27	13	13	18	43.33	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	123	127	133	128	3.98	cps
Erbium	164-2	30	53	37	40	30.04	cps
Gadolinium	160-1	157	117	157	143	16.11	cps
Gadolinium	160-2	23	23	30	26	15.07	cps
Holmium	165-1	19323050	19224607	18844393	19130683	1.32	cps
Holmium	165-2	6836065	6882854	6785102	6834674	0.72	cps
Indium	115-1	17068597	16897091	16971875	16979187	0.51	cps
Indium	115-2	1821660	1837977	1795750	1818463	1.17	cps
Iron	54-2	1672	513	440	875	78.95	cps
Iron	56-2	5134	4958	4878	4990	2.63	cps
Iron	57-2	170	150	90	137	30.46	cps
Krypton	83-1	253	277	253	261	5.16	cps
Lead	206-1	620	650	690	653	5.38	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	490	617	530	546	11.87	cps
Lead	208-1	2500	2677	2517	2565	3.80	cps
Lithium	6-1	5204572	5092684	5087081	5128113	1.29	cps
Magnesium	24-2	350	460	417	409	13.55	cps
Manganese	55-2	4424	4444	4537	4469	1.35	cps
Molybdenum	94-1	507	480	470	486	3.90	cps
Molybdenum	95-1	180	190	180	183	3.15	cps
Molybdenum	96-1	343	297	250	297	15.73	cps
Molybdenum	97-1	93	107	133	111	18.33	cps
Molybdenum	98-1	317	313	290	307	4.74	cps
Neodymium	150-1	17	13	10	13	25.01	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	310	300	247	286	11.92	cps
Phosphorus	31-2	60	87	57	68	24.26	cps
Potassium	39-2	13867	13830	13460	13719	1.64	cps
Rhodium	103-1	16040783	15743306	15850813	15878301	0.95	cps
Rhodium	103-2	6213338	6213373	6144062	6190258	0.65	cps
Scandium	45-1	10572993	10701341	10511437	10595257	0.91	cps
Scandium	45-2	202965	202280	200766	202004	0.56	cps
Selenium	82-1	-7	3	37	11	204.18	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	30	17	13	20	44.10	cps
Silicon	28-1	591099	569334	571724	577386	2.07	cps
Silver	107-1	200	183	193	192	4.36	cps
Silver	109-1	60	73	77	70	12.60	cps
Sodium	23-2	28621	28608	28615	28615	0.02	cps
Strontium	86-1	477	510	513	500	4.06	cps
Strontium	88-1	457	513	417	462	10.51	cps
Sulfur	34-1	566897	569997	573349	570081	0.57	cps
Terbium	159-1	20367021	19970954	20203049	20180342	0.99	cps
Terbium	159-2	6743227	6834853	6764888	6780990	0.71	cps
Thallium	203-1	243	273	223	247	10.20	cps
Thallium	205-1	580	527	627	578	8.66	cps
Tin	118-1	3474	3094	3130	3233	6.49	cps
Titanium	47-1	197	210	187	198	5.92	cps
Uranium	238-1	250	200	250	233	12.37	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 13:53:59	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	23	13	24	47.91	cps
Ytterbium	172-1	113	107	123	114	7.33	cps
Ytterbium	172-2	53	100	20	58	69.55	cps
Ytterbium	176-1	2657	2630	2594	2627	1.21	cps
Ytterbium	176-2	930	910	847	896	4.86	cps
Yttrium	89-1	29823209	30082003	30030146	29978453	0.46	cps
Yttrium	89-2	2269124	2275258	2246743	2263709	0.66	cps
Zinc	66-2	337	380	363	360	6.07	cps
Zirconium	90-1	1470	1433	1323	1409	5.42	cps
Zirconium	91-1	233	287	217	246	14.89	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1723	1750	1740	1738	0.78	cps
Antimony	121-1	48345	48579	49506	48810	1.26	cps
Arsenic	75-2	573	523	560	552	4.69	cps
Barium	135-1	56701	56059	57113	56625	0.94	cps
Barium	137-1	97108	98783	97857	97916	0.86	cps
Beryllium	9-1	6191	6259	6399	6283	1.69	cps
Bismuth	209-1	11870517	11659298	11562494	11697436	1.35	cps
Bismuth	209-2	4870428	4816300	4820873	4835867	0.62	cps
Bromine	81-1	31432	32007	31816	31752	0.92	cps
Cadmium	108-1	430	450	460	447	3.42	cps
Cadmium	106-1	10618	10507	11025	10716	2.54	cps
Cadmium	111-1	12296	12218	12976	12497	3.34	cps
Calcium	43-1	37175	37516	38608	37766	1.98	cps
Calcium	44-1	626120	629204	632399	629241	0.50	cps
Carbon	12-1	3775538	3905228	3876394	3852387	1.77	cps
Carbon	12-2	29406	30024	29513	29648	1.11	cps
Chlorine	35-1	110907	110598	109114	110206	0.87	cps
Chlorine	35-2	403	410	370	394	5.43	cps
Chromium	52-2	10481	10360	10534	10458	0.85	cps
Cobalt	59-2	9960	9710	9760	9810	1.35	cps
Copper	63-2	16977	16436	16693	16702	1.62	cps
Dysprosium	156-1	23	43	40	36	30.14	cps
Dysprosium	156-2	3	10	13	9	57.30	cps
Erbium	164-1	167	190	157	171	10.00	cps
Erbium	164-2	43	37	40	40	8.32	cps
Gadolinium	160-1	123	153	140	139	10.82	cps
Gadolinium	160-2	33	57	37	42	29.89	cps
Holmium	165-1	19377726	19203578	19768868	19450058	1.49	cps
Holmium	165-2	7008165	6926225	6878735	6937708	0.94	cps
Indium	115-1	16773114	16726423	16660366	16719968	0.34	cps
Indium	115-2	1807490	1801672	1819974	1809712	0.52	cps
Iron	54-2	11031	10804	11074	10970	1.32	cps
Iron	56-2	191211	194414	187890	191172	1.71	cps
Iron	57-2	4774	5191	4961	4975	4.20	cps
Krypton	83-1	193	243	237	224	12.10	cps
Lead	206-1	14959	14765	14922	14882	0.69	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12906	13337	13207	13150	1.68	cps
Lead	208-1	59340	59995	59888	59741	0.59	cps
Lithium	6-1	5309418	5092747	5225606	5209257	2.10	cps
Magnesium	24-2	145108	144290	144410	144603	0.31	cps
Manganese	55-2	6715	6635	6648	6666	0.64	cps
Molybdenum	94-1	50625	50174	51535	50778	1.37	cps
Molybdenum	95-1	60882	59152	60561	60198	1.53	cps
Molybdenum	96-1	67279	67640	65858	66926	1.41	cps
Molybdenum	97-1	37567	37627	37748	37648	0.24	cps
Molybdenum	98-1	96328	97167	96318	96604	0.50	cps
Neodymium	150-1	40	20	23	28	38.58	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	2547	2827	2557	2644	6.01	cps
Phosphorus	31-2	980	1023	987	997	2.34	cps
Potassium	39-2	103175	101658	100362	101732	1.38	cps
Rhodium	103-1	15896329	15682705	15394178	15657737	1.61	cps
Rhodium	103-2	6299960	6156857	6128870	6195229	1.48	cps
Scandium	45-1	10506188	10853744	10485768	10615233	1.95	cps
Scandium	45-2	205316	201003	205883	204067	1.31	cps
Selenium	82-1	1990	1934	1787	1904	5.51	cps
Selenium	77-2	37	40	43	40	8.32	cps
Selenium	78-2	113	103	140	119	15.94	cps
Silicon	28-1	670125	675173	686008	677102	1.20	cps
Silver	107-1	32000	31773	33060	32278	2.13	cps
Silver	109-1	29869	31185	29973	30342	2.41	cps
Sodium	23-2	306134	305058	302729	304641	0.57	cps
Strontium	86-1	8313	7926	8049	8096	2.44	cps
Strontium	88-1	67944	68507	68219	68223	0.41	cps
Sulfur	34-1	601970	601885	603068	602308	0.11	cps
Terbium	159-1	20056466	20109486	20047944	20071299	0.17	cps
Terbium	159-2	6782425	6817006	6797681	6799037	0.25	cps
Thallium	203-1	20763	20693	21061	20839	0.94	cps
Thallium	205-1	49772	50929	49926	50209	1.25	cps
Tin	118-1	100005	101066	101425	100832	0.73	cps
Titanium	47-1	17411	17931	17878	17740	1.61	cps
Uranium	238-1	62168	63504	62385	62686	1.14	cps

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On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:00:39	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18659	18332	18525	18505	0.89	cps
Ytterbium	172-1	110	117	163	130	22.36	cps
Ytterbium	172-2	57	47	60	54	12.74	cps
Ytterbium	176-1	2794	2574	2807	2725	4.81	cps
Ytterbium	176-2	783	907	730	807	11.23	cps
Yttrium	89-1	30210372	30064340	30408100	30227604	0.57	cps
Yttrium	89-2	2336044	2264205	2296982	2299077	1.56	cps
Zinc	66-2	4377	4661	4351	4463	3.85	cps
Zirconium	90-1	46052	45504	46434	45997	1.02	cps
Zirconium	91-1	10194	10080	9937	10070	1.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	84283	82818	82791	83297	1.02	cps
Antimony	121-1	1205748	1225118	1229967	1220278	1.05	cps
Arsenic	75-2	24792	24769	25750	25104	2.23	cps
Barium	135-1	1422738	1437537	1433754	1431343	0.54	cps
Barium	137-1	2532423	2587132	2575000	2564851	1.12	cps
Beryllium	9-1	293447	297106	298096	296216	0.83	cps
Bismuth	209-1	11615655	11579810	11720864	11638776	0.63	cps
Bismuth	209-2	4669332	4680055	4803705	4717697	1.58	cps
Bromine	81-1	31068	31332	31412	31270	0.58	cps
Cadmium	108-1	24759	24305	25303	24789	2.02	cps
Cadmium	106-1	44281	46120	45923	45441	2.22	cps
Cadmium	111-1	312854	315683	316040	314859	0.55	cps
Calcium	43-1	382669	383307	386971	384316	0.60	cps
Calcium	44-1	6053404	5995338	6175658	6074800	1.52	cps
Carbon	12-1	3852838	3808659	3866838	3842778	0.79	cps
Carbon	12-2	29944	29787	29827	29853	0.27	cps
Chlorine	35-1	118473	119481	119431	119128	0.48	cps
Chlorine	35-2	473	510	467	483	4.83	cps
Chromium	52-2	246698	246681	243238	245539	0.81	cps
Cobalt	59-2	469812	456794	465411	464006	1.43	cps
Copper	63-2	3815901	3776737	3806362	3799667	0.54	cps
Dysprosium	156-1	70	53	67	63	13.93	cps
Dysprosium	156-2	17	10	17	14	26.66	cps
Erbium	164-1	150	213	160	174	19.52	cps
Erbium	164-2	47	30	57	44	30.31	cps
Gadolinium	160-1	150	127	97	124	21.48	cps
Gadolinium	160-2	33	50	47	43	20.36	cps
Holmium	165-1	19379342	19152117	19381821	19304427	0.68	cps
Holmium	165-2	6764894	6848996	6757007	6790299	0.75	cps
Indium	115-1	16790114	16444034	16370937	16535028	1.35	cps
Indium	115-2	1789270	1739459	1750033	1759587	1.49	cps
Iron	54-2	512507	508974	498182	506554	1.47	cps
Iron	56-2	9204529	9192532	9112647	9169903	0.54	cps
Iron	57-2	230942	231722	233380	232015	0.54	cps
Krypton	83-1	253	247	237	246	3.42	cps
Lead	206-1	4483990	4537815	4513991	4511932	0.60	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3823611	3905113	3898675	3875800	1.17	cps
Lead	208-1	17433784	17624902	17730453	17596380	0.85	cps
Lithium	6-1	5290033	5201422	5283627	5258360	0.94	cps
Magnesium	24-2	1439511	1415547	1416466	1423841	0.95	cps
Manganese	55-2	1042267	1043996	1015497	1033920	1.55	cps
Molybdenum	94-1	4309230	4207487	4295449	4270722	1.29	cps
Molybdenum	95-1	6202768	6003178	6299855	6168600	2.45	cps
Molybdenum	96-1	6711372	6738761	6759685	6736606	0.36	cps
Molybdenum	97-1	3818339	3869338	3841125	3842934	0.66	cps
Molybdenum	98-1	10056909	10038287	10111058	10068751	0.38	cps
Neodymium	150-1	157	127	117	133	15.61	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	129742	128760	128165	128889	0.62	cps
Phosphorus	31-2	3904	4207	3931	4014	4.19	cps
Potassium	39-2	463820	463958	466274	464684	0.30	cps
Rhodium	103-1	15480795	15609591	15333804	15474730	0.89	cps
Rhodium	103-2	6074733	6097137	5978171	6050014	1.04	cps
Scandium	45-1	10369939	10549654	10359385	10426326	1.03	cps
Scandium	45-2	200049	199049	198213	199104	0.46	cps
Selenium	82-1	18636	19344	18886	18955	1.89	cps
Selenium	77-2	327	333	333	331	1.16	cps
Selenium	78-2	1187	1063	983	1078	9.50	cps
Silicon	28-1	8347061	8308277	8091958	8249099	1.67	cps
Silver	107-1	1540473	1633813	1608476	1594254	3.03	cps
Silver	109-1	1449343	1488284	1493214	1476947	1.63	cps
Sodium	23-2	2845168	2839797	2801848	2828938	0.83	cps
Strontium	86-1	387620	398823	391037	392493	1.46	cps
Strontium	88-1	3516085	3466690	3457161	3479979	0.91	cps
Sulfur	34-1	685457	692663	691431	689850	0.56	cps
Terbium	159-1	20404156	19924245	19946584	20091662	1.35	cps
Terbium	159-2	6626820	6632988	6674394	6644734	0.39	cps
Thallium	203-1	1040587	1041706	1061759	1048017	1.14	cps
Thallium	205-1	2546706	2553828	2614668	2571734	1.45	cps
Tin	118-1	991274	1003442	1004123	999613	0.72	cps
Titanium	47-1	1711116	1689213	1683192	1694507	0.87	cps
Uranium	238-1	3264632	3288204	3340250	3297695	1.17	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:03:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	187529	187396	187776	187567	0.10	cps
Ytterbium	172-1	177	123	170	157	18.55	cps
Ytterbium	172-2	60	93	70	74	22.98	cps
Ytterbium	176-1	7459	7782	7966	7736	3.32	cps
Ytterbium	176-2	2590	2324	2460	2458	5.43	cps
Yttrium	89-1	30198730	29834705	29992482	30008639	0.61	cps
Yttrium	89-2	2278371	2220991	2222539	2240634	1.46	cps
Zinc	66-2	401299	395533	397098	397977	0.75	cps
Zirconium	90-1	2193443	2185315	2178269	2185676	0.35	cps
Zirconium	91-1	466205	471776	468828	468936	0.59	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	203749	202264	201298	202437	0.61	cps
Antimony	121-1	3043197	3148947	3083339	3091828	1.73	cps
Arsenic	75-2	60208	60580	60188	60325	0.37	cps
Barium	135-1	3652890	3700396	3639176	3664154	0.88	cps
Barium	137-1	6307095	6317859	6275886	6300280	0.35	cps
Beryllium	9-1	715038	725845	724017	721633	0.80	cps
Bismuth	209-1	11557119	11650014	11653767	11620300	0.47	cps
Bismuth	209-2	4734399	4625356	4625435	4661730	1.35	cps
Bromine	81-1	29334	29471	28930	29245	0.96	cps
Cadmium	108-1	59581	60746	59862	60063	1.01	cps
Cadmium	106-1	94568	96974	96846	96129	1.41	cps
Cadmium	111-1	755673	763239	763421	760778	0.58	cps
Calcium	43-1	919241	938474	924330	927349	1.07	cps
Calcium	44-1	14605032	14666229	14648839	14640033	0.22	cps
Carbon	12-1	3798978	3817719	3777983	3798227	0.52	cps
Carbon	12-2	30084	29540	29212	29612	1.49	cps
Chlorine	35-1	118876	120348	119549	119591	0.62	cps
Chlorine	35-2	427	497	473	466	7.66	cps
Chromium	52-2	585715	585147	586389	585751	0.11	cps
Cobalt	59-2	1108529	1110441	1105393	1108121	0.23	cps
Copper	63-2	8748774	8776888	8762674	8762779	0.16	cps
Dysprosium	156-1	97	143	153	131	23.07	cps
Dysprosium	156-2	20	30	13	21	39.75	cps
Erbium	164-1	203	177	207	196	8.41	cps
Erbium	164-2	80	43	90	71	34.56	cps
Gadolinium	160-1	187	170	163	173	6.93	cps
Gadolinium	160-2	43	50	73	56	28.35	cps
Holmium	165-1	19215682	19293388	19456534	19321868	0.64	cps
Holmium	165-2	6778434	6738535	6661102	6726024	0.89	cps
Indium	115-1	16269825	16316165	16369304	16318432	0.31	cps
Indium	115-2	1718610	1703443	1722143	1714732	0.58	cps
Iron	54-2	1219395	1227911	1218229	1221845	0.43	cps
Iron	56-2	22528145	22365126	22061633	22318301	1.06	cps
Iron	57-2	560992	562308	563249	562183	0.20	cps
Krypton	83-1	273	240	260	258	6.51	cps
Lead	206-1	10736265	10966062	10964174	10888834	1.21	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9261418	9253928	9421038	9312128	1.01	cps
Lead	208-1	43131460	43018020	43216646	43122042	0.23	cps
Lithium	6-1	5266161	5416538	5256531	5313077	1.69	cps
Magnesium	24-2	3473047	3423981	3351248	3416092	1.79	cps
Manganese	55-2	2544532	2553237	2554802	2550857	0.22	cps
Molybdenum	94-1	10387470	10413334	10417928	10406244	0.16	cps
Molybdenum	95-1	15177673	15188895	15221137	15195902	0.15	cps
Molybdenum	96-1	16476559	16468021	16492580	16479053	0.08	cps
Molybdenum	97-1	9303694	9281396	9350532	9311874	0.38	cps
Molybdenum	98-1	24145233	24595998	24135633	24292288	1.08	cps
Neodymium	150-1	283	243	323	283	14.12	cps
Neodymium	150-2	7	30	27	21	59.77	cps
Nickel	60-2	303819	303844	301646	303103	0.42	cps
Phosphorus	31-2	9990	9733	9773	9832	1.41	cps
Potassium	39-2	1115079	1107539	1119191	1113937	0.53	cps
Rhodium	103-1	14967505	15002089	14882191	14950595	0.41	cps
Rhodium	103-2	5879525	5861602	5879262	5873463	0.17	cps
Scandium	45-1	10058018	10361827	10088178	10169341	1.65	cps
Scandium	45-2	196357	194848	197607	196270	0.70	cps
Selenium	82-1	45849	45695	45779	45774	0.17	cps
Selenium	77-2	820	850	793	821	3.45	cps
Selenium	78-2	2647	2884	2700	2744	4.53	cps
Silicon	28-1	19501282	19349734	19278989	19376668	0.59	cps
Silver	107-1	3931918	4013566	4007388	3984291	1.14	cps
Silver	109-1	3750463	3793982	3805363	3783269	0.77	cps
Sodium	23-2	6888154	6722261	6674523	6761646	1.66	cps
Strontium	86-1	947432	955050	956585	953022	0.51	cps
Strontium	88-1	8383452	8372054	8395016	8383508	0.14	cps
Sulfur	34-1	838323	840702	831426	836817	0.58	cps
Terbium	159-1	20119821	20403178	20099277	20207425	0.84	cps
Terbium	159-2	6478258	6456615	6630141	6521671	1.45	cps
Thallium	203-1	2660182	2723491	2728710	2704127	1.41	cps
Thallium	205-1	6230670	6355933	6263372	6283325	1.03	cps
Tin	118-1	2471215	2544050	2504385	2506550	1.45	cps
Titanium	47-1	4054647	4049761	4062422	4055610	0.16	cps
Uranium	238-1	8207252	8302341	8072863	8194152	1.41	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:07:00	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	444636	447004	454547	448729	1.15	cps
Ytterbium	172-1	207	210	247	221	10.04	cps
Ytterbium	172-2	77	70	50	66	21.17	cps
Ytterbium	176-1	14949	15155	15029	15044	0.69	cps
Ytterbium	176-2	4908	5154	5041	5034	2.45	cps
Yttrium	89-1	29387231	29735054	29321495	29481260	0.75	cps
Yttrium	89-2	2180506	2128371	2170565	2159814	1.28	cps
Zinc	66-2	947985	955448	950052	951162	0.41	cps
Zirconium	90-1	5252922	5248885	5213941	5238583	0.41	cps
Zirconium	91-1	1124146	1158603	1152324	1145024	1.60	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	393598	398655	391258	394503	0.96	cps
Antimony	121-1	5943733	6098832	6034077	6025547	1.29	cps
Arsenic	75-2	117787	116456	116772	117005	0.59	cps
Barium	135-1	7059912	7159317	7191800	7137010	0.96	cps
Barium	137-1	11914714	12402370	12221582	12179556	2.02	cps
Beryllium	9-1	1341233	1336433	1359356	1345674	0.90	cps
Bismuth	209-1	11349086	11463892	11391752	11401576	0.51	cps
Bismuth	209-2	4492048	4519427	4548600	4520025	0.63	cps
Bromine	81-1	28212	28172	28422	28269	0.48	cps
Cadmium	108-1	115634	117734	119052	117473	1.47	cps
Cadmium	106-1	174052	177647	176044	175914	1.02	cps
Cadmium	111-1	1457121	1483043	1477316	1472494	0.92	cps
Calcium	43-1	1800926	1796152	1764661	1787246	1.10	cps
Calcium	44-1	28077703	28548175	28790495	28472124	1.27	cps
Carbon	12-1	3672651	3701022	3749546	3707739	1.05	cps
Carbon	12-2	29002	29112	29116	29077	0.22	cps
Chlorine	35-1	123827	125484	124086	124466	0.72	cps
Chlorine	35-2	433	427	463	441	4.43	cps
Chromium	52-2	1131813	1139562	1136861	1136079	0.35	cps
Cobalt	59-2	2221555	2202268	2220762	2214861	0.49	cps
Copper	63-2	17002066	17042916	16890133	16978372	0.47	cps
Dysprosium	156-1	247	197	213	219	11.63	cps
Dysprosium	156-2	37	47	33	39	17.85	cps
Erbium	164-1	253	260	253	256	1.51	cps
Erbium	164-2	100	80	77	86	14.75	cps
Gadolinium	160-1	207	200	203	203	1.64	cps
Gadolinium	160-2	77	53	63	64	18.17	cps
Holmium	165-1	18926912	18820609	19182072	18976531	0.98	cps
Holmium	165-2	6585701	6598982	6569465	6584716	0.22	cps
Indium	115-1	15598129	15713594	15891351	15734358	0.94	cps
Indium	115-2	1593831	1652295	1565938	1604021	2.75	cps
Iron	54-2	2405736	2427526	2395039	2409434	0.69	cps
Iron	56-2	43656281	43907513	43050106	43537967	1.01	cps
Iron	57-2	1092352	1081195	1084743	1086097	0.52	cps
Krypton	83-1	203	223	243	223	8.95	cps
Lead	206-1	21287074	21801241	21421066	21503127	1.24	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18214682	18779130	18744525	18579446	1.70	cps
Lead	208-1	83975087	86616937	86658296	85750107	1.79	cps
Lithium	6-1	5190831	5124151	5173136	5162706	0.67	cps
Magnesium	24-2	6685649	6657216	6759592	6700819	0.79	cps
Manganese	55-2	4930335	4898800	4893318	4907484	0.41	cps
Molybdenum	94-1	20499651	20372818	20551993	20474821	0.45	cps
Molybdenum	95-1	29302171	29353423	29376600	29344065	0.13	cps
Molybdenum	96-1	32070684	32632438	32644262	32449128	1.01	cps
Molybdenum	97-1	18228798	18592403	18439927	18420376	0.99	cps
Molybdenum	98-1	47574196	47736943	47496624	47602588	0.26	cps
Neodymium	150-1	650	567	587	601	7.24	cps
Neodymium	150-2	23	33	27	28	18.33	cps
Nickel	60-2	592768	591345	590273	591462	0.21	cps
Phosphorus	31-2	19169	19406	18735	19104	1.78	cps
Potassium	39-2	2153289	2146113	2164816	2154740	0.44	cps
Rhodium	103-1	14469021	14353155	14484941	14435706	0.50	cps
Rhodium	103-2	5589451	5649888	5609509	5616283	0.55	cps
Scandium	45-1	9870514	9869461	10016924	9918966	0.86	cps
Scandium	45-2	189856	189635	189975	189822	0.09	cps
Selenium	82-1	88955	89525	89918	89466	0.54	cps
Selenium	77-2	1487	1440	1550	1492	3.70	cps
Selenium	78-2	4961	5341	5201	5168	3.72	cps
Silicon	28-1	36701301	36700305	37061602	36821069	0.57	cps
Silver	107-1	7572833	7598678	7600196	7590569	0.20	cps
Silver	109-1	7055865	7309169	7167449	7177494	1.77	cps
Sodium	23-2	13193315	13098781	13509484	13267193	1.62	cps
Strontium	86-1	1957299	1935062	1948665	1947009	0.58	cps
Strontium	88-1	16284181	16513302	16772327	16523270	1.48	cps
Sulfur	34-1	946299	944986	947007	946097	0.11	cps
Terbium	159-1	19824008	19553454	19580072	19652511	0.76	cps
Terbium	159-2	6472893	6432272	6408987	6438050	0.50	cps
Thallium	203-1	5311118	5340593	5279102	5310271	0.58	cps
Thallium	205-1	12497387	12553998	12444239	12498542	0.44	cps
Tin	118-1	4795946	4875187	4905304	4858812	1.16	cps
Titanium	47-1	7798530	7913072	7931820	7881141	0.92	cps
Uranium	238-1	15955037	16605688	16428447	16329724	2.06	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:09:54	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	861857	877245	865400	868167	0.93	cps
Ytterbium	172-1	253	220	283	252	12.56	cps
Ytterbium	172-2	123	123	60	102	35.77	cps
Ytterbium	176-1	26383	28207	28324	27638	3.94	cps
Ytterbium	176-2	9310	9337	9290	9312	0.25	cps
Yttrium	89-1	28741111	28486759	28796080	28674650	0.58	cps
Yttrium	89-2	2101237	2116185	2093214	2103545	0.55	cps
Zinc	66-2	1916823	1911405	1912757	1913662	0.15	cps
Zirconium	90-1	10270415	10270689	10270383	10270496	0.00	cps
Zirconium	91-1	2326134	2323727	2317959	2322607	0.18	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	754606	759205	762936	758916	0.55	cps
Antimony	121-1	11718151	11906551	11894272	11839658	0.89	cps
Arsenic	75-2	226478	226288	225825	226197	0.15	cps
Barium	135-1	13684685	13909201	14191621	13928502	1.82	cps
Barium	137-1	23751291	24014942	24141110	23969115	0.83	cps
Beryllium	9-1	2510808	2538549	2603711	2551023	1.87	cps
Bismuth	209-1	11044171	11059494	10994293	11032653	0.31	cps
Bismuth	209-2	4517791	4468769	4380994	4455851	1.56	cps
Bromine	81-1	27951	27243	29404	28200	3.91	cps
Cadmium	108-1	222557	225326	227690	225191	1.14	cps
Cadmium	106-1	330547	333122	333216	332295	0.46	cps
Cadmium	111-1	2923053	3008503	2987282	2972946	1.50	cps
Calcium	43-1	3502045	3444733	3479891	3475556	0.83	cps
Calcium	44-1	55061588	56067191	56634397	55921059	1.42	cps
Carbon	12-1	3652035	3724371	3702674	3693027	1.01	cps
Carbon	12-2	29566	29563	30582	29904	1.96	cps
Chlorine	35-1	137128	139673	140645	139149	1.31	cps
Chlorine	35-2	547	563	553	554	1.51	cps
Chromium	52-2	2268203	2247177	2230657	2248679	0.84	cps
Cobalt	59-2	4191254	4257179	4205542	4217992	0.82	cps
Copper	63-2	32190469	32202164	32465789	32286140	0.48	cps
Dysprosium	156-1	400	310	310	340	15.28	cps
Dysprosium	156-2	60	53	47	53	12.50	cps
Erbium	164-1	383	420	397	400	4.64	cps
Erbium	164-2	133	143	137	138	3.70	cps
Gadolinium	160-1	313	217	330	287	21.35	cps
Gadolinium	160-2	107	70	113	97	24.14	cps
Holmium	165-1	18647803	18797376	18852676	18765952	0.56	cps
Holmium	165-2	6644699	6688643	6296657	6543333	3.28	cps
Indium	115-1	15240905	15233583	15268927	15247805	0.12	cps
Indium	115-2	1553787	1630292	1469916	1551332	5.17	cps
Iron	54-2	4610050	4519513	4582744	4570769	1.02	cps
Iron	56-2	83634960	84436162	83160467	83743863	0.77	cps
Iron	57-2	2167224	2222470	2146240	2178645	1.81	cps
Krypton	83-1	270	247	233	250	7.42	cps
Lead	206-1	42129486	43070748	42874751	42691662	1.16	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35298152	36290459	36987238	36191950	2.35	cps
Lead	208-1	163581840	168245799	170240444	167356028	2.04	cps
Lithium	6-1	5176444	4987421	5175077	5112981	2.13	cps
Magnesium	24-2	12883428	12890922	12736689	12837013	0.68	cps
Manganese	55-2	9302341	9365330	9260838	9309503	0.57	cps
Molybdenum	94-1	39496279	41007243	40397591	40300371	1.89	cps
Molybdenum	95-1	57644686	58987739	57569146	58067190	1.37	cps
Molybdenum	96-1	62202634	64860144	64340826	63801201	2.21	cps
Molybdenum	97-1	35166572	37196606	36289860	36217679	2.81	cps
Molybdenum	98-1	91291305	94468889	93363082	93041092	1.73	cps
Neodymium	150-1	1120	1170	1150	1147	2.20	cps
Neodymium	150-2	47	83	60	63	29.30	cps
Nickel	60-2	1110541	1115722	1119357	1115207	0.40	cps
Phosphorus	31-2	36402	36506	36820	36576	0.59	cps
Potassium	39-2	4159536	4170631	4029770	4119979	1.90	cps
Rhodium	103-1	13709782	14207258	13905801	13940947	1.80	cps
Rhodium	103-2	5463938	5631037	5366552	5487176	2.44	cps
Scandium	45-1	9640695	9730069	9622717	9664494	0.59	cps
Scandium	45-2	189126	192182	183687	188332	2.28	cps
Selenium	82-1	171121	173722	176617	173820	1.58	cps
Selenium	77-2	2994	2930	3067	2997	2.28	cps
Selenium	78-2	9860	9847	10064	9924	1.22	cps
Silicon	28-1	69684529	71267791	68856622	69936314	1.75	cps
Silver	107-1	14580019	14323104	14778499	14560540	1.57	cps
Silver	109-1	13763831	13776159	14023799	13854596	1.06	cps
Sodium	23-2	25758131	25387152	25119696	25421660	1.26	cps
Strontium	86-1	3696278	3749024	3722319	3722540	0.71	cps
Strontium	88-1	31859925	32777138	32480050	32372371	1.45	cps
Sulfur	34-1	1325455	1354475	1302338	1327423	1.97	cps
Terbium	159-1	19677824	19390479	19435828	19501377	0.79	cps
Terbium	159-2	6343784	6403658	6232797	6326746	1.37	cps
Thallium	203-1	10289408	10351251	10481446	10374035	0.94	cps
Thallium	205-1	24520392	24701489	24840758	24687546	0.65	cps
Tin	118-1	9427891	9637414	9600145	9555150	1.17	cps
Titanium	47-1	15185632	15740737	15579722	15502030	1.84	cps
Uranium	238-1	31758267	32331381	32747920	32279189	1.54	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:12:43	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1740552	1689606	1689948	1706702	1.72	cps
Ytterbium	172-1	367	427	393	396	7.60	cps
Ytterbium	172-2	147	113	130	130	12.82	cps
Ytterbium	176-1	51620	52551	51416	51862	1.17	cps
Ytterbium	176-2	17472	17278	17605	17452	0.94	cps
Yttrium	89-1	27867562	28153591	27801065	27940740	0.67	cps
Yttrium	89-2	2043325	2111142	1993138	2049201	2.89	cps
Zinc	66-2	3619109	3672856	3650364	3647443	0.74	cps
Zirconium	90-1	19796933	20417778	20162104	20125605	1.55	cps
Zirconium	91-1	4470047	4602505	4474215	4515589	1.67	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1472209	1485526	1505257	1487664	1.12	cps
Antimony	121-1	22849065	23064298	22912451	22941938	0.48	cps
Arsenic	75-2	438133	437184	438252	437857	0.13	cps
Barium	135-1	27020495	27270180	27525118	27271931	0.93	cps
Barium	137-1	46272264	46631178	47175909	46693117	0.97	cps
Beryllium	9-1	4788664	4891033	4808448	4829382	1.12	cps
Bismuth	209-1	10672413	10631271	10716271	10673318	0.40	cps
Bismuth	209-2	4213289	4244059	4204715	4220688	0.49	cps
Bromine	81-1	28228	27297	28038	27854	1.77	cps
Cadmium	108-1	426237	433070	433507	430938	0.95	cps
Cadmium	106-1	622797	626385	633571	627584	0.87	cps
Cadmium	111-1	5488520	5499126	5669345	5552330	1.83	cps
Calcium	43-1	6633342	6832698	6755942	6740661	1.49	cps
Calcium	44-1	106319998	109603332	107906235	107943188	1.52	cps
Carbon	12-1	3798871	3823071	3786110	3802684	0.49	cps
Carbon	12-2	31347	31721	31420	31496	0.63	cps
Chlorine	35-1	163425	166804	171988	167406	2.58	cps
Chlorine	35-2	587	763	650	667	13.43	cps
Chromium	52-2	4334316	4318604	4365614	4339511	0.55	cps
Cobalt	59-2	8119750	7996160	7869893	7995268	1.56	cps
Copper	63-2	62727116	62342647	60945446	62005070	1.51	cps
Dysprosium	156-1	643	670	607	640	4.97	cps
Dysprosium	156-2	107	130	77	104	25.60	cps
Erbium	164-1	540	530	503	524	3.61	cps
Erbium	164-2	223	210	203	212	4.80	cps
Gadolinium	160-1	443	390	423	419	6.43	cps
Gadolinium	160-2	143	163	143	150	7.70	cps
Holmium	165-1	18519423	18323329	18642293	18495015	0.87	cps
Holmium	165-2	6316293	6331384	6514604	6387427	1.73	cps
Indium	115-1	14479410	14470165	14834710	14594761	1.42	cps
Indium	115-2	1397749	1408635	1402607	1402997	0.39	cps
Iron	54-2	8935842	9025365	8730410	8897206	1.70	cps
Iron	56-2	163556938	161594674	164329728	163160446	0.86	cps
Iron	57-2	4153875	4054954	4137122	4115317	1.29	cps
Krypton	83-1	330	243	303	292	15.19	cps
Lead	206-1	80980069	82350957	82389925	81906984	0.98	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	69239687	70525712	70149777	69971726	0.95	cps
Lead	208-1	321124274	324749094	324058047	323310471	0.60	cps
Lithium	6-1	4862459	4813401	4967723	4881194	1.62	cps
Magnesium	24-2	24907092	25205132	24826523	24979582	0.80	cps
Manganese	55-2	18531518	18212541	18441338	18395133	0.89	cps
Molybdenum	94-1	76077752	77638809	78345352	77353971	1.50	cps
Molybdenum	95-1	110551092	112774878	112217635	111847868	1.03	cps
Molybdenum	96-1	121908905	124098151	122692132	122899729	0.90	cps
Molybdenum	97-1	68007171	70903379	71090301	70000283	2.47	cps
Molybdenum	98-1	178504397	181788377	183322117	181204964	1.36	cps
Neodymium	150-1	2040	2180	2140	2120	3.40	cps
Neodymium	150-2	137	157	163	152	9.12	cps
Nickel	60-2	2300153	2237089	2269374	2268872	1.39	cps
Phosphorus	31-2	70721	71404	71261	71129	0.51	cps
Potassium	39-2	7882324	8064525	7820683	7922511	1.60	cps
Rhodium	103-1	13348576	13124542	13323011	13265377	0.92	cps
Rhodium	103-2	5235369	5174564	5157902	5189278	0.79	cps
Scandium	45-1	9314964	9473416	9617973	9468784	1.60	cps
Scandium	45-2	182537	186683	185979	185066	1.20	cps
Selenium	82-1	323186	328039	331164	327463	1.23	cps
Selenium	77-2	5648	5715	5528	5630	1.68	cps
Selenium	78-2	19016	18666	18679	18787	1.06	cps
Silicon	28-1	131953105	130982918	132212268	131716097	0.49	cps
Silver	107-1	27654847	28022034	27496524	27724468	0.97	cps
Silver	109-1	25788296	26284780	26254825	26109300	1.07	cps
Sodium	23-2	49461891	50146079	49682171	49763380	0.70	cps
Strontium	86-1	7095693	7160015	7414096	7223268	2.33	cps
Strontium	88-1	61693176	63507611	62703176	62634654	1.45	cps
Sulfur	34-1	2064048	2043436	2068072	2058518	0.64	cps
Terbium	159-1	18982063	19402029	18923931	19102675	1.37	cps
Terbium	159-2	6152430	6182942	6106243	6147205	0.63	cps
Thallium	203-1	19840331	20205644	20141221	20062399	0.97	cps
Thallium	205-1	46651283	47677821	47570421	47299842	1.19	cps
Tin	118-1	18326475	18850671	18398244	18525130	1.53	cps
Titanium	47-1	29430460	30305247	29905465	29880390	1.47	cps
Uranium	238-1	61675416	63841409	64123669	63213498	2.12	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:15:28	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3382360	3359257	3262426	3334681	1.91	cps
Ytterbium	172-1	553	600	603	586	4.77	cps
Ytterbium	172-2	243	223	217	228	6.09	cps
Ytterbium	176-1	98577	100210	100600	99796	1.08	cps
Ytterbium	176-2	33335	33990	33646	33657	0.97	cps
Yttrium	89-1	26984815	27505334	27749374	27413174	1.42	cps
Yttrium	89-2	2016671	1949252	2052197	2006040	2.61	cps
Zinc	66-2	6905492	6880258	6797792	6861181	0.82	cps
Zirconium	90-1	38344649	39046322	40079334	39156768	2.23	cps
Zirconium	91-1	8518986	8708349	8712308	8646548	1.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6825012	6796308	6846721	6822680	0.37	cps
Antimony	121-1	12055	10704	10704	11155	6.99	cps
Arsenic	75-2	210	217	227	218	3.85	cps
Barium	135-1	11909	11949	11895	11918	0.23	cps
Barium	137-1	21474	20439	20706	20873	2.57	cps
Beryllium	9-1	991	811	669	823	19.60	cps
Bismuth	209-1	9554422	9515391	9597518	9555777	0.43	cps
Bismuth	209-2	3803588	3819830	3794580	3806000	0.34	cps
Bromine	81-1	26756	26822	26512	26697	0.61	cps
Cadmium	108-1	233	240	277	250	9.33	cps
Cadmium	106-1	8863	8966	8910	8913	0.58	cps
Cadmium	111-1	7067	7065	7026	7053	0.33	cps
Calcium	43-1	31820541	31809800	31877380	31835907	0.11	cps
Calcium	44-1	517034099	511491939	519633779	516053272	0.81	cps
Carbon	12-1	3510328	3522907	3467412	3500216	0.83	cps
Carbon	12-2	35700	35546	35773	35673	0.33	cps
Chlorine	35-1	112305	112449	114135	112963	0.90	cps
Chlorine	35-2	457	503	517	492	6.40	cps
Chromium	52-2	5968	6128	5998	6031	1.41	cps
Cobalt	59-2	8920	8866	8322	8703	3.80	cps
Copper	63-2	9820	9780	9867	9822	0.44	cps
Dysprosium	156-1	1153	1157	1200	1170	2.23	cps
Dysprosium	156-2	420	307	377	368	15.55	cps
Erbium	164-1	2387	2280	2387	2351	2.62	cps
Erbium	164-2	727	887	907	840	11.75	cps
Gadolinium	160-1	1240	1170	1207	1206	2.90	cps
Gadolinium	160-2	413	443	577	478	18.20	cps
Holmium	165-1	17897126	18009893	17562789	17823269	1.30	cps
Holmium	165-2	6092989	6010994	6134070	6079351	1.03	cps
Indium	115-1	13905201	13818790	13756278	13826756	0.54	cps
Indium	115-2	1381259	1392412	1390675	1388115	0.43	cps
Iron	54-2	40748591	40951046	41232764	40977467	0.59	cps
Iron	56-2	762307535	764409909	762634122	763117189	0.15	cps
Iron	57-2	19404391	19019781	19474780	19299651	1.27	cps
Krypton	83-1	310	303	377	330	12.29	cps
Lead	206-1	58913	57440	58401	58251	1.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	51214	49400	49534	50049	2.02	cps
Lead	208-1	231469	228421	229234	229708	0.69	cps
Lithium	6-1	4427750	4350448	4428918	4402372	1.02	cps
Magnesium	24-2	117125908	115316535	115255752	115899398	0.92	cps
Manganese	55-2	7762	7972	7992	7909	1.61	cps
Molybdenum	94-1	20145	19210	19340	19565	2.59	cps
Molybdenum	95-1	15319	13860	13166	14115	7.78	cps
Molybdenum	96-1	28035	26502	25841	26793	4.20	cps
Molybdenum	97-1	9400	8159	7719	8426	10.35	cps
Molybdenum	98-1	22508	20358	18846	20571	8.95	cps
Neodymium	150-1	447	547	423	472	13.87	cps
Neodymium	150-2	120	137	117	124	8.61	cps
Nickel	60-2	5131	5321	5311	5254	2.04	cps
Phosphorus	31-2	67	83	87	79	13.58	cps
Potassium	39-2	37585948	37821217	38279028	37895397	0.93	cps
Rhodium	103-1	11889448	11927474	11998953	11938625	0.47	cps
Rhodium	103-2	4587188	4591231	4717461	4631960	1.60	cps
Scandium	45-1	8842766	8834472	8887495	8854911	0.32	cps
Scandium	45-2	170009	173221	171115	171448	0.95	cps
Selenium	82-1	263	290	233	262	10.81	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	27	20	27	24	15.75	cps
Silicon	28-1	554010	653111	646243	617788	8.96	cps
Silver	107-1	3287	2920	2644	2950	10.94	cps
Silver	109-1	2904	2554	2407	2621	9.74	cps
Sodium	23-2	233042790	234437310	227981770	231820623	1.47	cps
Strontium	86-1	23890	23890	24151	23977	0.63	cps
Strontium	88-1	205043	204586	205478	205036	0.22	cps
Sulfur	34-1	434804	434710	432509	434008	0.30	cps
Terbium	159-1	18389495	18209294	17915711	18171500	1.32	cps
Terbium	159-2	5875526	5929287	5932097	5912303	0.54	cps
Thallium	203-1	1733	1633	1577	1648	4.81	cps
Thallium	205-1	4551	4017	3621	4063	11.49	cps
Tin	118-1	5781	5338	5324	5481	4.74	cps
Titanium	47-1	3057	2804	2687	2849	6.64	cps
Uranium	238-1	3591	2954	2547	3030	17.36	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:18:15	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	930	917	890	912	2.23	cps
Ytterbium	172-1	1770	1747	1713	1743	1.63	cps
Ytterbium	172-2	693	653	777	708	8.89	cps
Ytterbium	176-1	3244	3277	3224	3248	0.83	cps
Ytterbium	176-2	997	1053	993	1014	3.32	cps
Yttrium	89-1	26696700	25882472	26196973	26258715	1.56	cps
Yttrium	89-2	1963572	1962550	1938374	1954832	0.73	cps
Zinc	66-2	29130	28843	29360	29111	0.89	cps
Zirconium	90-1	31719	32404	31151	31758	1.98	cps
Zirconium	91-1	7239	6902	7032	7057	2.41	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	38320	37455	37752	37843	1.16	cps
Antimony	121-1	4779780	4829750	4865699	4825076	0.89	cps
Arsenic	75-2	97883	98397	97413	97898	0.50	cps
Barium	135-1	562022	568202	573695	567973	1.03	cps
Barium	137-1	979101	992840	990579	987507	0.75	cps
Beryllium	9-1	551355	564415	562219	559329	1.25	cps
Bismuth	209-1	11863442	11912284	11756122	11843949	0.67	cps
Bismuth	209-2	4898911	4826530	4844606	4856682	0.78	cps
Bromine	81-1	31395	31328	30623	31116	1.37	cps
Cadmium	108-1	39316	40021	40259	39865	1.23	cps
Cadmium	106-1	63576	64979	65330	64628	1.44	cps
Cadmium	111-1	597757	615471	615801	609677	1.69	cps
Calcium	43-1	142401	143875	142349	142875	0.61	cps
Calcium	44-1	2318284	2333107	2320992	2324127	0.34	cps
Carbon	12-1	4023973	4053881	4075471	4051108	0.64	cps
Carbon	12-2	31527	32142	32285	31985	1.26	cps
Chlorine	35-1	136315	137738	138559	137537	0.83	cps
Chlorine	35-2	553	497	550	533	5.96	cps
Chromium	52-2	478725	479262	474675	477554	0.53	cps
Cobalt	59-2	925203	921453	923808	923488	0.21	cps
Copper	63-2	737073	738427	732058	735853	0.46	cps
Dysprosium	156-1	40	27	23	30	29.40	cps
Dysprosium	156-2	0	7	7	4	86.60	cps
Erbium	164-1	150	137	200	162	20.58	cps
Erbium	164-2	60	17	20	32	74.83	cps
Gadolinium	160-1	163	87	117	122	31.61	cps
Gadolinium	160-2	10	27	17	18	47.19	cps
Holmium	165-1	19431722	19721318	19420941	19524660	0.87	cps
Holmium	165-2	6900457	6893032	6819422	6870970	0.65	cps
Indium	115-1	16720634	16871370	16773190	16788398	0.46	cps
Indium	115-2	1816500	1820670	1809549	1815573	0.31	cps
Iron	54-2	400257	398048	393810	397371	0.82	cps
Iron	56-2	7129626	7195394	7168214	7164411	0.46	cps
Iron	57-2	178091	178274	178476	178280	0.11	cps
Krypton	83-1	207	230	323	253	24.37	cps
Lead	206-1	3776223	3699657	3755724	3743868	1.06	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3134458	3119597	3134147	3129401	0.27	cps
Lead	208-1	14499975	14522522	14695058	14572518	0.73	cps
Lithium	6-1	5159938	5267006	5462237	5296394	2.89	cps
Magnesium	24-2	315719	318721	319321	317920	0.61	cps
Manganese	55-2	206060	207547	206962	206856	0.36	cps
Molybdenum	94-1	1430	1283	1497	1403	7.78	cps
Molybdenum	95-1	627	693	750	690	8.95	cps
Molybdenum	96-1	1207	1027	1060	1098	8.72	cps
Molybdenum	97-1	383	413	443	413	7.26	cps
Molybdenum	98-1	1053	1130	1070	1084	3.72	cps
Neodymium	150-1	73	67	83	74	11.26	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	272693	271635	272967	272432	0.26	cps
Phosphorus	31-2	80	73	67	73	9.09	cps
Potassium	39-2	356222	360673	354389	357095	0.91	cps
Rhodium	103-1	15671531	15596296	15519916	15595914	0.49	cps
Rhodium	103-2	6127504	6162125	6181833	6157154	0.45	cps
Scandium	45-1	10422134	10434850	10593905	10483630	0.91	cps
Scandium	45-2	201074	201604	201057	201245	0.15	cps
Selenium	82-1	74551	75852	76036	75480	1.07	cps
Selenium	77-2	1227	1453	1320	1333	8.54	cps
Selenium	78-2	4587	4461	4694	4581	2.55	cps
Silicon	28-1	521417	542642	529326	531128	2.02	cps
Silver	107-1	1379703	1424994	1446003	1416900	2.39	cps
Silver	109-1	1320730	1360878	1359246	1346951	1.69	cps
Sodium	23-2	1099007	1079782	1081351	1086713	0.98	cps
Strontium	86-1	2300	2177	2417	2298	5.22	cps
Strontium	88-1	17074	17141	16807	17007	1.04	cps
Sulfur	34-1	524861	523165	522487	523505	0.23	cps
Terbium	159-1	20175198	20408617	20385118	20322978	0.63	cps
Terbium	159-2	6692770	6633407	6823831	6716669	1.45	cps
Thallium	203-1	4618410	4645325	4602461	4622065	0.47	cps
Thallium	205-1	10860304	10812895	10806787	10826662	0.27	cps
Tin	118-1	3671	3811	3937	3806	3.51	cps
Titanium	47-1	280	307	313	300	5.88	cps
Uranium	238-1	243	217	240	233	6.23	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:30:41	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	362604	358107	354079	358263	1.19	cps
Ytterbium	172-1	133	163	113	137	18.41	cps
Ytterbium	172-2	77	53	100	77	30.44	cps
Ytterbium	176-1	2444	2540	2534	2506	2.15	cps
Ytterbium	176-2	637	680	720	679	6.14	cps
Yttrium	89-1	30337868	30494100	29832271	30221413	1.14	cps
Yttrium	89-2	2242115	2260293	2280951	2261120	0.86	cps
Zinc	66-2	160271	160093	160953	160439	0.28	cps
Zirconium	90-1	2460	2627	2757	2615	5.69	cps
Zirconium	91-1	1173	1097	1090	1120	4.13	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1690	1770	1790	1750	3.02	cps
Antimony	121-1	47679	47335	48542	47852	1.30	cps
Arsenic	75-2	500	543	470	504	7.31	cps
Barium	135-1	54439	54536	54720	54565	0.26	cps
Barium	137-1	94711	95786	97266	95921	1.34	cps
Beryllium	9-1	6076	6084	6261	6140	1.70	cps
Bismuth	209-1	11834535	11728994	12041298	11868276	1.34	cps
Bismuth	209-2	4899384	4844034	4783284	4842234	1.20	cps
Bromine	81-1	30871	31328	31602	31267	1.18	cps
Cadmium	108-1	437	443	417	432	3.21	cps
Cadmium	106-1	10467	10474	10794	10579	1.77	cps
Cadmium	111-1	12363	12303	12735	12467	1.88	cps
Calcium	43-1	36038	37188	36322	36516	1.64	cps
Calcium	44-1	600684	609560	611472	607239	0.95	cps
Carbon	12-1	3733044	3659444	3766726	3719738	1.47	cps
Carbon	12-2	29299	29256	29673	29409	0.78	cps
Chlorine	35-1	111569	109695	109708	110324	0.98	cps
Chlorine	35-2	480	360	403	414	14.66	cps
Chromium	52-2	10707	10267	10224	10399	2.57	cps
Cobalt	59-2	9677	9547	9266	9497	2.21	cps
Copper	63-2	16096	16443	16053	16197	1.32	cps
Dysprosium	156-1	27	27	23	26	7.55	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	167	150	120	146	16.25	cps
Erbium	164-2	40	13	53	36	57.29	cps
Gadolinium	160-1	150	140	157	149	5.64	cps
Gadolinium	160-2	40	10	23	24	61.49	cps
Holmium	165-1	19555491	19746590	19600378	19634153	0.51	cps
Holmium	165-2	7042190	6950460	6805439	6932696	1.72	cps
Indium	115-1	16830588	16976874	16848955	16885472	0.47	cps
Indium	115-2	1822431	1777284	1812438	1804051	1.31	cps
Iron	54-2	10461	10571	10624	10552	0.79	cps
Iron	56-2	187611	187337	186401	187116	0.34	cps
Iron	57-2	4677	4781	4454	4637	3.60	cps
Krypton	83-1	257	243	253	251	2.76	cps
Lead	206-1	15609	15710	16474	15931	2.97	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13397	13707	13587	13564	1.15	cps
Lead	208-1	61698	62573	63127	62466	1.15	cps
Lithium	6-1	5177915	5477084	5290847	5315282	2.84	cps
Magnesium	24-2	138080	136654	135647	136794	0.89	cps
Manganese	55-2	6258	6421	6208	6296	1.77	cps
Molybdenum	94-1	49167	49712	49989	49623	0.84	cps
Molybdenum	95-1	58372	58091	59302	58588	1.08	cps
Molybdenum	96-1	64435	64525	64609	64523	0.13	cps
Molybdenum	97-1	35342	36187	36839	36122	2.08	cps
Molybdenum	98-1	92200	94633	93687	93507	1.31	cps
Neodymium	150-1	10	10	23	14	53.28	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	2660	2574	2484	2572	3.43	cps
Phosphorus	31-2	993	937	980	970	3.05	cps
Potassium	39-2	99033	98547	98873	98818	0.25	cps
Rhodium	103-1	15487452	15480222	15575841	15514505	0.34	cps
Rhodium	103-2	6236074	6084395	6168181	6162883	1.23	cps
Scandium	45-1	10423762	10364508	10533991	10440754	0.82	cps
Scandium	45-2	205076	201294	199303	201891	1.45	cps
Selenium	82-1	1840	1720	1877	1812	4.52	cps
Selenium	77-2	33	30	43	36	19.51	cps
Selenium	78-2	123	120	107	117	7.56	cps
Silicon	28-1	596278	649558	620287	622041	4.29	cps
Silver	107-1	32157	31559	32796	32171	1.92	cps
Silver	109-1	30013	30093	30233	30113	0.37	cps
Sodium	23-2	305385	307496	300652	304511	1.15	cps
Strontium	86-1	8279	7862	7949	8030	2.74	cps
Strontium	88-1	65914	66725	67251	66630	1.01	cps
Sulfur	34-1	552629	554832	555815	554425	0.29	cps
Terbium	159-1	20229541	20340838	20031661	20200680	0.78	cps
Terbium	159-2	6716037	6672514	6694613	6694388	0.33	cps
Thallium	203-1	21121	21034	21117	21091	0.23	cps
Thallium	205-1	49631	48788	50792	49737	2.02	cps
Tin	118-1	99267	98820	99149	99078	0.23	cps
Titanium	47-1	17007	17671	17484	17387	1.97	cps
Uranium	238-1	61009	62278	61485	61591	1.04	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:33:52	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17761	17968	17544	17758	1.19	cps
Ytterbium	172-1	150	127	140	139	8.43	cps
Ytterbium	172-2	47	53	53	51	7.52	cps
Ytterbium	176-1	2577	2600	2664	2614	1.72	cps
Ytterbium	176-2	790	727	693	737	6.67	cps
Yttrium	89-1	30311193	30636549	30248760	30398834	0.68	cps
Yttrium	89-2	2290623	2262224	2290739	2281196	0.72	cps
Zinc	66-2	4334	4284	4257	4292	0.91	cps
Zirconium	90-1	44200	44748	45598	44849	1.57	cps
Zirconium	91-1	9760	10124	10097	9994	2.03	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	170	157	133	153	12.10	cps
Antimony	121-1	363	427	413	401	8.32	cps
Arsenic	75-2	0	20	17	12	87.67	cps
Barium	135-1	137	113	123	124	9.41	cps
Barium	137-1	173	187	190	183	4.81	cps
Beryllium	9-1	235	232	239	235	1.60	cps
Bismuth	209-1	12163725	12133060	11937789	12078191	1.01	cps
Bismuth	209-2	4879810	4979983	4894554	4918116	1.10	cps
Bromine	81-1	31849	31048	31325	31407	1.30	cps
Cadmium	108-1	33	27	40	33	20.00	cps
Cadmium	106-1	10167	10561	9864	10197	3.43	cps
Cadmium	111-1	7127	7424	6907	7152	3.63	cps
Calcium	43-1	770	817	830	806	3.91	cps
Calcium	44-1	28294	28448	27943	28228	0.92	cps
Carbon	12-1	3766932	3775010	3732928	3758290	0.59	cps
Carbon	12-2	29076	28922	29463	29153	0.96	cps
Chlorine	35-1	107730	108244	106944	107639	0.61	cps
Chlorine	35-2	347	310	310	322	6.57	cps
Chromium	52-2	1013	953	967	978	3.22	cps
Cobalt	59-2	77	87	73	79	8.80	cps
Copper	63-2	1650	1730	1727	1702	2.66	cps
Dysprosium	156-1	13	30	30	24	39.37	cps
Dysprosium	156-2	17	3	7	9	78.08	cps
Erbium	164-1	117	133	130	127	6.96	cps
Erbium	164-2	50	33	57	47	25.76	cps
Gadolinium	160-1	140	133	120	131	7.77	cps
Gadolinium	160-2	33	23	27	28	18.33	cps
Holmium	165-1	19743872	19760402	19974881	19826385	0.65	cps
Holmium	165-2	6879880	7161387	7005598	7015622	2.01	cps
Indium	115-1	17223616	17301885	16746031	17090511	1.76	cps
Indium	115-2	1780596	1858339	1870557	1836498	2.66	cps
Iron	54-2	600	580	543	574	5.00	cps
Iron	56-2	6168	6071	6538	6259	3.94	cps
Iron	57-2	160	150	240	183	26.91	cps
Krypton	83-1	287	243	263	264	8.20	cps
Lead	206-1	1347	1380	1343	1357	1.49	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1190	1213	1050	1151	7.67	cps
Lead	208-1	5477	5554	5367	5466	1.72	cps
Lithium	6-1	5281937	5372989	5376985	5343970	1.01	cps
Magnesium	24-2	563	500	540	534	5.99	cps
Manganese	55-2	4447	4654	4541	4547	2.28	cps
Molybdenum	94-1	817	653	717	729	11.30	cps
Molybdenum	95-1	330	320	213	288	22.47	cps
Molybdenum	96-1	420	473	443	446	6.00	cps
Molybdenum	97-1	157	177	190	174	9.62	cps
Molybdenum	98-1	423	400	397	407	3.57	cps
Neodymium	150-1	7	17	7	10	57.72	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	273	247	270	263	5.52	cps
Phosphorus	31-2	107	93	113	104	9.75	cps
Potassium	39-2	14811	14524	14477	14604	1.24	cps
Rhodium	103-1	16227904	16043772	15688041	15986572	1.72	cps
Rhodium	103-2	6240940	6377690	6336330	6318320	1.11	cps
Scandium	45-1	10631967	10765100	10616052	10671040	0.77	cps
Scandium	45-2	198839	205120	204369	202776	1.69	cps
Selenium	82-1	-33	-20	-27	-27	-24.99	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	37	20	27	33.08	cps
Silicon	28-1	554136	556982	528109	546409	2.91	cps
Silver	107-1	553	607	483	548	11.29	cps
Silver	109-1	503	373	400	426	16.14	cps
Sodium	23-2	37097	37191	37144	37144	0.13	cps
Strontium	86-1	460	410	507	459	10.53	cps
Strontium	88-1	450	530	477	486	8.39	cps
Sulfur	34-1	537687	540837	543214	540580	0.51	cps
Terbium	159-1	20887985	20407421	20319369	20538258	1.49	cps
Terbium	159-2	6728428	6869799	6712424	6770217	1.28	cps
Thallium	203-1	520	490	590	533	9.62	cps
Thallium	205-1	1163	1210	1150	1175	2.68	cps
Tin	118-1	3247	3574	3490	3437	4.94	cps
Titanium	47-1	213	277	227	239	13.98	cps
Uranium	238-1	167	150	157	158	5.32	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:37:25	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	10	7	10	33.30	cps
Ytterbium	172-1	107	173	133	138	24.35	cps
Ytterbium	172-2	40	77	70	62	31.39	cps
Ytterbium	176-1	2427	2557	2634	2539	4.12	cps
Ytterbium	176-2	767	667	760	731	7.65	cps
Yttrium	89-1	30780774	31172754	30386799	30780109	1.28	cps
Yttrium	89-2	2310549	2320903	2333207	2321553	0.49	cps
Zinc	66-2	423	457	360	413	11.88	cps
Zirconium	90-1	1673	1707	1773	1718	2.96	cps
Zirconium	91-1	350	340	367	352	3.83	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6961414	7045561	6811427	6939467	1.71	cps
Antimony	121-1	25444	26108	25968	25840	1.36	cps
Arsenic	75-2	117	133	197	149	28.35	cps
Barium	135-1	7826	8076	7999	7967	1.61	cps
Barium	137-1	14054	13777	14101	13977	1.25	cps
Beryllium	9-1	1738	1697	1542	1659	6.24	cps
Bismuth	209-1	10832249	11140115	10950982	10974449	1.41	cps
Bismuth	209-2	4384029	4391441	4562457	4445976	2.27	cps
Bromine	81-1	31148	31105	31085	31112	0.10	cps
Cadmium	108-1	5998	5728	5815	5847	2.36	cps
Cadmium	106-1	9714	9333	9483	9510	2.01	cps
Cadmium	111-1	9943	9629	9687	9753	1.71	cps
Calcium	43-1	7038424	7093250	7206031	7112568	1.20	cps
Calcium	44-1	113939742	114337675	117265442	115180953	1.58	cps
Carbon	12-1	43856433	45590841	44422281	44623185	1.98	cps
Carbon	12-2	348694	351342	348233	349423	0.48	cps
Chlorine	35-1	93020242	99455862	103830998	98769034	5.51	cps
Chlorine	35-2	437911	446845	445029	443262	1.07	cps
Chromium	52-2	89806	88689	90638	89711	1.09	cps
Cobalt	59-2	9590	9960	9877	9809	1.98	cps
Copper	63-2	51443	50904	51289	51212	0.54	cps
Dysprosium	156-1	157	83	63	101	48.61	cps
Dysprosium	156-2	50	20	33	34	43.64	cps
Erbium	164-1	253	253	203	237	12.20	cps
Erbium	164-2	63	80	40	61	32.88	cps
Gadolinium	160-1	190	210	183	194	7.14	cps
Gadolinium	160-2	57	60	60	59	3.26	cps
Holmium	165-1	19240109	19540688	19329515	19370104	0.80	cps
Holmium	165-2	6685189	6706302	7102352	6831281	3.44	cps
Indium	115-1	15798004	15784228	15521578	15701270	0.99	cps
Indium	115-2	1648734	1656373	1692808	1665972	1.41	cps
Iron	54-2	18208650	18165465	18267920	18214012	0.28	cps
Iron	56-2	339731188	342389062	338284048	340134766	0.61	cps
Iron	57-2	8626187	8388759	8485764	8500237	1.40	cps
Krypton	83-1	283	290	297	290	2.30	cps
Lead	206-1	75977	75810	75025	75604	0.67	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	60155	60126	60480	60254	0.33	cps
Lead	208-1	280642	287082	283059	283594	1.15	cps
Lithium	6-1	5130140	5029405	5135503	5098349	1.17	cps
Magnesium	24-2	24374414	24926157	24442303	24580958	1.22	cps
Manganese	55-2	18188	18168	18015	18124	0.52	cps
Molybdenum	94-1	13114533	13169772	13243128	13175811	0.49	cps
Molybdenum	95-1	23343620	23350702	23663754	23452692	0.78	cps
Molybdenum	96-1	25008001	24700807	24818535	24842448	0.62	cps
Molybdenum	97-1	14305681	14213793	14487753	14335742	0.97	cps
Molybdenum	98-1	37692666	37190956	37566455	37483359	0.70	cps
Neodymium	150-1	137	110	127	124	10.83	cps
Neodymium	150-2	40	23	27	30	29.40	cps
Nickel	60-2	12739	13049	12619	12803	1.73	cps
Phosphorus	31-2	383593	384990	380466	383016	0.60	cps
Potassium	39-2	16806107	16608778	16607221	16674035	0.69	cps
Rhodium	103-1	13985501	13836336	13991810	13937883	0.63	cps
Rhodium	103-2	5542018	5545869	5839373	5642420	3.02	cps
Scandium	45-1	10216792	10158099	10202070	10192320	0.30	cps
Scandium	45-2	189459	192302	201419	194393	3.21	cps
Selenium	82-1	50	60	17	42	53.73	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	13	17	23	18	28.64	cps
Silicon	28-1	823595	865932	835663	841730	2.59	cps
Silver	107-1	1963	1673	1463	1700	14.77	cps
Silver	109-1	1860	1437	1303	1533	18.96	cps
Sodium	23-2	51095958	51990683	50735099	51273913	1.26	cps
Strontium	86-1	251495	252197	252552	252081	0.21	cps
Strontium	88-1	2317980	2251196	2262306	2277160	1.57	cps
Sulfur	34-1	9076050	8838749	9075812	8996870	1.52	cps
Terbium	159-1	20167238	19814163	20058225	20013208	0.90	cps
Terbium	159-2	6519390	6494718	6778684	6597598	2.38	cps
Thallium	203-1	2414	3224	3891	3176	23.29	cps
Thallium	205-1	5688	7612	8820	7373	21.42	cps
Tin	118-1	7512	7222	6758	7164	5.31	cps
Titanium	47-1	6471146	6529219	6613873	6538079	1.10	cps
Uranium	238-1	1110	1187	1063	1120	5.56	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:40:45	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	603	443	457	501	17.72	cps
Ytterbium	172-1	153	120	190	154	22.67	cps
Ytterbium	172-2	50	43	60	51	16.42	cps
Ytterbium	176-1	2400	2284	2427	2370	3.22	cps
Ytterbium	176-2	657	667	797	707	11.05	cps
Yttrium	89-1	29290000	29062370	28703265	29018545	1.02	cps
Yttrium	89-2	2151058	2179475	2253133	2194556	2.40	cps
Zinc	66-2	8069	8162	8309	8180	1.48	cps
Zirconium	90-1	2260	2507	2660	2476	8.15	cps
Zirconium	91-1	543	570	583	566	3.60	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6854536	6919085	6912548	6895390	0.52	cps
Antimony	121-1	486510	497473	498670	494217	1.36	cps
Arsenic	75-2	10067	9927	9800	9931	1.34	cps
Barium	135-1	120164	121530	123015	121569	1.17	cps
Barium	137-1	211362	211649	213430	212147	0.53	cps
Beryllium	9-1	109569	110524	111620	110571	0.93	cps
Bismuth	209-1	10864458	10987374	10926571	10926134	0.56	cps
Bismuth	209-2	4393511	4459465	4429720	4427565	0.75	cps
Bromine	81-1	33560	33837	35161	34186	2.50	cps
Cadmium	108-1	13797	13397	13523	13572	1.51	cps
Cadmium	106-1	19063	20235	19220	19506	3.26	cps
Cadmium	111-1	120974	123325	124981	123093	1.64	cps
Calcium	43-1	6974854	7019874	7116298	7037009	1.03	cps
Calcium	44-1	112121938	115070608	114401978	113864842	1.36	cps
Carbon	12-1	43980371	44463704	45517619	44653898	1.76	cps
Carbon	12-2	349967	353068	352135	351723	0.45	cps
Chlorine	35-1	100310502	106558432	107693622	104854185	3.79	cps
Chlorine	35-2	457874	459849	466269	461331	0.95	cps
Chromium	52-2	180467	183089	183751	182436	0.95	cps
Cobalt	59-2	182598	182353	181728	182226	0.25	cps
Copper	63-2	185248	185333	184246	184942	0.33	cps
Dysprosium	156-1	110	83	117	103	17.07	cps
Dysprosium	156-2	37	27	33	32	15.80	cps
Erbium	164-1	240	220	253	238	7.06	cps
Erbium	164-2	60	80	77	72	14.84	cps
Gadolinium	160-1	203	227	277	236	15.90	cps
Gadolinium	160-2	73	77	80	77	4.35	cps
Holmium	165-1	19823030	19432402	19830891	19695441	1.16	cps
Holmium	165-2	6805107	6864253	6745813	6805058	0.87	cps
Indium	115-1	15995935	16023725	16268297	16095986	0.93	cps
Indium	115-2	1694460	1661223	1674447	1676710	1.00	cps
Iron	54-2	18565964	18109238	18462417	18379207	1.30	cps
Iron	56-2	341111782	337705202	345186635	341334539	1.10	cps
Iron	57-2	8690525	8634475	8638064	8654355	0.36	cps
Krypton	83-1	297	327	383	336	13.12	cps
Lead	206-1	463710	464698	468678	465695	0.56	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	390369	395272	392920	392854	0.62	cps
Lead	208-1	1790783	1819158	1810376	1806772	0.80	cps
Lithium	6-1	5246431	5047705	5088615	5127584	2.05	cps
Magnesium	24-2	24695635	24789156	24495713	24660168	0.61	cps
Manganese	55-2	57632	56565	56699	56965	1.02	cps
Molybdenum	94-1	13140366	13183036	13511122	13278175	1.53	cps
Molybdenum	95-1	23075913	23046419	23903111	23341814	2.08	cps
Molybdenum	96-1	24824770	24857488	25356861	25013040	1.19	cps
Molybdenum	97-1	14351545	14368561	14817896	14512667	1.82	cps
Molybdenum	98-1	37587567	37598540	38081135	37755747	0.75	cps
Neodymium	150-1	110	153	137	133	16.40	cps
Neodymium	150-2	33	23	27	28	18.33	cps
Nickel	60-2	58456	59360	58915	58910	0.77	cps
Phosphorus	31-2	382699	380872	382355	381975	0.25	cps
Potassium	39-2	16518103	16780906	16996319	16765109	1.43	cps
Rhodium	103-1	14413547	14321108	14472688	14402448	0.53	cps
Rhodium	103-2	5561114	5495811	5533880	5530268	0.59	cps
Scandium	45-1	10116388	10314081	10275205	10235225	1.02	cps
Scandium	45-2	195157	195120	193985	194754	0.34	cps
Selenium	82-1	7299	7532	7729	7520	2.86	cps
Selenium	77-2	127	157	120	134	14.53	cps
Selenium	78-2	447	490	523	487	7.90	cps
Silicon	28-1	837431	851248	871185	853288	1.99	cps
Silver	107-1	537697	554120	554457	548758	1.75	cps
Silver	109-1	513145	523195	517978	518106	0.97	cps
Sodium	23-2	51804231	51824033	51094673	51574312	0.81	cps
Strontium	86-1	253489	253444	256484	254472	0.68	cps
Strontium	88-1	2286843	2301726	2319114	2302561	0.70	cps
Sulfur	34-1	8927737	8806894	9020065	8918232	1.20	cps
Terbium	159-1	20331210	20329396	20311481	20324029	0.05	cps
Terbium	159-2	6522474	6549646	6535175	6535765	0.21	cps
Thallium	203-1	413187	415268	420067	416174	0.85	cps
Thallium	205-1	971308	991576	983399	982094	1.04	cps
Tin	118-1	7129	7059	7059	7082	0.57	cps
Titanium	47-1	6224418	6641165	6514185	6459922	3.31	cps
Uranium	238-1	2004	1997	2050	2017	1.44	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:43:52	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	72003	70891	72020	71638	0.90	cps
Ytterbium	172-1	187	120	160	156	21.57	cps
Ytterbium	172-2	50	60	77	62	21.65	cps
Ytterbium	176-1	2630	2357	2537	2508	5.54	cps
Ytterbium	176-2	623	677	607	636	5.75	cps
Yttrium	89-1	30362803	29619118	29907630	29963184	1.25	cps
Yttrium	89-2	2202397	2180457	2183637	2188830	0.54	cps
Zinc	66-2	23202	23343	22708	23084	1.44	cps
Zirconium	90-1	2227	2420	2527	2391	6.36	cps
Zirconium	91-1	560	663	623	616	8.46	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3764763	3890257	3825600	3826873	1.64	cps
Antimony	121-1	11578245	11666830	11700451	11648509	0.54	cps
Arsenic	75-2	236580	236708	236018	236435	0.16	cps
Barium	135-1	14010058	14124754	14072802	14069204	0.41	cps
Barium	137-1	24364138	24375915	24011763	24250605	0.85	cps
Beryllium	9-1	2459027	2478219	2489495	2475581	0.62	cps
Bismuth	209-1	10176918	10054099	10026913	10085977	0.79	cps
Bismuth	209-2	4104088	4130423	4112052	4115521	0.33	cps
Bromine	81-1	31305	32103	32120	31843	1.46	cps
Cadmium	108-1	215814	221830	221421	219689	1.53	cps
Cadmium	106-1	320632	328520	326618	325257	1.27	cps
Cadmium	111-1	2858489	2843042	2880254	2860595	0.65	cps
Calcium	43-1	16481038	16822857	16775099	16692998	1.11	cps
Calcium	44-1	269294089	270109723	273692823	271032212	0.86	cps
Carbon	12-1	3830282	3892128	3873024	3865145	0.82	cps
Carbon	12-2	35219	35396	34841	35152	0.81	cps
Chlorine	35-1	1441986	1403148	1371613	1405582	2.51	cps
Chlorine	35-2	5461	5348	5201	5337	2.44	cps
Chromium	52-2	2350227	2347569	2357437	2351744	0.22	cps
Cobalt	59-2	4271137	4234268	4316463	4273956	0.96	cps
Copper	63-2	32728575	32608128	32619266	32651990	0.20	cps
Dysprosium	156-1	907	680	700	762	16.47	cps
Dysprosium	156-2	160	207	187	184	12.69	cps
Erbium	164-1	717	720	660	699	4.83	cps
Erbium	164-2	270	220	217	236	12.69	cps
Gadolinium	160-1	573	493	563	543	8.02	cps
Gadolinium	160-2	217	207	223	216	3.89	cps
Holmium	165-1	18615680	18365956	18403001	18461546	0.73	cps
Holmium	165-2	6538765	6494211	6690952	6574643	1.57	cps
Indium	115-1	14963530	14849226	15036821	14949859	0.63	cps
Indium	115-2	1491817	1502722	1507905	1500815	0.55	cps
Iron	54-2	24013620	23708317	24103429	23941789	0.87	cps
Iron	56-2	442803247	444405833	441857313	443022131	0.29	cps
Iron	57-2	11144662	11240718	11283557	11222979	0.63	cps
Krypton	83-1	353	307	343	334	7.35	cps
Lead	206-1	40143972	39884829	40316582	40115127	0.54	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	34264159	34386688	34210628	34287158	0.26	cps
Lead	208-1	159062132	159101425	158723390	158962316	0.13	cps
Lithium	6-1	4697600	4664652	4746857	4703036	0.88	cps
Magnesium	24-2	63163841	63986662	63219221	63456575	0.72	cps
Manganese	55-2	9938983	9843480	9778689	9853718	0.82	cps
Molybdenum	94-1	40535357	41246574	41443060	41074997	1.16	cps
Molybdenum	95-1	57784441	59456336	60107699	59116159	2.03	cps
Molybdenum	96-1	64427332	65225341	65324906	64992526	0.76	cps
Molybdenum	97-1	36364067	36870609	37229369	36821348	1.18	cps
Molybdenum	98-1	93794972	96830529	97304199	95976566	1.98	cps
Neodymium	150-1	1273	1293	1210	1259	3.46	cps
Neodymium	150-2	103	120	113	112	7.48	cps
Nickel	60-2	1097792	1094848	1110810	1101150	0.77	cps
Phosphorus	31-2	39377	38638	38535	38850	1.18	cps
Potassium	39-2	22307136	22280005	22455750	22347630	0.42	cps
Rhodium	103-1	13241973	13304694	13349654	13298774	0.41	cps
Rhodium	103-2	5249704	5311506	5303630	5288280	0.64	cps
Scandium	45-1	9717241	9732805	9707444	9719164	0.13	cps
Scandium	45-2	190108	190007	192103	190739	0.62	cps
Selenium	82-1	166976	170065	168918	168653	0.93	cps
Selenium	77-2	2947	3147	2770	2955	6.38	cps
Selenium	78-2	10684	10404	10627	10572	1.40	cps
Silicon	28-1	71132739	70335634	70155976	70541450	0.74	cps
Silver	107-1	13615601	14192982	13925009	13911197	2.08	cps
Silver	109-1	12996564	13319716	13111771	13142684	1.25	cps
Sodium	23-2	124320258	122313718	125370975	124001650	1.25	cps
Strontium	86-1	3837726	3852557	3829588	3839957	0.30	cps
Strontium	88-1	32325670	33469977	33420450	33072032	1.96	cps
Sulfur	34-1	1337782	1368636	1342240	1349553	1.24	cps
Terbium	159-1	19299201	19265093	19282953	19282416	0.09	cps
Terbium	159-2	6236793	6332087	6429279	6332720	1.52	cps
Thallium	203-1	9956423	9856641	10000655	9937906	0.74	cps
Thallium	205-1	23219589	23467100	23598083	23428257	0.82	cps
Tin	118-1	9443438	9420118	9439622	9434393	0.13	cps
Titanium	47-1	15865650	16003575	16169727	16012984	0.95	cps
Uranium	238-1	31441415	31348643	32107526	31632528	1.31	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:51:26	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1857639	1814996	1851641	1841425	1.25	cps
Ytterbium	172-1	920	920	903	914	1.05	cps
Ytterbium	172-2	343	497	380	407	19.69	cps
Ytterbium	176-1	51664	52527	52721	52304	1.08	cps
Ytterbium	176-2	18052	18239	18259	18184	0.63	cps
Yttrium	89-1	28018196	28390149	28329130	28245825	0.71	cps
Yttrium	89-2	2122462	2134713	2137394	2131523	0.37	cps
Zinc	66-2	3712131	3731588	3693658	3712459	0.51	cps
Zirconium	90-1	20465780	20870832	21094087	20810233	1.53	cps
Zirconium	91-1	4522429	4703181	4680383	4635331	2.12	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	157	183	193	178	10.66	cps
Antimony	121-1	1217	1150	1040	1136	7.86	cps
Arsenic	75-2	3	3	10	6	69.34	cps
Barium	135-1	180	193	183	186	3.74	cps
Barium	137-1	397	320	280	332	17.85	cps
Beryllium	9-1	364	372	337	358	5.14	cps
Bismuth	209-1	11972129	12190853	12123502	12095495	0.93	cps
Bismuth	209-2	4948406	4882984	4813087	4881492	1.39	cps
Bromine	81-1	32768	32210	32301	32426	0.92	cps
Cadmium	108-1	33	37	30	33	10.01	cps
Cadmium	106-1	10391	10141	9947	10159	2.19	cps
Cadmium	111-1	7317	7149	6992	7153	2.27	cps
Calcium	43-1	1007	827	900	911	9.93	cps
Calcium	44-1	30559	30231	30011	30267	0.91	cps
Carbon	12-1	3696116	3810814	3737818	3748249	1.55	cps
Carbon	12-2	28377	28885	28501	28588	0.93	cps
Chlorine	35-1	607742	594290	577249	593094	2.58	cps
Chlorine	35-2	2284	2134	1940	2119	8.12	cps
Chromium	52-2	910	903	893	902	0.93	cps
Cobalt	59-2	110	70	97	92	22.08	cps
Copper	63-2	1973	1847	1960	1927	3.61	cps
Dysprosium	156-1	13	20	20	18	21.66	cps
Dysprosium	156-2	13	10	3	9	57.30	cps
Erbium	164-1	160	160	133	151	10.19	cps
Erbium	164-2	50	50	47	49	3.93	cps
Gadolinium	160-1	110	147	107	121	18.33	cps
Gadolinium	160-2	23	27	50	33	43.59	cps
Holmium	165-1	19899911	19877063	19994827	19923933	0.31	cps
Holmium	165-2	6941834	7013023	6938731	6964529	0.60	cps
Indium	115-1	17128992	17265772	16991067	17128610	0.80	cps
Indium	115-2	1850920	1814523	1808808	1824750	1.25	cps
Iron	54-2	697	733	733	721	2.94	cps
Iron	56-2	9240	9153	9306	9233	0.83	cps
Iron	57-2	253	243	237	244	3.43	cps
Krypton	83-1	213	227	260	233	10.30	cps
Lead	206-1	2187	2134	2047	2122	3.33	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1767	1863	1830	1820	2.70	cps
Lead	208-1	8511	8368	7871	8250	4.07	cps
Lithium	6-1	5416413	5260830	5457448	5378230	1.93	cps
Magnesium	24-2	857	773	783	804	5.66	cps
Manganese	55-2	4441	4371	4394	4402	0.81	cps
Molybdenum	94-1	1597	1320	1433	1450	9.59	cps
Molybdenum	95-1	987	867	870	908	7.53	cps
Molybdenum	96-1	1323	1160	900	1128	18.93	cps
Molybdenum	97-1	620	497	520	546	12.01	cps
Molybdenum	98-1	1567	1440	1397	1468	6.02	cps
Neodymium	150-1	20	7	20	16	49.47	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	250	300	260	270	9.80	cps
Phosphorus	31-2	77	103	60	80	27.32	cps
Potassium	39-2	17594	17240	16553	17129	3.09	cps
Rhodium	103-1	16143459	15989914	16017356	16050243	0.51	cps
Rhodium	103-2	6302918	6159517	6246664	6236366	1.16	cps
Scandium	45-1	10597933	10882431	10648205	10709523	1.42	cps
Scandium	45-2	205627	205164	202227	204339	0.90	cps
Selenium	82-1	50	43	-43	17	312.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	23	23	19	40.75	cps
Silicon	28-1	519301	541571	532161	531011	2.11	cps
Silver	107-1	6300	867	700	2622	121.50	cps
Silver	109-1	697	623	500	607	16.38	cps
Sodium	23-2	46293	45246	45965	45835	1.17	cps
Strontium	86-1	493	480	440	471	5.89	cps
Strontium	88-1	690	693	617	667	6.50	cps
Sulfur	34-1	543460	542353	537698	541170	0.57	cps
Terbium	159-1	20589815	20864630	20624230	20692892	0.72	cps
Terbium	159-2	6801951	6645816	6645050	6697606	1.35	cps
Thallium	203-1	813	813	760	796	3.87	cps
Thallium	205-1	1823	1890	1810	1841	2.33	cps
Tin	118-1	3734	3567	3124	3475	9.08	cps
Titanium	47-1	360	350	363	358	1.94	cps
Uranium	238-1	320	347	367	344	6.80	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 14:57:37	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	30	17	21	36.45	cps
Ytterbium	172-1	110	120	167	132	22.88	cps
Ytterbium	172-2	53	47	37	46	18.41	cps
Ytterbium	176-1	2544	2614	2547	2568	1.54	cps
Ytterbium	176-2	863	713	710	762	11.49	cps
Yttrium	89-1	30819205	31095963	30646419	30853862	0.73	cps
Yttrium	89-2	2327578	2267085	2253651	2282771	1.73	cps
Zinc	66-2	380	387	333	367	7.93	cps
Zirconium	90-1	2697	3001	2537	2745	8.58	cps
Zirconium	91-1	553	523	543	540	2.83	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1723	1813	1737	1758	2.76	cps
Antimony	121-1	48415	49452	48750	48872	1.08	cps
Arsenic	75-2	490	473	477	480	1.84	cps
Barium	135-1	55865	55804	56862	56177	1.06	cps
Barium	137-1	96306	96850	98277	97144	1.05	cps
Beryllium	9-1	6116	6071	6021	6069	0.78	cps
Bismuth	209-1	12033792	12142226	12136070	12104030	0.50	cps
Bismuth	209-2	4948406	5000996	4660856	4870086	3.76	cps
Bromine	81-1	32959	32150	32291	32467	1.33	cps
Cadmium	108-1	477	547	457	493	9.58	cps
Cadmium	106-1	10644	10764	10768	10725	0.66	cps
Cadmium	111-1	12468	12367	12695	12510	1.35	cps
Calcium	43-1	37666	37940	38267	37958	0.79	cps
Calcium	44-1	629914	637228	626002	631048	0.90	cps
Carbon	12-1	3764917	3779850	3753031	3765933	0.36	cps
Carbon	12-2	29169	29232	29306	29236	0.23	cps
Chlorine	35-1	446149	434378	426067	435532	2.32	cps
Chlorine	35-2	1607	1613	1700	1640	3.17	cps
Chromium	52-2	10527	10577	10707	10604	0.88	cps
Cobalt	59-2	9720	9463	9703	9629	1.49	cps
Copper	63-2	16910	16163	16179	16417	2.60	cps
Dysprosium	156-1	27	20	33	27	24.99	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	127	153	123	134	12.23	cps
Erbium	164-2	37	47	40	41	12.39	cps
Gadolinium	160-1	150	143	130	141	7.22	cps
Gadolinium	160-2	33	40	27	33	20.00	cps
Holmium	165-1	19867935	19831754	19974238	19891309	0.37	cps
Holmium	165-2	7083844	7148180	6540021	6924015	4.83	cps
Indium	115-1	17642846	17295772	17194637	17377752	1.35	cps
Indium	115-2	1865258	1909604	1736913	1837258	4.88	cps
Iron	54-2	11238	10677	10744	10886	2.81	cps
Iron	56-2	190734	191474	194908	192372	1.16	cps
Iron	57-2	5041	4834	4534	4803	5.31	cps
Krypton	83-1	253	223	277	251	10.65	cps
Lead	206-1	15943	16020	16087	16017	0.45	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13627	13924	13691	13747	1.14	cps
Lead	208-1	63619	62939	63114	63224	0.56	cps
Lithium	6-1	5205741	5335721	5343411	5294957	1.46	cps
Magnesium	24-2	145587	145378	142597	144521	1.15	cps
Manganese	55-2	6552	6602	6655	6603	0.78	cps
Molybdenum	94-1	50883	52408	52034	51775	1.54	cps
Molybdenum	95-1	59406	60497	60009	59971	0.91	cps
Molybdenum	96-1	66438	68183	66143	66921	1.65	cps
Molybdenum	97-1	37206	37270	37407	37294	0.27	cps
Molybdenum	98-1	96862	97177	96586	96875	0.30	cps
Neodymium	150-1	27	37	40	34	20.14	cps
Neodymium	150-2	3	10	3	6	69.34	cps
Nickel	60-2	2627	2584	2674	2628	1.71	cps
Phosphorus	31-2	1107	1023	1110	1080	4.55	cps
Potassium	39-2	102541	103739	104646	103642	1.02	cps
Rhodium	103-1	15996849	16175002	16016105	16062652	0.61	cps
Rhodium	103-2	6413010	6362952	5962313	6246092	3.95	cps
Scandium	45-1	10951355	10921798	10713818	10862324	1.19	cps
Scandium	45-2	205890	207747	195138	202925	3.35	cps
Selenium	82-1	1914	1760	1860	1845	4.22	cps
Selenium	77-2	43	53	27	41	32.76	cps
Selenium	78-2	93	133	143	123	21.46	cps
Silicon	28-1	608213	603696	533609	581839	7.19	cps
Silver	107-1	32348	32201	32431	32327	0.36	cps
Silver	109-1	30120	31145	30621	30628	1.67	cps
Sodium	23-2	315838	313126	313993	314319	0.44	cps
Strontium	86-1	8102	8413	8486	8334	2.44	cps
Strontium	88-1	67361	68859	69368	68529	1.52	cps
Sulfur	34-1	568697	564336	560672	564568	0.71	cps
Terbium	159-1	20770015	21075602	21007532	20951050	0.77	cps
Terbium	159-2	6810601	6912026	6460447	6727691	3.52	cps
Thallium	203-1	21107	21451	21194	21251	0.84	cps
Thallium	205-1	50428	50535	51154	50705	0.77	cps
Tin	118-1	100116	101754	100834	100901	0.81	cps
Titanium	47-1	17895	17995	17931	17940	0.28	cps
Uranium	238-1	61381	62848	64037	62755	2.12	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:00:57	DataFile Name :	022LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	18402	18485	18362	18416	0.34	cps
Ytterbium	172-1	133	147	163	148	10.17	cps
Ytterbium	172-2	43	63	87	64	33.66	cps
Ytterbium	176-1	2557	2797	2417	2590	7.42	cps
Ytterbium	176-2	710	710	693	704	1.37	cps
Yttrium	89-1	31195120	31439788	31496117	31377008	0.51	cps
Yttrium	89-2	2352031	2330508	2171468	2284669	4.32	cps
Zinc	66-2	4401	4324	4354	4360	0.89	cps
Zirconium	90-1	45992	47233	46795	46673	1.35	cps
Zirconium	91-1	10291	10341	10531	10387	1.22	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	180	183	210	191	8.60	cps
Antimony	121-1	270	203	160	211	26.25	cps
Arsenic	75-2	7	3	10	7	50.03	cps
Barium	135-1	87	77	100	88	13.33	cps
Barium	137-1	133	160	157	150	9.68	cps
Beryllium	9-1	121	123	139	128	7.65	cps
Bismuth	209-1	11882693	12120434	12061077	12021401	1.03	cps
Bismuth	209-2	4887813	5047475	4929108	4954799	1.67	cps
Bromine	81-1	33761	33818	33059	33546	1.26	cps
Cadmium	108-1	27	13	53	31	65.47	cps
Cadmium	106-1	9920	9713	9577	9737	1.78	cps
Cadmium	111-1	6956	6800	6693	6816	1.94	cps
Calcium	43-1	773	727	830	777	6.66	cps
Calcium	44-1	29310	29667	28892	29289	1.32	cps
Carbon	12-1	3646278	3692622	3722579	3687160	1.04	cps
Carbon	12-2	29333	29543	28812	29229	1.29	cps
Chlorine	35-1	193286	191928	192641	192618	0.35	cps
Chlorine	35-2	690	790	750	743	6.77	cps
Chromium	52-2	930	837	830	866	6.46	cps
Cobalt	59-2	57	80	43	60	30.93	cps
Copper	63-2	1357	1537	1363	1419	7.19	cps
Dysprosium	156-1	7	40	20	22	75.49	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	153	183	180	172	9.55	cps
Erbium	164-2	43	43	50	46	8.45	cps
Gadolinium	160-1	93	110	133	112	17.91	cps
Gadolinium	160-2	40	30	27	32	21.53	cps
Holmium	165-1	19791753	19748353	19893941	19811349	0.38	cps
Holmium	165-2	7002069	7106730	7084859	7064553	0.78	cps
Indium	115-1	17228532	17212675	17116174	17185794	0.35	cps
Indium	115-2	1855503	1893185	1866063	1871584	1.04	cps
Iron	54-2	563	560	620	581	5.80	cps
Iron	56-2	5438	8080	5801	6440	22.24	cps
Iron	57-2	137	157	153	149	7.20	cps
Krypton	83-1	243	250	197	230	12.64	cps
Lead	206-1	890	897	803	863	6.03	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	763	690	677	710	6.57	cps
Lead	208-1	3364	3300	3160	3275	3.18	cps
Lithium	6-1	5218731	5180805	5243750	5214429	0.61	cps
Magnesium	24-2	433	463	580	492	15.74	cps
Manganese	55-2	4577	4467	4557	4534	1.29	cps
Molybdenum	94-1	657	660	640	652	1.64	cps
Molybdenum	95-1	253	233	173	220	18.92	cps
Molybdenum	96-1	353	293	300	316	10.42	cps
Molybdenum	97-1	147	113	163	141	18.04	cps
Molybdenum	98-1	357	307	277	313	12.90	cps
Neodymium	150-1	3	7	10	7	50.03	cps
Neodymium	150-2	7	17	0	8	107.84	cps
Nickel	60-2	330	293	250	291	13.76	cps
Phosphorus	31-2	103	77	97	92	15.05	cps
Potassium	39-2	15752	15338	15432	15507	1.40	cps
Rhodium	103-1	16067825	16344308	16271091	16227741	0.88	cps
Rhodium	103-2	6429445	6598943	6404732	6477707	1.63	cps
Scandium	45-1	10666717	10854207	10920914	10813946	1.22	cps
Scandium	45-2	207033	207804	209377	208071	0.57	cps
Selenium	82-1	-10	10	30	10	200.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	37	13	24	47.91	cps
Silicon	28-1	532791	536208	558019	542340	2.52	cps
Silver	107-1	230	287	220	246	14.64	cps
Silver	109-1	133	117	137	129	8.31	cps
Sodium	23-2	36572	36285	36078	36312	0.68	cps
Strontium	86-1	370	490	437	432	13.91	cps
Strontium	88-1	480	450	557	496	11.10	cps
Sulfur	34-1	572572	574866	574061	573833	0.20	cps
Terbium	159-1	20481038	20806136	20516778	20601317	0.87	cps
Terbium	159-2	6927228	6909800	6861788	6899605	0.49	cps
Thallium	203-1	340	263	290	298	13.07	cps
Thallium	205-1	730	667	647	681	6.39	cps
Tin	118-1	3330	3334	3367	3344	0.61	cps
Titanium	47-1	247	253	257	252	2.02	cps
Uranium	238-1	70	87	87	81	11.87	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BL	Instrumnet Name :	P8
Client Sample ID :	PB167960BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:31:03	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	13	0	11	91.66	cps
Ytterbium	172-1	103	127	120	117	10.30	cps
Ytterbium	172-2	50	47	43	47	7.15	cps
Ytterbium	176-1	2457	2614	2474	2515	3.42	cps
Ytterbium	176-2	1007	890	847	914	9.05	cps
Yttrium	89-1	31006078	31889382	31189710	31361723	1.49	cps
Yttrium	89-2	2423128	2357625	2347537	2376096	1.73	cps
Zinc	66-2	337	387	387	370	7.80	cps
Zirconium	90-1	1687	1647	1900	1745	7.81	cps
Zirconium	91-1	340	370	293	334	11.55	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	815803	813170	801851	810275	0.91	cps
Antimony	121-1	12551595	12423489	12612831	12529305	0.77	cps
Arsenic	75-2	247863	244954	245876	246231	0.60	cps
Barium	135-1	14774012	14676024	14868397	14772811	0.65	cps
Barium	137-1	25665662	25271668	25504216	25480515	0.78	cps
Beryllium	9-1	2631139	2609266	2613490	2617965	0.44	cps
Bismuth	209-1	11285899	11330343	11385419	11333887	0.44	cps
Bismuth	209-2	4624922	4557411	4560466	4580933	0.83	cps
Bromine	81-1	31502	31111	30941	31185	0.92	cps
Cadmium	108-1	237595	240028	236918	238180	0.69	cps
Cadmium	106-1	350533	350198	352409	351046	0.34	cps
Cadmium	111-1	3112290	3145142	3127152	3128195	0.53	cps
Calcium	43-1	3650319	3813176	3772905	3745467	2.26	cps
Calcium	44-1	59603826	61551477	61137564	60764289	1.69	cps
Carbon	12-1	3848783	3801291	3748803	3799625	1.32	cps
Carbon	12-2	30692	30428	30989	30703	0.91	cps
Chlorine	35-1	224196	225849	222308	224118	0.79	cps
Chlorine	35-2	953	777	930	887	10.82	cps
Chromium	52-2	2444325	2441668	2451583	2445858	0.21	cps
Cobalt	59-2	4482621	4549124	4578775	4536840	1.09	cps
Copper	63-2	35551201	35224021	34382224	35052482	1.72	cps
Dysprosium	156-1	427	360	297	361	18.00	cps
Dysprosium	156-2	53	67	93	71	28.64	cps
Erbium	164-1	387	353	367	369	4.55	cps
Erbium	164-2	107	133	117	119	11.33	cps
Gadolinium	160-1	337	300	307	314	6.21	cps
Gadolinium	160-2	93	133	73	100	30.56	cps
Holmium	165-1	19921380	19227326	19514847	19554518	1.78	cps
Holmium	165-2	6874376	6791863	6778914	6815051	0.76	cps
Indium	115-1	15913492	16298468	16124610	16112190	1.20	cps
Indium	115-2	1672247	1709020	1658609	1679959	1.55	cps
Iron	54-2	5144619	4955875	4930233	5010242	2.34	cps
Iron	56-2	90699249	90692582	90095449	90495760	0.38	cps
Iron	57-2	2366047	2364389	2303399	2344612	1.52	cps
Krypton	83-1	250	253	270	258	4.16	cps
Lead	206-1	42820868	43879748	44051806	43584140	1.53	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36573284	37248004	37603407	37141565	1.41	cps
Lead	208-1	168845523	171800591	173905735	171517283	1.48	cps
Lithium	6-1	5118674	5037397	5088959	5081677	0.81	cps
Magnesium	24-2	13922901	13935455	13883866	13914074	0.19	cps
Manganese	55-2	10421351	10245622	10177023	10281332	1.23	cps
Molybdenum	94-1	42342091	43983618	43071599	43132436	1.91	cps
Molybdenum	95-1	61616707	63486999	62680839	62594849	1.50	cps
Molybdenum	96-1	67228121	68369477	69070741	68222780	1.36	cps
Molybdenum	97-1	37849558	38346224	38811613	38335798	1.25	cps
Molybdenum	98-1	99313195	100917459	101260005	100496886	1.03	cps
Neodymium	150-1	1257	1150	1193	1200	4.47	cps
Neodymium	150-2	60	57	80	66	19.25	cps
Nickel	60-2	1188546	1201398	1196000	1195314	0.54	cps
Phosphorus	31-2	39875	40734	39136	39915	2.00	cps
Potassium	39-2	4556313	4547898	4586038	4563416	0.44	cps
Rhodium	103-1	14919712	14613076	14998109	14843633	1.37	cps
Rhodium	103-2	5717431	5742093	5690302	5716609	0.45	cps
Scandium	45-1	10263682	10604291	10375651	10414541	1.67	cps
Scandium	45-2	197661	198388	198341	198130	0.21	cps
Selenium	82-1	181978	185524	183090	183531	0.99	cps
Selenium	77-2	2944	3144	3307	3131	5.81	cps
Selenium	78-2	10477	10584	10561	10541	0.53	cps
Silicon	28-1	78859005	75985347	76581534	77141962	1.97	cps
Silver	107-1	15498925	15442263	15282294	15407827	0.73	cps
Silver	109-1	14505788	14801846	14598945	14635526	1.03	cps
Sodium	23-2	27571537	27387799	27519125	27492820	0.34	cps
Strontium	86-1	4004251	4058243	4005846	4022780	0.76	cps
Strontium	88-1	34799182	34673390	34924370	34798981	0.36	cps
Sulfur	34-1	1512323	1447641	1427845	1462603	3.02	cps
Terbium	159-1	20102632	20202106	20113946	20139562	0.27	cps
Terbium	159-2	6631035	6587494	6593370	6603966	0.36	cps
Thallium	203-1	10469914	10770980	10868065	10702986	1.94	cps
Thallium	205-1	24485005	25548763	25361384	25131717	2.26	cps
Tin	118-1	10104873	9919203	9932921	9985665	1.04	cps
Titanium	47-1	16727526	17178070	16761518	16889038	1.49	cps
Uranium	238-1	32271206	32456272	33512387	32746622	2.04	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960BS	Instrumnet Name :	P8
Client Sample ID :	PB167960BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:34:24	DataFile Name :	024LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1851538	1840677	1847213	1846476	0.30	cps
Ytterbium	172-1	300	443	330	358	21.13	cps
Ytterbium	172-2	140	163	127	143	12.95	cps
Ytterbium	176-1	53233	53822	54070	53709	0.80	cps
Ytterbium	176-2	17969	18119	17912	18000	0.59	cps
Yttrium	89-1	30160309	30088417	29988782	30079169	0.29	cps
Yttrium	89-2	2161131	2186566	2204628	2184108	1.00	cps
Zinc	66-2	3987178	3949990	3901349	3946172	1.09	cps
Zirconium	90-1	21366340	22249276	21904785	21840133	2.04	cps
Zirconium	91-1	4800997	4870344	4859616	4843652	0.77	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	203	213	260	226	13.41	cps
Antimony	121-1	2897	2507	2297	2567	11.86	cps
Arsenic	75-2	7	10	13	10	33.30	cps
Barium	135-1	420	350	343	371	11.44	cps
Barium	137-1	850	590	543	661	24.99	cps
Beryllium	9-1	457	410	433	433	5.44	cps
Bismuth	209-1	12265279	12178560	12258927	12234255	0.40	cps
Bismuth	209-2	5003164	4838515	4955601	4932427	1.72	cps
Bromine	81-1	32698	32060	32110	32289	1.10	cps
Cadmium	108-1	40	37	33	37	9.10	cps
Cadmium	106-1	10034	9900	10294	10076	1.99	cps
Cadmium	111-1	7119	7031	7269	7140	1.68	cps
Calcium	43-1	987	940	900	942	4.60	cps
Calcium	44-1	29671	28969	29653	29431	1.36	cps
Carbon	12-1	3784847	3668752	3771516	3741705	1.70	cps
Carbon	12-2	28868	29503	29156	29176	1.09	cps
Chlorine	35-1	212618	214990	213205	213605	0.58	cps
Chlorine	35-2	797	850	707	784	9.24	cps
Chromium	52-2	910	920	923	918	0.76	cps
Cobalt	59-2	130	143	120	131	8.93	cps
Copper	63-2	2087	1963	2024	2025	3.05	cps
Dysprosium	156-1	3	13	20	12	68.66	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	130	153	140	141	8.30	cps
Erbium	164-2	33	53	7	31	75.25	cps
Gadolinium	160-1	123	133	133	130	4.44	cps
Gadolinium	160-2	23	23	37	28	27.73	cps
Holmium	165-1	20406502	20278949	19782955	20156136	1.63	cps
Holmium	165-2	7077969	6877737	7001405	6985704	1.45	cps
Indium	115-1	17088141	16864381	17370769	17107764	1.48	cps
Indium	115-2	1822440	1836582	1805557	1821526	0.85	cps
Iron	54-2	550	587	607	581	4.95	cps
Iron	56-2	7118	6852	7008	6993	1.92	cps
Iron	57-2	160	147	163	157	5.63	cps
Krypton	83-1	263	250	197	237	14.91	cps
Lead	206-1	3140	2780	2587	2836	9.90	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2637	2697	2127	2487	12.60	cps
Lead	208-1	12459	11512	10072	11348	10.59	cps
Lithium	6-1	5215277	5346040	5320958	5294091	1.31	cps
Magnesium	24-2	747	653	707	702	6.67	cps
Manganese	55-2	4091	3967	3897	3985	2.46	cps
Molybdenum	94-1	2670	2220	2107	2332	12.78	cps
Molybdenum	95-1	2917	2294	1843	2351	22.93	cps
Molybdenum	96-1	3157	2660	2254	2690	16.82	cps
Molybdenum	97-1	1783	1260	1160	1401	23.89	cps
Molybdenum	98-1	4307	3487	2980	3592	18.64	cps
Neodymium	150-1	27	17	13	19	36.75	cps
Neodymium	150-2	7	3	7	6	34.70	cps
Nickel	60-2	310	330	330	323	3.57	cps
Phosphorus	31-2	77	97	63	79	21.27	cps
Potassium	39-2	15285	15422	15038	15248	1.28	cps
Rhodium	103-1	15816906	16010874	15923649	15917143	0.61	cps
Rhodium	103-2	6243636	6337906	6388891	6323478	1.17	cps
Scandium	45-1	10588038	10845267	10726267	10719857	1.20	cps
Scandium	45-2	206894	202149	202393	203812	1.31	cps
Selenium	82-1	-10	17	67	24	159.24	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	27	20	30	26	19.92	cps
Silicon	28-1	542561	574441	582502	566501	3.73	cps
Silver	107-1	1710	1457	1233	1467	16.26	cps
Silver	109-1	1540	1350	1113	1335	16.02	cps
Sodium	23-2	40774	39834	40061	40223	1.22	cps
Strontium	86-1	617	570	510	566	9.45	cps
Strontium	88-1	1467	1220	1190	1292	11.75	cps
Sulfur	34-1	526275	525036	527705	526339	0.25	cps
Terbium	159-1	20788692	20768673	21070036	20875800	0.81	cps
Terbium	159-2	6781513	6773684	6738008	6764402	0.34	cps
Thallium	203-1	797	763	687	749	7.53	cps
Thallium	205-1	2067	1803	1623	1831	12.18	cps
Tin	118-1	3701	3737	3807	3748	1.45	cps
Titanium	47-1	733	600	503	612	18.86	cps
Uranium	238-1	1143	720	663	842	31.15	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB167960TB	Instrumnet Name :	P8
Client Sample ID :	PB167960TB	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:37:08	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	33	37	37	9.10	cps
Ytterbium	172-1	143	143	127	138	6.99	cps
Ytterbium	172-2	60	43	57	53	16.54	cps
Ytterbium	176-1	2547	2530	2390	2489	3.46	cps
Ytterbium	176-2	800	653	777	743	10.60	cps
Yttrium	89-1	30571188	31194234	30878764	30881395	1.01	cps
Yttrium	89-2	2295467	2313179	2301026	2303224	0.39	cps
Zinc	66-2	613	650	517	593	11.61	cps
Zirconium	90-1	2960	2967	2757	2895	4.12	cps
Zirconium	91-1	657	667	553	626	10.03	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	208089	205717	207912	207239	0.64	cps
Antimony	121-1	1220	1250	1173	1215	3.18	cps
Arsenic	75-2	283	263	273	273	3.66	cps
Barium	135-1	110304	111148	112808	111420	1.14	cps
Barium	137-1	187527	190873	193178	190526	1.49	cps
Beryllium	9-1	934	911	922	922	1.26	cps
Bismuth	209-1	11945646	12230822	12233030	12136499	1.36	cps
Bismuth	209-2	4848883	4844724	4834553	4842720	0.15	cps
Bromine	81-1	32558	32685	31890	32377	1.32	cps
Cadmium	108-1	93	57	47	66	37.47	cps
Cadmium	106-1	10678	10628	10060	10455	3.28	cps
Cadmium	111-1	7736	7696	7260	7564	3.49	cps
Calcium	43-1	3212593	3277001	3239412	3243002	1.00	cps
Calcium	44-1	52104633	51748051	52753071	52201918	0.98	cps
Carbon	12-1	4423201	4516276	4599820	4513099	1.96	cps
Carbon	12-2	36111	36328	37107	36515	1.43	cps
Chlorine	35-1	184706	185297	184105	184703	0.32	cps
Chlorine	35-2	643	707	753	701	7.87	cps
Chromium	52-2	3704	3737	3640	3694	1.33	cps
Cobalt	59-2	143333	144623	144353	144103	0.47	cps
Copper	63-2	22939	22752	22495	22728	0.98	cps
Dysprosium	156-1	66431	68544	68059	67678	1.64	cps
Dysprosium	156-2	22539	22723	22970	22744	0.95	cps
Erbium	164-1	77916	78030	78191	78046	0.18	cps
Erbium	164-2	25965	25778	24917	25553	2.19	cps
Gadolinium	160-1	66324	68059	66914	67099	1.32	cps
Gadolinium	160-2	26289	27438	27305	27011	2.33	cps
Holmium	165-1	20268058	20467478	20387291	20374276	0.49	cps
Holmium	165-2	6979479	7067939	7002254	7016558	0.65	cps
Indium	115-1	16960964	16987988	16919204	16956052	0.20	cps
Indium	115-2	1777303	1758025	1783320	1772883	0.75	cps
Iron	54-2	8109599	8004244	8166254	8093366	1.02	cps
Iron	56-2	147871021	152377594	151609651	150619422	1.60	cps
Iron	57-2	3860122	3837239	3856518	3851293	0.32	cps
Krypton	83-1	363	283	403	350	17.46	cps
Lead	206-1	2337	2114	2257	2236	5.06	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2114	1900	1873	1962	6.70	cps
Lead	208-1	9325	8708	8785	8939	3.76	cps
Lithium	6-1	5289282	5254841	5149327	5231150	1.39	cps
Magnesium	24-2	3331839	3295453	3358640	3328644	0.95	cps
Manganese	55-2	1666314	1681134	1723240	1690229	1.75	cps
Molybdenum	94-1	1713	1873	1677	1755	5.96	cps
Molybdenum	95-1	1350	1270	1237	1286	4.53	cps
Molybdenum	96-1	3951	4171	3794	3972	4.77	cps
Molybdenum	97-1	797	743	643	728	10.70	cps
Molybdenum	98-1	1954	1737	1690	1793	7.84	cps
Neodymium	150-1	64903	66115	66192	65737	1.10	cps
Neodymium	150-2	16260	15996	16167	16141	0.83	cps
Nickel	60-2	40170	40093	39598	39954	0.78	cps
Phosphorus	31-2	127	117	153	132	14.34	cps
Potassium	39-2	84137	84237	84707	84360	0.36	cps
Rhodium	103-1	15877229	15630499	15478432	15662053	1.29	cps
Rhodium	103-2	6057196	6001729	6097207	6052044	0.79	cps
Scandium	45-1	10850066	10838516	10869856	10852812	0.15	cps
Scandium	45-2	199278	201470	201680	200809	0.66	cps
Selenium	82-1	143	130	63	112	38.19	cps
Selenium	77-2	87	87	77	83	6.93	cps
Selenium	78-2	123	90	80	98	23.21	cps
Silicon	28-1	81368300	81816725	81366529	81517185	0.32	cps
Silver	107-1	687	700	643	677	4.38	cps
Silver	109-1	553	393	420	456	18.82	cps
Sodium	23-2	6028329	5850220	6055052	5977867	1.86	cps
Strontium	86-1	736176	750076	753731	746661	1.24	cps
Strontium	88-1	6667929	6737984	6713587	6706500	0.53	cps
Sulfur	34-1	6074974	6125280	6111225	6103826	0.43	cps
Terbium	159-1	20696143	21163254	20557194	20805531	1.53	cps
Terbium	159-2	6815856	6778447	6788557	6794287	0.28	cps
Thallium	203-1	513	513	457	494	6.62	cps
Thallium	205-1	1217	1170	1093	1160	5.37	cps
Tin	118-1	3387	3561	3577	3508	3.00	cps
Titanium	47-1	1950	1900	1757	1869	5.37	cps
Uranium	238-1	38147	37799	38495	38147	0.91	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-33-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:40:29	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	195277	196034	195811	195707	0.20	cps
Ytterbium	172-1	24633	25127	25167	24976	1.19	cps
Ytterbium	172-2	9737	10064	9930	9910	1.66	cps
Ytterbium	176-1	17689	17902	17856	17815	0.63	cps
Ytterbium	176-2	6895	6738	7125	6920	2.81	cps
Yttrium	89-1	32591670	32743145	32852585	32729133	0.40	cps
Yttrium	89-2	2328726	2403335	2366978	2366347	1.58	cps
Zinc	66-2	82575	82300	83269	82715	0.60	cps
Zirconium	90-1	2864	3040	2984	2963	3.05	cps
Zirconium	91-1	623	717	680	673	6.98	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	157324	153121	152547	154331	1.69	cps
Antimony	121-1	563	517	570	550	5.28	cps
Arsenic	75-2	173	243	190	202	18.08	cps
Barium	135-1	114432	114845	116825	115367	1.11	cps
Barium	137-1	200074	201135	199631	200280	0.39	cps
Beryllium	9-1	815	771	770	785	3.24	cps
Bismuth	209-1	11798925	11767184	11821186	11795765	0.23	cps
Bismuth	209-2	4687979	4745615	4719616	4717737	0.61	cps
Bromine	81-1	31198	31786	31098	31361	1.19	cps
Cadmium	108-1	83	63	23	57	53.92	cps
Cadmium	106-1	9980	9817	9523	9774	2.37	cps
Cadmium	111-1	7315	7188	6910	7137	2.90	cps
Calcium	43-1	3928596	4041782	4022450	3997609	1.51	cps
Calcium	44-1	64210379	64822974	65289817	64774390	0.84	cps
Carbon	12-1	4410341	4577454	4684975	4557590	3.04	cps
Carbon	12-2	37000	36382	36375	36586	0.98	cps
Chlorine	35-1	174711	173965	173142	173939	0.45	cps
Chlorine	35-2	727	663	757	716	6.66	cps
Chromium	52-2	3097	3014	3287	3133	4.47	cps
Cobalt	59-2	144398	144252	144542	144397	0.10	cps
Copper	63-2	23907	23249	23149	23435	1.76	cps
Dysprosium	156-1	59970	61233	60500	60568	1.05	cps
Dysprosium	156-2	20496	20599	20052	20382	1.43	cps
Erbium	164-1	71648	72385	72144	72059	0.52	cps
Erbium	164-2	23227	23541	23387	23385	0.67	cps
Gadolinium	160-1	59894	60017	60121	60011	0.19	cps
Gadolinium	160-2	24316	24526	24766	24536	0.92	cps
Holmium	165-1	20079494	19438848	19821138	19779827	1.63	cps
Holmium	165-2	6898776	6781205	6767296	6815759	1.06	cps
Indium	115-1	16646959	16514753	16903215	16688309	1.18	cps
Indium	115-2	1740380	1769446	1755551	1755126	0.83	cps
Iron	54-2	7549705	7588579	7546013	7561432	0.31	cps
Iron	56-2	142140831	140747058	140066121	140984670	0.75	cps
Iron	57-2	3556779	3563119	3607213	3575704	0.77	cps
Krypton	83-1	373	397	393	388	3.25	cps
Lead	206-1	2007	2027	1940	1991	2.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1713	1720	1560	1665	5.44	cps
Lead	208-1	7848	7704	7681	7744	1.17	cps
Lithium	6-1	5325194	5233077	5204437	5254236	1.20	cps
Magnesium	24-2	3179173	3088815	3020416	3096135	2.57	cps
Manganese	55-2	2254388	2207782	2258670	2240280	1.26	cps
Molybdenum	94-1	1460	1497	1597	1518	4.66	cps
Molybdenum	95-1	993	1187	1097	1092	8.86	cps
Molybdenum	96-1	3530	3320	3647	3499	4.73	cps
Molybdenum	97-1	573	590	613	592	3.39	cps
Molybdenum	98-1	1683	1580	1417	1560	8.62	cps
Neodymium	150-1	57556	58460	58095	58037	0.78	cps
Neodymium	150-2	13897	14094	13901	13964	0.81	cps
Nickel	60-2	37189	36143	37001	36778	1.52	cps
Phosphorus	31-2	117	103	133	118	12.77	cps
Potassium	39-2	84616	84036	84616	84423	0.40	cps
Rhodium	103-1	15403841	15303807	15110500	15272716	0.98	cps
Rhodium	103-2	5938719	5992926	5963643	5965096	0.45	cps
Scandium	45-1	10695587	10475368	10511241	10560732	1.12	cps
Scandium	45-2	196100	198127	197339	197189	0.52	cps
Selenium	82-1	93	147	87	109	30.20	cps
Selenium	77-2	63	73	100	79	24.03	cps
Selenium	78-2	90	107	90	96	10.07	cps
Silicon	28-1	77039572	79081227	77246697	77789166	1.44	cps
Silver	107-1	577	480	563	540	9.70	cps
Silver	109-1	427	393	397	406	4.53	cps
Sodium	23-2	6385922	6283156	6247199	6305426	1.14	cps
Strontium	86-1	827394	842223	840496	836704	0.97	cps
Strontium	88-1	7406841	7516079	7497906	7473609	0.78	cps
Sulfur	34-1	6304621	6367886	6327374	6333294	0.51	cps
Terbium	159-1	20312153	20147346	20534384	20331294	0.96	cps
Terbium	159-2	6642313	6645415	6600542	6629423	0.38	cps
Thallium	203-1	533	493	463	497	7.07	cps
Thallium	205-1	1137	1020	1147	1101	6.40	cps
Tin	118-1	4421	4151	4261	4277	3.18	cps
Titanium	47-1	1697	1610	1520	1609	5.49	cps
Uranium	238-1	34935	34487	35062	34828	0.87	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-34-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:43:43	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	131191	130549	131272	131004	0.30	cps
Ytterbium	172-1	23995	24176	23327	23833	1.88	cps
Ytterbium	172-2	9227	9420	9447	9365	1.28	cps
Ytterbium	176-1	16691	17285	16464	16813	2.52	cps
Ytterbium	176-2	6435	6718	6398	6517	2.69	cps
Yttrium	89-1	31714715	31353674	31591102	31553163	0.58	cps
Yttrium	89-2	2337299	2333720	2301393	2324138	0.85	cps
Zinc	66-2	80584	80302	81600	80829	0.84	cps
Zirconium	90-1	2424	2600	2780	2601	6.86	cps
Zirconium	91-1	570	533	580	561	4.38	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143571	143376	141682	142876	0.73	cps
Antimony	121-1	420	417	387	408	4.50	cps
Arsenic	75-2	217	207	150	191	18.81	cps
Barium	135-1	114206	114955	114656	114606	0.33	cps
Barium	137-1	198795	198723	201691	199736	0.85	cps
Beryllium	9-1	815	844	794	818	3.02	cps
Bismuth	209-1	11740858	11781276	11781589	11767908	0.20	cps
Bismuth	209-2	4784998	4731285	4723046	4746443	0.71	cps
Bromine	81-1	30834	30306	30259	30466	1.05	cps
Cadmium	108-1	53	47	53	51	7.52	cps
Cadmium	106-1	10257	9787	9417	9820	4.29	cps
Cadmium	111-1	7446	7205	6874	7175	4.00	cps
Calcium	43-1	3759272	3853475	3772207	3794984	1.35	cps
Calcium	44-1	60404147	62722317	61361864	61496110	1.89	cps
Carbon	12-1	4324311	4495702	4508554	4442855	2.32	cps
Carbon	12-2	36047	35620	35917	35861	0.61	cps
Chlorine	35-1	168505	165005	165430	166314	1.15	cps
Chlorine	35-2	677	640	610	642	5.20	cps
Chromium	52-2	3090	2924	3060	3025	2.94	cps
Cobalt	59-2	164718	165391	164184	164765	0.37	cps
Copper	63-2	24598	24758	24585	24647	0.39	cps
Dysprosium	156-1	61253	60680	62033	61322	1.11	cps
Dysprosium	156-2	20366	20279	20606	20417	0.83	cps
Erbium	164-1	71374	71032	72999	71801	1.46	cps
Erbium	164-2	23481	23394	23781	23552	0.86	cps
Gadolinium	160-1	59867	60406	61236	60503	1.14	cps
Gadolinium	160-2	24566	24412	24583	24520	0.38	cps
Holmium	165-1	20121883	19845712	19964725	19977440	0.69	cps
Holmium	165-2	6842733	6724884	6785176	6784265	0.87	cps
Indium	115-1	16745147	16558203	16756494	16686615	0.67	cps
Indium	115-2	1753917	1743506	1736775	1744732	0.50	cps
Iron	54-2	7553223	7498137	7351025	7467462	1.40	cps
Iron	56-2	139571861	140211105	135369878	138384281	1.90	cps
Iron	57-2	3590991	3534619	3530886	3552166	0.95	cps
Krypton	83-1	417	337	323	359	14.07	cps
Lead	206-1	1920	1913	1837	1890	2.45	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1663	1813	1560	1679	7.59	cps
Lead	208-1	7631	7721	7594	7649	0.85	cps
Lithium	6-1	5097880	5256437	5114448	5156255	1.69	cps
Magnesium	24-2	3206650	3171985	3171527	3183387	0.63	cps
Manganese	55-2	2333793	2361030	2273094	2322639	1.94	cps
Molybdenum	94-1	1520	1457	1473	1483	2.21	cps
Molybdenum	95-1	973	870	893	912	5.94	cps
Molybdenum	96-1	3360	3230	3407	3333	2.75	cps
Molybdenum	97-1	503	490	490	494	1.56	cps
Molybdenum	98-1	1103	1200	1177	1160	4.35	cps
Neodymium	150-1	57690	58457	58456	58201	0.76	cps
Neodymium	150-2	14241	14041	13760	14014	1.72	cps
Nickel	60-2	37740	37549	37773	37688	0.32	cps
Phosphorus	31-2	70	97	127	98	28.99	cps
Potassium	39-2	91773	93769	92819	92787	1.08	cps
Rhodium	103-1	15611572	15168963	15326261	15368932	1.46	cps
Rhodium	103-2	5941030	5954787	5943358	5946391	0.12	cps
Scandium	45-1	10479747	10674113	10765563	10639808	1.37	cps
Scandium	45-2	197644	198107	197079	197610	0.26	cps
Selenium	82-1	110	177	107	131	30.12	cps
Selenium	77-2	57	63	50	57	11.76	cps
Selenium	78-2	57	83	90	77	23.00	cps
Silicon	28-1	84412625	84873927	87795909	85694154	2.14	cps
Silver	107-1	400	483	477	453	10.22	cps
Silver	109-1	277	313	307	299	6.54	cps
Sodium	23-2	6952417	6965911	6880442	6932923	0.66	cps
Strontium	86-1	861598	872968	885948	873505	1.39	cps
Strontium	88-1	7764374	7912493	7890482	7855783	1.02	cps
Sulfur	34-1	6303152	6163889	6293688	6253577	1.24	cps
Terbium	159-1	20415526	20330593	20633913	20460011	0.76	cps
Terbium	159-2	6723811	6621692	6671218	6672240	0.77	cps
Thallium	203-1	473	467	503	481	4.06	cps
Thallium	205-1	1067	1090	1003	1053	4.26	cps
Tin	118-1	5124	5124	5284	5178	1.78	cps
Titanium	47-1	1830	1753	1810	1798	2.21	cps
Uranium	238-1	26374	27446	27229	27017	2.10	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-35-050725	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:46:54	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	97029	97694	95580	96768	1.12	cps
Ytterbium	172-1	23207	23935	23264	23469	1.73	cps
Ytterbium	172-2	9273	9470	9333	9359	1.08	cps
Ytterbium	176-1	16657	16874	17238	16923	1.73	cps
Ytterbium	176-2	6248	6545	6432	6408	2.34	cps
Yttrium	89-1	31925961	31783550	31743562	31817691	0.30	cps
Yttrium	89-2	2349684	2326130	2291072	2322295	1.27	cps
Zinc	66-2	79602	79659	78885	79382	0.54	cps
Zirconium	90-1	2450	2690	2707	2616	5.49	cps
Zirconium	91-1	573	577	567	572	0.89	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1017552	1013758	1008841	1013383	0.43	cps
Antimony	121-1	1063	977	977	1006	4.98	cps
Arsenic	75-2	2824	2564	2684	2690	4.84	cps
Barium	135-1	141456	140166	140712	140778	0.46	cps
Barium	137-1	240854	246049	245707	244204	1.19	cps
Beryllium	9-1	12668	12922	12640	12743	1.22	cps
Bismuth	209-1	12102570	11950494	11924166	11992410	0.80	cps
Bismuth	209-2	4769229	4718532	4611085	4699615	1.72	cps
Bromine	81-1	35431	36170	36675	36092	1.73	cps
Cadmium	108-1	833	833	783	817	3.54	cps
Cadmium	106-1	11498	11545	11558	11534	0.27	cps
Cadmium	111-1	18563	18693	18770	18675	0.56	cps
Calcium	43-1	3765027	3880601	3814335	3819988	1.52	cps
Calcium	44-1	60695916	61437182	62303779	61478959	1.31	cps
Carbon	12-1	5360414	5489806	5660313	5503511	2.73	cps
Carbon	12-2	44815	43832	44307	44318	1.11	cps
Chlorine	35-1	400023	424217	434029	419423	4.17	cps
Chlorine	35-2	1670	1783	1860	1771	5.40	cps
Chromium	52-2	35725	35838	35350	35638	0.72	cps
Cobalt	59-2	437388	438985	435270	437214	0.43	cps
Copper	63-2	229936	231137	231106	230726	0.30	cps
Dysprosium	156-1	205630	204490	205599	205240	0.32	cps
Dysprosium	156-2	54222	54514	53958	54231	0.51	cps
Erbium	164-1	157076	155770	158265	157037	0.79	cps
Erbium	164-2	50703	51573	51329	51201	0.88	cps
Gadolinium	160-1	150755	154254	154985	153331	1.47	cps
Gadolinium	160-2	60513	60737	59686	60312	0.92	cps
Holmium	165-1	19979693	19995231	19702199	19892374	0.83	cps
Holmium	165-2	6805532	6798476	6754642	6786217	0.41	cps
Indium	115-1	16490027	16655261	16940140	16695143	1.36	cps
Indium	115-2	1734853	1677346	1695654	1702618	1.73	cps
Iron	54-2	669429	670734	664399	668187	0.50	cps
Iron	56-2	12637734	12573351	12545725	12585603	0.38	cps
Iron	57-2	310853	310851	309633	310446	0.23	cps
Krypton	83-1	463	420	480	454	6.82	cps
Lead	206-1	116955	118580	118314	117950	0.74	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	97396	98478	97547	97807	0.60	cps
Lead	208-1	456187	458477	457513	457392	0.25	cps
Lithium	6-1	5221047	5088970	5111934	5140650	1.37	cps
Magnesium	24-2	2372935	2378505	2375701	2375714	0.12	cps
Manganese	55-2	7430772	7400755	7371669	7401066	0.40	cps
Molybdenum	94-1	3671	3891	3437	3666	6.19	cps
Molybdenum	95-1	1100	1177	1133	1137	3.38	cps
Molybdenum	96-1	1417	1227	1407	1350	7.92	cps
Molybdenum	97-1	333	380	323	346	8.75	cps
Molybdenum	98-1	930	927	950	936	1.35	cps
Neodymium	150-1	217908	218795	216228	217644	0.60	cps
Neodymium	150-2	53061	52974	53369	53135	0.39	cps
Nickel	60-2	98552	98666	98266	98495	0.21	cps
Phosphorus	31-2	3054	3077	3020	3050	0.93	cps
Potassium	39-2	1950083	1924376	1891982	1922147	1.51	cps
Rhodium	103-1	15263887	15201705	15252556	15239383	0.22	cps
Rhodium	103-2	5929163	5954489	5889747	5924466	0.55	cps
Scandium	45-1	10579281	10479326	10503213	10520606	0.50	cps
Scandium	45-2	199377	198147	196508	198011	0.73	cps
Selenium	82-1	257	267	247	257	3.89	cps
Selenium	77-2	220	227	237	228	3.68	cps
Selenium	78-2	173	177	177	176	1.10	cps
Silicon	28-1	98461265	100162942	101280315	99968174	1.42	cps
Silver	107-1	613	697	537	616	13.00	cps
Silver	109-1	413	390	437	413	5.65	cps
Sodium	23-2	1711106	1662499	1663305	1678970	1.66	cps
Strontium	86-1	1345025	1343409	1344705	1344380	0.06	cps
Strontium	88-1	12141991	11961431	12139622	12081015	0.86	cps
Sulfur	34-1	6273944	6238294	6285383	6265874	0.39	cps
Terbium	159-1	20849291	20518463	20758283	20708679	0.83	cps
Terbium	159-2	6711219	6634886	6578133	6641412	1.01	cps
Thallium	203-1	4031	3891	3844	3922	2.48	cps
Thallium	205-1	9243	9664	9160	9356	2.89	cps
Tin	118-1	3661	4081	3701	3814	6.08	cps
Titanium	47-1	4928	5124	4948	5000	2.17	cps
Uranium	238-1	35386	36118	36609	36038	1.71	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-24-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:50:10	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43559	42764	41935	42753	1.90	cps
Ytterbium	172-1	38439	38519	39027	38662	0.82	cps
Ytterbium	172-2	15462	15603	15342	15469	0.84	cps
Ytterbium	176-1	25675	26667	26179	26174	1.90	cps
Ytterbium	176-2	10674	10161	9954	10263	3.62	cps
Yttrium	89-1	33790445	33152679	33535039	33492721	0.96	cps
Yttrium	89-2	2415504	2416270	2428172	2419982	0.29	cps
Zinc	66-2	305612	305413	301032	304019	0.85	cps
Zirconium	90-1	8703	9076	9023	8934	2.26	cps
Zirconium	91-1	1890	2077	1947	1971	4.86	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	622518	630255	618085	623619	0.99	cps
Antimony	121-1	813	677	810	767	10.17	cps
Arsenic	75-2	2650	2710	2744	2701	1.75	cps
Barium	135-1	136647	136654	136122	136474	0.22	cps
Barium	137-1	236127	234027	235234	235129	0.45	cps
Beryllium	9-1	8944	9158	8939	9014	1.39	cps
Bismuth	209-1	11675892	11884980	12119847	11893573	1.87	cps
Bismuth	209-2	4657032	4758487	4656086	4690535	1.25	cps
Bromine	81-1	35395	35204	35532	35377	0.46	cps
Cadmium	108-1	603	603	583	597	1.94	cps
Cadmium	106-1	10791	10958	10628	10792	1.53	cps
Cadmium	111-1	15634	15704	15347	15562	1.22	cps
Calcium	43-1	4152816	4153347	4140622	4148928	0.17	cps
Calcium	44-1	68632759	66939767	67419579	67664035	1.29	cps
Carbon	12-1	5503203	5629241	5767223	5633222	2.34	cps
Carbon	12-2	45497	44895	45386	45259	0.71	cps
Chlorine	35-1	405066	420483	430354	418635	3.04	cps
Chlorine	35-2	1817	1870	1723	1803	4.12	cps
Chromium	52-2	20929	20061	20982	20657	2.50	cps
Cobalt	59-2	283352	285932	284919	284734	0.46	cps
Copper	63-2	104330	105599	105048	104992	0.61	cps
Dysprosium	156-1	97230	97489	97502	97407	0.16	cps
Dysprosium	156-2	25427	25251	25211	25296	0.46	cps
Erbium	164-1	75606	74852	74845	75101	0.58	cps
Erbium	164-2	23851	24185	24155	24064	0.77	cps
Gadolinium	160-1	72716	72335	73105	72719	0.53	cps
Gadolinium	160-2	27983	28801	28360	28381	1.44	cps
Holmium	165-1	19722935	19533103	19871737	19709258	0.86	cps
Holmium	165-2	6733215	6818887	6805014	6785705	0.68	cps
Indium	115-1	16565784	16600372	16582375	16582843	0.10	cps
Indium	115-2	1721406	1721604	1709861	1717624	0.39	cps
Iron	54-2	656786	655383	656219	656129	0.11	cps
Iron	56-2	12344947	12305371	12276040	12308786	0.28	cps
Iron	57-2	305030	304392	303345	304256	0.28	cps
Krypton	83-1	307	387	357	350	11.55	cps
Lead	206-1	80806	79877	79734	80139	0.73	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	65712	65240	65712	65555	0.42	cps
Lead	208-1	308141	308761	309371	308758	0.20	cps
Lithium	6-1	5062385	5035258	5029040	5042228	0.35	cps
Magnesium	24-2	3049919	3105472	3054099	3069830	1.01	cps
Manganese	55-2	5390742	5393601	5478552	5420965	0.92	cps
Molybdenum	94-1	3377	3164	3144	3228	4.01	cps
Molybdenum	95-1	863	833	700	799	10.88	cps
Molybdenum	96-1	1263	1273	1197	1245	3.35	cps
Molybdenum	97-1	330	287	293	303	7.69	cps
Molybdenum	98-1	727	680	643	683	6.11	cps
Neodymium	150-1	101543	101987	102971	102167	0.72	cps
Neodymium	150-2	25167	25030	24566	24921	1.26	cps
Nickel	60-2	65500	65543	65229	65424	0.26	cps
Phosphorus	31-2	3074	2977	3074	3041	1.84	cps
Potassium	39-2	1792693	1814753	1774695	1794047	1.12	cps
Rhodium	103-1	15037004	15518438	15249966	15268469	1.58	cps
Rhodium	103-2	5918486	5970417	5914075	5934326	0.53	cps
Scandium	45-1	10681819	10535605	10396563	10537995	1.35	cps
Scandium	45-2	197140	195212	195505	195952	0.53	cps
Selenium	82-1	160	40	143	114	56.80	cps
Selenium	77-2	83	100	107	97	12.44	cps
Selenium	78-2	93	100	73	89	15.61	cps
Silicon	28-1	71497717	71259937	70292117	71016591	0.90	cps
Silver	107-1	573	560	503	546	6.81	cps
Silver	109-1	300	343	360	334	9.26	cps
Sodium	23-2	1555546	1571675	1521674	1549632	1.65	cps
Strontium	86-1	1457077	1385383	1451203	1431221	2.78	cps
Strontium	88-1	12662963	12448260	12455886	12522370	0.97	cps
Sulfur	34-1	6061415	6013404	5973813	6016211	0.73	cps
Terbium	159-1	20345135	20247148	20280149	20290811	0.25	cps
Terbium	159-2	6595742	6613644	6680106	6629831	0.67	cps
Thallium	203-1	3167	2934	3080	3060	3.85	cps
Thallium	205-1	6942	7222	7022	7062	2.04	cps
Tin	118-1	3691	3514	3337	3514	5.03	cps
Titanium	47-1	4341	4427	4277	4348	1.73	cps
Uranium	238-1	16060	15867	16361	16096	1.55	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-25-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:53:24	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30920	30282	31087	30763	1.38	cps
Ytterbium	172-1	19454	19174	19568	19399	1.05	cps
Ytterbium	172-2	8063	7876	7799	7912	1.71	cps
Ytterbium	176-1	14184	13564	14081	13943	2.39	cps
Ytterbium	176-2	5078	5278	5501	5286	4.01	cps
Yttrium	89-1	31180367	31252044	31424294	31285568	0.40	cps
Yttrium	89-2	2359306	2325996	2336450	2340584	0.73	cps
Zinc	66-2	272996	274463	270718	272726	0.69	cps
Zirconium	90-1	8186	8233	8489	8303	1.97	cps
Zirconium	91-1	1787	1650	1917	1785	7.47	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	583278	583472	590832	585861	0.74	cps
Antimony	121-1	697	693	733	708	3.14	cps
Arsenic	75-2	1710	1643	1937	1763	8.72	cps
Barium	135-1	130377	131706	130650	130911	0.54	cps
Barium	137-1	226338	229250	230962	228850	1.02	cps
Beryllium	9-1	10158	9983	10389	10176	2.00	cps
Bismuth	209-1	11951295	12184521	11901084	12012300	1.26	cps
Bismuth	209-2	4689043	4731403	4723637	4714694	0.48	cps
Bromine	81-1	35164	36310	36534	36003	2.04	cps
Cadmium	108-1	760	673	763	732	6.97	cps
Cadmium	106-1	10861	10724	10971	10852	1.14	cps
Cadmium	111-1	16768	16983	17029	16926	0.82	cps
Calcium	43-1	3938276	3969174	3917855	3941768	0.66	cps
Calcium	44-1	63939972	63570082	63490756	63666937	0.38	cps
Carbon	12-1	5397342	5427976	5592834	5472717	1.92	cps
Carbon	12-2	43859	44186	43989	44011	0.37	cps
Chlorine	35-1	420185	449978	456442	442202	4.37	cps
Chlorine	35-2	1900	1733	1943	1859	5.96	cps
Chromium	52-2	15719	15445	15859	15674	1.34	cps
Cobalt	59-2	370910	372000	370291	371067	0.23	cps
Copper	63-2	107842	107973	109021	108279	0.60	cps
Dysprosium	156-1	108848	110398	110522	109923	0.85	cps
Dysprosium	156-2	28601	28918	28798	28772	0.56	cps
Erbium	164-1	81850	83268	83339	82819	1.01	cps
Erbium	164-2	26446	27211	26723	26794	1.45	cps
Gadolinium	160-1	79280	81865	81688	80945	1.78	cps
Gadolinium	160-2	32202	32232	31851	32095	0.66	cps
Holmium	165-1	20089908	19958994	19588568	19879157	1.31	cps
Holmium	165-2	6812865	6823578	6783126	6806523	0.31	cps
Indium	115-1	16984204	16593400	16667557	16748387	1.24	cps
Indium	115-2	1745338	1732683	1716377	1731466	0.84	cps
Iron	54-2	395127	393501	393908	394178	0.21	cps
Iron	56-2	7339199	7295194	7467023	7367139	1.21	cps
Iron	57-2	179785	182998	181668	181484	0.89	cps
Krypton	83-1	420	327	327	358	15.06	cps
Lead	206-1	66402	67323	68215	67314	1.35	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	54980	55752	55823	55518	0.84	cps
Lead	208-1	256805	261861	260435	259700	1.00	cps
Lithium	6-1	5161691	5178698	5118152	5152847	0.61	cps
Magnesium	24-2	2587322	2587093	2619680	2598032	0.72	cps
Manganese	55-2	6842885	6757066	6894010	6831320	1.01	cps
Molybdenum	94-1	2840	3147	2897	2961	5.51	cps
Molybdenum	95-1	953	983	870	936	6.28	cps
Molybdenum	96-1	1143	1050	980	1058	7.75	cps
Molybdenum	97-1	313	263	290	289	8.66	cps
Molybdenum	98-1	690	747	713	717	3.97	cps
Neodymium	150-1	114809	115921	117159	115963	1.01	cps
Neodymium	150-2	28383	28530	27829	28248	1.31	cps
Nickel	60-2	72661	72540	72671	72624	0.10	cps
Phosphorus	31-2	1313	1450	1443	1402	5.50	cps
Potassium	39-2	1968510	2030065	2072455	2023677	2.58	cps
Rhodium	103-1	15384376	15111960	15303390	15266575	0.92	cps
Rhodium	103-2	6024098	5972290	5935096	5977161	0.75	cps
Scandium	45-1	10454737	10555197	10666297	10558744	1.00	cps
Scandium	45-2	197535	199302	198606	198481	0.45	cps
Selenium	82-1	253	167	207	209	20.76	cps
Selenium	77-2	133	87	113	111	21.07	cps
Selenium	78-2	77	113	110	100	20.27	cps
Silicon	28-1	78955850	80613350	80833074	80134092	1.28	cps
Silver	107-1	590	663	587	613	7.07	cps
Silver	109-1	417	417	470	434	7.09	cps
Sodium	23-2	1716598	1755440	1763744	1745261	1.44	cps
Strontium	86-1	1522976	1516145	1528222	1522448	0.40	cps
Strontium	88-1	12948622	13124593	12798383	12957199	1.26	cps
Sulfur	34-1	5545951	5656110	5595771	5599277	0.99	cps
Terbium	159-1	20556234	20392733	20682254	20543740	0.71	cps
Terbium	159-2	6719614	6652733	6687770	6686705	0.50	cps
Thallium	203-1	3467	3114	3397	3326	5.63	cps
Thallium	205-1	7939	8073	7926	7979	1.02	cps
Tin	118-1	4087	3971	3891	3983	2.48	cps
Titanium	47-1	5371	5394	5431	5399	0.56	cps
Uranium	238-1	16481	17088	16905	16825	1.85	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-26-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 15:56:35	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17528	17437	17968	17644	1.61	cps
Ytterbium	172-1	20416	20396	20523	20445	0.33	cps
Ytterbium	172-2	8263	8256	8179	8233	0.56	cps
Ytterbium	176-1	15109	15015	15586	15237	2.01	cps
Ytterbium	176-2	5625	5555	5615	5598	0.68	cps
Yttrium	89-1	32285245	32170065	31956650	32137320	0.52	cps
Yttrium	89-2	2334919	2353080	2322401	2336800	0.66	cps
Zinc	66-2	358792	365706	364745	363081	1.03	cps
Zirconium	90-1	7075	7192	7289	7185	1.49	cps
Zirconium	91-1	1407	1577	1560	1515	6.19	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3716368	3624837	3708082	3683096	1.37	cps
Antimony	121-1	11535650	11596229	11597881	11576587	0.31	cps
Arsenic	75-2	225147	225743	226549	225813	0.31	cps
Barium	135-1	13691479	13941451	13937580	13856837	1.03	cps
Barium	137-1	23791168	23883800	24162780	23945916	0.81	cps
Beryllium	9-1	2365861	2421153	2393401	2393472	1.16	cps
Bismuth	209-1	10311130	10394488	10332512	10346044	0.42	cps
Bismuth	209-2	4061531	3972042	4094193	4042589	1.56	cps
Bromine	81-1	29434	29524	29107	29355	0.75	cps
Cadmium	108-1	215424	217127	218657	217070	0.74	cps
Cadmium	106-1	316359	322349	321072	319927	0.99	cps
Cadmium	111-1	2830661	2860371	2827243	2839425	0.64	cps
Calcium	43-1	16181263	16101881	16299211	16194118	0.61	cps
Calcium	44-1	263736636	261563129	266628156	263975974	0.96	cps
Carbon	12-1	3891955	3916634	3928461	3912350	0.48	cps
Carbon	12-2	35242	34925	34140	34769	1.63	cps
Chlorine	35-1	224932	223835	219868	222878	1.20	cps
Chlorine	35-2	910	850	923	894	4.37	cps
Chromium	52-2	2264240	2284583	2240292	2263038	0.98	cps
Cobalt	59-2	4143896	4137569	4058149	4113205	1.16	cps
Copper	63-2	31609830	31389090	31563215	31520711	0.37	cps
Dysprosium	156-1	737	707	690	711	3.33	cps
Dysprosium	156-2	157	147	157	153	3.77	cps
Erbium	164-1	673	687	743	701	5.30	cps
Erbium	164-2	223	217	223	221	1.74	cps
Gadolinium	160-1	543	567	487	532	7.73	cps
Gadolinium	160-2	207	273	177	219	22.61	cps
Holmium	165-1	18613348	18747586	18695407	18685447	0.36	cps
Holmium	165-2	6342836	6430817	6354732	6376128	0.75	cps
Indium	115-1	14898185	14418529	14718489	14678401	1.65	cps
Indium	115-2	1424351	1428887	1435990	1429743	0.41	cps
Iron	54-2	22959760	23183811	22748970	22964180	0.95	cps
Iron	56-2	424362620	423649487	422449380	423487163	0.23	cps
Iron	57-2	10707108	10895438	10576050	10726199	1.50	cps
Krypton	83-1	270	247	267	261	4.83	cps
Lead	206-1	39861239	40756760	42063049	40893683	2.71	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	34538565	35199376	35689285	35142409	1.64	cps
Lead	208-1	159212443	162203288	165155007	162190246	1.83	cps
Lithium	6-1	4538814	4573536	4511301	4541217	0.69	cps
Magnesium	24-2	61995179	61279124	61897222	61723842	0.63	cps
Manganese	55-2	9441243	9467864	9250268	9386459	1.26	cps
Molybdenum	94-1	39711039	40508103	40978883	40399342	1.59	cps
Molybdenum	95-1	57730374	58691177	58494117	58305223	0.87	cps
Molybdenum	96-1	62867567	63346171	63390071	63201270	0.46	cps
Molybdenum	97-1	35665701	35943984	36020143	35876609	0.52	cps
Molybdenum	98-1	92919392	92990295	93889835	93266508	0.58	cps
Neodymium	150-1	1360	1370	1333	1355	1.40	cps
Neodymium	150-2	60	107	110	92	30.31	cps
Nickel	60-2	1051306	1058618	1052504	1054143	0.37	cps
Phosphorus	31-2	36897	36523	36051	36490	1.16	cps
Potassium	39-2	21300721	21142900	21450688	21298103	0.72	cps
Rhodium	103-1	13044078	13087647	13117156	13082960	0.28	cps
Rhodium	103-2	5080067	5084162	5118958	5094396	0.42	cps
Scandium	45-1	9279779	9392449	9608149	9426792	1.77	cps
Scandium	45-2	182986	183709	184114	183603	0.31	cps
Selenium	82-1	164257	165730	166981	165656	0.82	cps
Selenium	77-2	2944	2927	2874	2915	1.25	cps
Selenium	78-2	9533	9854	9747	9711	1.68	cps
Silicon	28-1	67574132	69366559	68235899	68392197	1.33	cps
Silver	107-1	13706734	13802949	13752557	13754080	0.35	cps
Silver	109-1	12720591	12811780	12962750	12831707	0.95	cps
Sodium	23-2	119168075	121459895	119842972	120156980	0.98	cps
Strontium	86-1	3780280	3810008	3792154	3794147	0.39	cps
Strontium	88-1	32448946	32536955	32464398	32483433	0.14	cps
Sulfur	34-1	1356399	1349872	1325071	1343781	1.23	cps
Terbium	159-1	18918763	19095645	18995264	19003224	0.47	cps
Terbium	159-2	6158069	6137174	6116097	6137113	0.34	cps
Thallium	203-1	9977474	9945340	10332956	10085257	2.13	cps
Thallium	205-1	23467645	23661795	24223526	23784322	1.65	cps
Tin	118-1	9332199	9378519	9371296	9360671	0.27	cps
Titanium	47-1	15116432	15381630	15560667	15352910	1.46	cps
Uranium	238-1	31892334	32549289	32278212	32239945	1.02	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 15:59:45	DataFile Name :	032CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1735211	1744351	1751748	1743770	0.48	cps
Ytterbium	172-1	1010	940	1040	997	5.15	cps
Ytterbium	172-2	307	377	360	348	10.52	cps
Ytterbium	176-1	52203	52527	51875	52202	0.62	cps
Ytterbium	176-2	17325	17221	17508	17352	0.84	cps
Yttrium	89-1	27901262	27779685	27937809	27872919	0.30	cps
Yttrium	89-2	2065190	2036100	2084803	2062031	1.19	cps
Zinc	66-2	3684809	3624284	3566173	3625089	1.64	cps
Zirconium	90-1	20102652	20381483	20684821	20389652	1.43	cps
Zirconium	91-1	4484556	4572726	4539766	4532349	0.98	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	137	160	147	148	7.92	cps
Antimony	121-1	1190	1060	970	1073	10.31	cps
Arsenic	75-2	10	10	0	7	86.60	cps
Barium	135-1	213	193	153	187	16.37	cps
Barium	137-1	323	267	287	292	9.84	cps
Beryllium	9-1	269	261	243	258	5.20	cps
Bismuth	209-1	12354500	12196736	12343066	12298101	0.72	cps
Bismuth	209-2	4781904	4801083	4802423	4795137	0.24	cps
Bromine	81-1	30971	30219	30176	30455	1.47	cps
Cadmium	108-1	20	40	37	32	33.25	cps
Cadmium	106-1	9437	9603	9680	9573	1.30	cps
Cadmium	111-1	6652	6748	6790	6730	1.06	cps
Calcium	43-1	867	957	873	899	5.58	cps
Calcium	44-1	28818	28959	28718	28832	0.42	cps
Carbon	12-1	3839458	3814093	3855671	3836407	0.55	cps
Carbon	12-2	30244	30017	28832	29698	2.55	cps
Chlorine	35-1	161233	158666	158882	159594	0.89	cps
Chlorine	35-2	590	673	650	638	6.74	cps
Chromium	52-2	943	830	920	898	6.67	cps
Cobalt	59-2	117	83	83	94	20.38	cps
Copper	63-2	1557	1510	1553	1540	1.69	cps
Dysprosium	156-1	17	20	17	18	10.81	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	133	127	157	139	11.34	cps
Erbium	164-2	40	60	37	46	27.70	cps
Gadolinium	160-1	97	127	90	104	18.70	cps
Gadolinium	160-2	23	23	53	33	51.97	cps
Holmium	165-1	19901031	19575933	19754800	19743921	0.82	cps
Holmium	165-2	6785675	6830579	6872159	6829471	0.63	cps
Indium	115-1	16709225	16770890	16892016	16790710	0.55	cps
Indium	115-2	1775206	1790081	1761034	1775441	0.82	cps
Iron	54-2	763	683	663	703	7.52	cps
Iron	56-2	8006	8727	7689	8140	6.54	cps
Iron	57-2	180	203	187	190	6.33	cps
Krypton	83-1	300	217	253	257	16.27	cps
Lead	206-1	1530	1640	1443	1538	6.41	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1337	1120	1273	1243	8.96	cps
Lead	208-1	6287	5871	5537	5898	6.37	cps
Lithium	6-1	5185312	5099247	5253067	5179209	1.49	cps
Magnesium	24-2	777	667	683	709	8.36	cps
Manganese	55-2	4651	4651	4447	4583	2.56	cps
Molybdenum	94-1	1433	1273	1353	1353	5.91	cps
Molybdenum	95-1	837	770	780	796	4.52	cps
Molybdenum	96-1	1050	1040	947	1012	5.63	cps
Molybdenum	97-1	513	423	437	458	10.61	cps
Molybdenum	98-1	1407	1297	1123	1276	11.20	cps
Neodymium	150-1	17	10	17	14	26.66	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	297	227	310	278	16.12	cps
Phosphorus	31-2	80	90	113	94	18.11	cps
Potassium	39-2	15348	15081	15298	15243	0.93	cps
Rhodium	103-1	15819600	15676518	15571305	15689141	0.79	cps
Rhodium	103-2	6104541	6163560	6123041	6130381	0.49	cps
Scandium	45-1	10722211	10691095	10613287	10675531	0.53	cps
Scandium	45-2	196424	199429	197637	197830	0.76	cps
Selenium	82-1	-43	57	30	14	358.56	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	13	13	7	11	34.61	cps
Silicon	28-1	520227	501954	509504	510562	1.80	cps
Silver	107-1	737	707	717	720	2.12	cps
Silver	109-1	620	597	550	589	6.05	cps
Sodium	23-2	43174	42549	42234	42652	1.12	cps
Strontium	86-1	520	430	467	472	9.58	cps
Strontium	88-1	637	683	577	632	8.46	cps
Sulfur	34-1	537412	535815	535305	536177	0.20	cps
Terbium	159-1	20550522	20186639	20449850	20395671	0.92	cps
Terbium	159-2	6620031	6575943	6746165	6647380	1.33	cps
Thallium	203-1	447	547	477	490	10.47	cps
Thallium	205-1	1147	1157	1157	1153	0.50	cps
Tin	118-1	3214	3210	3430	3285	3.84	cps
Titanium	47-1	447	300	357	368	20.11	cps
Uranium	238-1	307	293	283	294	3.98	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:05:22	DataFile Name :	033CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	27	10	17	52.93	cps
Ytterbium	172-1	133	123	123	127	4.56	cps
Ytterbium	172-2	50	53	57	53	6.25	cps
Ytterbium	176-1	2364	2304	2174	2280	4.26	cps
Ytterbium	176-2	640	637	663	647	2.25	cps
Yttrium	89-1	30327358	29873308	30161872	30120846	0.76	cps
Yttrium	89-2	2208606	2256165	2232810	2232527	1.07	cps
Zinc	66-2	363	413	380	386	6.60	cps
Zirconium	90-1	2520	2760	2634	2638	4.55	cps
Zirconium	91-1	550	533	583	556	4.58	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	488164	488534	491142	489280	0.33	cps
Antimony	121-1	900	983	1100	994	10.10	cps
Arsenic	75-2	2124	2244	2077	2148	4.00	cps
Barium	135-1	145353	144411	145953	145239	0.54	cps
Barium	137-1	250650	251224	251152	251009	0.12	cps
Beryllium	9-1	9278	9410	9205	9298	1.11	cps
Bismuth	209-1	12235278	11763178	11842588	11947015	2.12	cps
Bismuth	209-2	4684096	4707355	4673452	4688301	0.37	cps
Bromine	81-1	34636	34205	34148	34330	0.78	cps
Cadmium	108-1	803	710	773	762	6.25	cps
Cadmium	106-1	11001	10814	11038	10951	1.09	cps
Cadmium	111-1	17276	17227	17196	17233	0.23	cps
Calcium	43-1	4407152	4498253	4534054	4479820	1.46	cps
Calcium	44-1	72137326	72777717	73159736	72691593	0.71	cps
Carbon	12-1	5606272	5794934	5839576	5746927	2.15	cps
Carbon	12-2	45921	45072	46039	45677	1.15	cps
Chlorine	35-1	430393	462221	480556	457723	5.55	cps
Chlorine	35-2	2114	2027	1943	2028	4.19	cps
Chromium	52-2	14734	14638	14501	14624	0.80	cps
Cobalt	59-2	357660	355768	354191	355873	0.49	cps
Copper	63-2	86079	86904	87326	86770	0.73	cps
Dysprosium	156-1	80226	79867	79954	80015	0.23	cps
Dysprosium	156-2	21250	20923	20756	20977	1.20	cps
Erbium	164-1	57822	59204	59877	58968	1.78	cps
Erbium	164-2	19207	18697	19832	19245	2.95	cps
Gadolinium	160-1	57108	58166	58441	57905	1.22	cps
Gadolinium	160-2	23073	22609	23020	22901	1.11	cps
Holmium	165-1	20021880	19851902	20150956	20008246	0.75	cps
Holmium	165-2	6843971	6741564	6858416	6814651	0.93	cps
Indium	115-1	16798299	16778734	16736179	16771071	0.19	cps
Indium	115-2	1767878	1702119	1729764	1733254	1.90	cps
Iron	54-2	395843	398181	395355	396460	0.38	cps
Iron	56-2	7517464	7486158	7342401	7448674	1.25	cps
Iron	57-2	182573	183144	183702	183140	0.31	cps
Krypton	83-1	300	340	370	337	10.43	cps
Lead	206-1	68098	69160	68064	68440	0.91	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	56174	57333	56077	56528	1.24	cps
Lead	208-1	264068	266191	264638	264965	0.41	cps
Lithium	6-1	5362598	5305474	5230948	5299673	1.25	cps
Magnesium	24-2	2931868	2942395	2881591	2918618	1.11	cps
Manganese	55-2	6775582	6915085	6851258	6847309	1.02	cps
Molybdenum	94-1	3164	3250	3130	3182	1.95	cps
Molybdenum	95-1	1040	1153	1043	1079	5.98	cps
Molybdenum	96-1	1193	1233	1273	1233	3.24	cps
Molybdenum	97-1	407	413	410	410	0.81	cps
Molybdenum	98-1	963	940	930	944	1.81	cps
Neodymium	150-1	81781	84403	83363	83182	1.59	cps
Neodymium	150-2	20469	20329	19958	20252	1.30	cps
Nickel	60-2	71059	70721	71264	71015	0.39	cps
Phosphorus	31-2	2100	1990	2067	2052	2.75	cps
Potassium	39-2	2245592	2227696	2238287	2237192	0.40	cps
Rhodium	103-1	15534792	15385367	15099064	15339741	1.44	cps
Rhodium	103-2	5988480	5899635	5917121	5935079	0.79	cps
Scandium	45-1	10681117	10610634	10559955	10617235	0.57	cps
Scandium	45-2	197374	198718	196904	197665	0.48	cps
Selenium	82-1	217	77	40	111	83.91	cps
Selenium	77-2	90	107	83	93	12.88	cps
Selenium	78-2	80	73	87	80	8.34	cps
Silicon	28-1	69619182	70604699	69270881	69831587	0.99	cps
Silver	107-1	663	687	707	686	3.16	cps
Silver	109-1	447	480	517	481	7.28	cps
Sodium	23-2	1813776	1858894	1803782	1825484	1.61	cps
Strontium	86-1	1674523	1714954	1683298	1690925	1.26	cps
Strontium	88-1	14729994	14676427	14476926	14627782	0.91	cps
Sulfur	34-1	5874773	6026726	6012505	5971334	1.41	cps
Terbium	159-1	20659661	20534203	20707567	20633810	0.43	cps
Terbium	159-2	6721493	6723427	6617604	6687508	0.91	cps
Thallium	203-1	3541	3564	3370	3492	3.02	cps
Thallium	205-1	8406	8269	8516	8397	1.47	cps
Tin	118-1	3764	3597	3334	3565	6.09	cps
Titanium	47-1	3157	3547	3520	3408	6.39	cps
Uranium	238-1	13030	13317	13114	13154	1.12	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-27-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:09:08	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	19183	19340	19483	19335	0.78	cps
Ytterbium	172-1	15279	15396	15242	15306	0.52	cps
Ytterbium	172-2	6131	5951	5658	5914	4.04	cps
Ytterbium	176-1	11425	11458	11822	11568	1.90	cps
Ytterbium	176-2	4117	4187	4171	4158	0.88	cps
Yttrium	89-1	32080169	32026747	31696098	31934338	0.65	cps
Yttrium	89-2	2280901	2328260	2306139	2305100	1.03	cps
Zinc	66-2	293759	299679	296457	296632	1.00	cps
Zirconium	90-1	8336	8713	8543	8530	2.21	cps
Zirconium	91-1	1753	1753	1687	1731	2.22	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1360273	1310366	1320153	1330264	1.99	cps
Antimony	121-1	797	803	847	816	3.33	cps
Arsenic	75-2	2827	2804	2557	2729	5.48	cps
Barium	135-1	130901	132561	132743	132068	0.77	cps
Barium	137-1	229603	228993	231763	230120	0.63	cps
Beryllium	9-1	14318	14242	14249	14270	0.30	cps
Bismuth	209-1	12105736	12027793	11981354	12038294	0.52	cps
Bismuth	209-2	4473125	4704694	4666868	4614896	2.69	cps
Bromine	81-1	35966	35846	35558	35790	0.59	cps
Cadmium	108-1	850	837	923	870	5.36	cps
Cadmium	106-1	11845	12346	11788	11993	2.56	cps
Cadmium	111-1	19625	20122	19297	19681	2.11	cps
Calcium	43-1	2993877	3064654	3045182	3034571	1.20	cps
Calcium	44-1	49950529	50656889	49591753	50066390	1.08	cps
Carbon	12-1	5291018	5460576	5426085	5392560	1.66	cps
Carbon	12-2	43180	43474	42809	43154	0.77	cps
Chlorine	35-1	354363	368412	374862	365879	2.86	cps
Chlorine	35-2	1583	1553	1650	1596	3.10	cps
Chromium	52-2	40838	39936	39963	40245	1.28	cps
Cobalt	59-2	473629	476649	472832	474370	0.42	cps
Copper	63-2	403571	403748	397885	401735	0.83	cps
Dysprosium	156-1	342993	344042	341951	342995	0.30	cps
Dysprosium	156-2	89953	90782	89426	90054	0.76	cps
Erbium	164-1	260767	259010	265674	261817	1.32	cps
Erbium	164-2	85214	84714	84127	84685	0.64	cps
Gadolinium	160-1	255207	258445	255671	256441	0.68	cps
Gadolinium	160-2	99998	100713	101442	100718	0.72	cps
Holmium	165-1	20347419	20179240	19956147	20160935	0.97	cps
Holmium	165-2	6435416	6802576	6847518	6695170	3.38	cps
Indium	115-1	16913566	16760794	16770517	16814959	0.51	cps
Indium	115-2	1606990	1730279	1717222	1684830	4.02	cps
Iron	54-2	617607	612496	608138	612747	0.77	cps
Iron	56-2	11586636	11369512	11335449	11430532	1.19	cps
Iron	57-2	283762	279462	281814	281679	0.76	cps
Krypton	83-1	570	563	643	592	7.49	cps
Lead	206-1	131805	133186	132917	132636	0.55	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	109010	109283	108684	108992	0.28	cps
Lead	208-1	511075	513845	513917	512946	0.32	cps
Lithium	6-1	5229049	5170111	5220776	5206645	0.61	cps
Magnesium	24-2	1990628	1961392	1966478	1972833	0.79	cps
Manganese	55-2	7327006	7448657	7325000	7366888	0.96	cps
Molybdenum	94-1	3514	3220	3467	3400	4.64	cps
Molybdenum	95-1	1130	1027	1053	1070	5.01	cps
Molybdenum	96-1	1287	1197	1220	1235	3.78	cps
Molybdenum	97-1	370	380	370	373	1.55	cps
Molybdenum	98-1	820	907	927	884	6.41	cps
Neodymium	150-1	367078	369663	368492	368411	0.35	cps
Neodymium	150-2	88127	87674	87878	87893	0.26	cps
Nickel	60-2	109134	107250	107724	108036	0.91	cps
Phosphorus	31-2	2844	2924	2864	2877	1.45	cps
Potassium	39-2	1451011	1466365	1463926	1460434	0.56	cps
Rhodium	103-1	15264304	15147430	15478380	15296705	1.10	cps
Rhodium	103-2	5568745	5952879	5920954	5814193	3.67	cps
Scandium	45-1	10943271	10575562	10669748	10729527	1.78	cps
Scandium	45-2	185356	197286	196667	193103	3.48	cps
Selenium	82-1	500	523	267	430	33.01	cps
Selenium	77-2	367	350	360	359	2.34	cps
Selenium	78-2	233	270	220	241	10.74	cps
Silicon	28-1	117653555	115931222	113539228	115708002	1.79	cps
Silver	107-1	720	643	760	708	8.38	cps
Silver	109-1	467	520	517	501	5.96	cps
Sodium	23-2	1522122	1446346	1452758	1473742	2.85	cps
Strontium	86-1	1040966	1050682	1049744	1047130	0.51	cps
Strontium	88-1	9429049	9387781	9385578	9400803	0.26	cps
Sulfur	34-1	6014377	5954100	6009009	5992495	0.56	cps
Terbium	159-1	20907423	21178976	20871757	20986052	0.80	cps
Terbium	159-2	6168324	6732479	6621728	6507511	4.59	cps
Thallium	203-1	3761	4004	3691	3818	4.31	cps
Thallium	205-1	9083	8893	9157	9044	1.50	cps
Tin	118-1	4044	3911	4137	4031	2.83	cps
Titanium	47-1	4938	4978	5051	4989	1.15	cps
Uranium	238-1	71714	71151	71155	71340	0.45	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:12:18	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	49783	49445	49228	49485	0.57	cps
Ytterbium	172-1	64419	64975	64901	64765	0.47	cps
Ytterbium	172-2	25404	25792	25725	25640	0.81	cps
Ytterbium	176-1	42117	42063	41284	41822	1.11	cps
Ytterbium	176-2	16354	16220	16277	16283	0.41	cps
Yttrium	89-1	35508646	35589089	35509897	35535877	0.13	cps
Yttrium	89-2	2422928	2467407	2502481	2464272	1.62	cps
Zinc	66-2	272216	269125	272550	271297	0.70	cps
Zirconium	90-1	8156	8426	8743	8442	3.48	cps
Zirconium	91-1	1703	1843	1803	1783	4.04	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1295907	1259682	1270947	1275512	1.45	cps
Antimony	121-1	720	717	723	720	0.46	cps
Arsenic	75-2	2464	2480	2444	2462	0.75	cps
Barium	135-1	127775	128812	128425	128337	0.41	cps
Barium	137-1	224770	223218	224899	224296	0.42	cps
Beryllium	9-1	13919	14008	13702	13876	1.14	cps
Bismuth	209-1	12051617	11972384	12045832	12023278	0.37	cps
Bismuth	209-2	4713032	4582878	4627012	4640974	1.43	cps
Bromine	81-1	35231	35321	35368	35307	0.20	cps
Cadmium	108-1	950	840	850	880	6.91	cps
Cadmium	106-1	12139	11935	11939	12004	0.97	cps
Cadmium	111-1	19454	19472	19310	19412	0.46	cps
Calcium	43-1	3061092	3045406	2901630	3002709	2.93	cps
Calcium	44-1	48957164	48732181	47580146	48423164	1.53	cps
Carbon	12-1	5226264	5374257	5398432	5332984	1.75	cps
Carbon	12-2	42682	42902	42919	42835	0.31	cps
Chlorine	35-1	340974	357383	363465	353941	3.29	cps
Chlorine	35-2	1573	1397	1493	1488	5.95	cps
Chromium	52-2	38712	39588	39698	39333	1.37	cps
Cobalt	59-2	460950	459500	460738	460396	0.17	cps
Copper	63-2	387080	390895	389344	389106	0.49	cps
Dysprosium	156-1	332159	333933	333455	333182	0.28	cps
Dysprosium	156-2	87578	87128	86360	87022	0.71	cps
Erbium	164-1	253181	253582	256088	254283	0.62	cps
Erbium	164-2	81618	82302	81662	81861	0.47	cps
Gadolinium	160-1	250394	252417	249185	250665	0.65	cps
Gadolinium	160-2	95583	96989	96731	96434	0.78	cps
Holmium	165-1	20455393	20141589	20083241	20226741	0.99	cps
Holmium	165-2	6815839	6713044	6767000	6765294	0.76	cps
Indium	115-1	16832980	16817967	16512304	16721084	1.08	cps
Indium	115-2	1706776	1690808	1679835	1692473	0.80	cps
Iron	54-2	585745	591982	587882	588537	0.54	cps
Iron	56-2	11068712	11081218	10955497	11035142	0.63	cps
Iron	57-2	274894	274104	270631	273210	0.83	cps
Krypton	83-1	600	537	573	570	5.58	cps
Lead	206-1	128388	130645	129337	129457	0.88	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	105602	107115	107736	106818	1.03	cps
Lead	208-1	493623	502035	500850	498836	0.91	cps
Lithium	6-1	5294905	5332779	5293507	5307064	0.42	cps
Magnesium	24-2	1955148	1907955	1933113	1932072	1.22	cps
Manganese	55-2	7023212	7174959	7048980	7082384	1.15	cps
Molybdenum	94-1	3037	3147	3324	3169	4.56	cps
Molybdenum	95-1	947	963	920	943	2.32	cps
Molybdenum	96-1	1190	1217	1243	1217	2.19	cps
Molybdenum	97-1	297	387	317	333	14.18	cps
Molybdenum	98-1	883	803	893	860	5.74	cps
Neodymium	150-1	358121	357134	358948	358068	0.25	cps
Neodymium	150-2	84897	84799	85899	85198	0.71	cps
Nickel	60-2	104735	104165	104645	104515	0.29	cps
Phosphorus	31-2	2854	2730	3000	2861	4.72	cps
Potassium	39-2	1454448	1464020	1455254	1457908	0.36	cps
Rhodium	103-1	15478519	15324332	15151201	15318017	1.07	cps
Rhodium	103-2	5907617	5935114	5829274	5890668	0.93	cps
Scandium	45-1	10698042	10577077	10435411	10570177	1.24	cps
Scandium	45-2	194238	196551	194184	194991	0.69	cps
Selenium	82-1	387	450	433	423	7.76	cps
Selenium	77-2	403	433	413	417	3.67	cps
Selenium	78-2	247	310	257	271	12.56	cps
Silicon	28-1	110083755	110670388	110378508	110377551	0.27	cps
Silver	107-1	603	667	673	648	5.96	cps
Silver	109-1	443	477	440	453	4.47	cps
Sodium	23-2	1436566	1404654	1421181	1420800	1.12	cps
Strontium	86-1	1015448	1013482	1017476	1015468	0.20	cps
Strontium	88-1	9148830	9093995	8987661	9076829	0.90	cps
Sulfur	34-1	5814041	5878331	5895075	5862482	0.73	cps
Terbium	159-1	21180244	20814531	20692463	20895746	1.21	cps
Terbium	159-2	6622276	6471287	6606582	6566715	1.26	cps
Thallium	203-1	3751	3714	4014	3826	4.28	cps
Thallium	205-1	8860	8813	9057	8910	1.45	cps
Tin	118-1	3997	4061	4091	4050	1.18	cps
Titanium	47-1	5131	4954	4938	5008	2.14	cps
Uranium	238-1	69438	70578	69928	69981	0.82	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:15:32	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47361	47418	47830	47536	0.54	cps
Ytterbium	172-1	62932	63501	64332	63588	1.11	cps
Ytterbium	172-2	24810	24690	24934	24811	0.49	cps
Ytterbium	176-1	40910	40371	40963	40748	0.80	cps
Ytterbium	176-2	15953	16147	15953	16018	0.70	cps
Yttrium	89-1	35514503	34588947	34587451	34896967	1.53	cps
Yttrium	89-2	2485569	2505927	2507126	2499540	0.48	cps
Zinc	66-2	263413	259867	262642	261974	0.71	cps
Zirconium	90-1	7852	8026	7656	7845	2.36	cps
Zirconium	91-1	1790	1703	1710	1735	2.78	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1260033	1282144	1305091	1282423	1.76	cps
Antimony	121-1	720	670	683	691	3.75	cps
Arsenic	75-2	2460	2837	2564	2620	7.43	cps
Barium	135-1	127503	127712	127661	127625	0.09	cps
Barium	137-1	221952	224225	223656	223278	0.53	cps
Beryllium	9-1	13554	13476	13611	13547	0.50	cps
Bismuth	209-1	12095808	12013427	11973087	12027441	0.52	cps
Bismuth	209-2	4644969	4155160	4666001	4488710	6.44	cps
Bromine	81-1	35896	35679	35742	35772	0.31	cps
Cadmium	108-1	820	793	833	816	2.50	cps
Cadmium	106-1	12219	11992	11742	11984	1.99	cps
Cadmium	111-1	19374	19307	19164	19282	0.56	cps
Calcium	43-1	2967253	2918448	3013600	2966434	1.60	cps
Calcium	44-1	47826331	47761349	48188891	47925524	0.48	cps
Carbon	12-1	5281264	5297130	5440555	5339650	1.64	cps
Carbon	12-2	42448	42953	42772	42724	0.60	cps
Chlorine	35-1	332858	348978	357695	346510	3.64	cps
Chlorine	35-2	1393	1397	1513	1435	4.76	cps
Chromium	52-2	39515	39217	38358	39030	1.54	cps
Cobalt	59-2	462921	463413	460074	462136	0.39	cps
Copper	63-2	388025	390243	387037	388435	0.42	cps
Dysprosium	156-1	327196	333407	330618	330407	0.94	cps
Dysprosium	156-2	87222	87769	88336	87775	0.63	cps
Erbium	164-1	253894	255372	251884	253717	0.69	cps
Erbium	164-2	82135	82745	81726	82202	0.62	cps
Gadolinium	160-1	249561	247522	249847	248977	0.51	cps
Gadolinium	160-2	97234	98379	97466	97693	0.62	cps
Holmium	165-1	20363121	20336160	19913116	20204132	1.25	cps
Holmium	165-2	6819404	6036300	7009403	6621702	7.79	cps
Indium	115-1	16844925	16515981	16780327	16713744	1.04	cps
Indium	115-2	1682842	1512134	1705064	1633347	6.46	cps
Iron	54-2	594552	600253	587439	594082	1.08	cps
Iron	56-2	11048908	11134799	10968625	11050777	0.75	cps
Iron	57-2	273043	275619	272651	273771	0.59	cps
Krypton	83-1	520	590	520	543	7.44	cps
Lead	206-1	127900	127789	129543	128411	0.76	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	106312	105959	108866	107045	1.48	cps
Lead	208-1	496006	497627	502028	498554	0.63	cps
Lithium	6-1	5272515	5090347	5188515	5183792	1.76	cps
Magnesium	24-2	1895147	1928983	1907828	1910653	0.89	cps
Manganese	55-2	7071430	7256370	7053814	7127205	1.57	cps
Molybdenum	94-1	2940	3014	3054	3003	1.91	cps
Molybdenum	95-1	1107	953	1023	1028	7.47	cps
Molybdenum	96-1	1200	1137	1147	1161	2.93	cps
Molybdenum	97-1	283	363	270	306	16.52	cps
Molybdenum	98-1	827	853	847	842	1.65	cps
Neodymium	150-1	351474	358423	354856	354918	0.98	cps
Neodymium	150-2	85544	85506	85725	85592	0.14	cps
Nickel	60-2	104437	105165	106240	105281	0.86	cps
Phosphorus	31-2	2790	2937	2930	2886	2.87	cps
Potassium	39-2	1441029	1445054	1409816	1431966	1.35	cps
Rhodium	103-1	15605994	15321725	15310585	15412768	1.09	cps
Rhodium	103-2	5814712	5225865	5988935	5676504	7.04	cps
Scandium	45-1	10597274	10448744	10557162	10534393	0.73	cps
Scandium	45-2	193364	174380	195543	187762	6.20	cps
Selenium	82-1	453	340	487	427	18.02	cps
Selenium	77-2	457	403	340	400	14.60	cps
Selenium	78-2	280	227	220	242	13.58	cps
Silicon	28-1	109850222	109415798	109831098	109699039	0.22	cps
Silver	107-1	670	687	707	688	2.67	cps
Silver	109-1	543	493	440	492	10.50	cps
Sodium	23-2	1438879	1418253	1423957	1427029	0.75	cps
Strontium	86-1	1017680	1022784	1019756	1020073	0.25	cps
Strontium	88-1	9052993	9093094	9331093	9159060	1.64	cps
Sulfur	34-1	5733110	5834861	5851967	5806646	1.11	cps
Terbium	159-1	20884468	20436759	20495635	20605620	1.18	cps
Terbium	159-2	6553880	5933027	6568953	6351954	5.71	cps
Thallium	203-1	3624	3637	3714	3658	1.33	cps
Thallium	205-1	8923	8977	8740	8880	1.40	cps
Tin	118-1	4077	4067	3941	4028	1.89	cps
Titanium	47-1	4821	4901	4914	4879	1.03	cps
Uranium	238-1	69371	70946	69643	69987	1.20	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-21 16:18:45	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47692	48268	47833	47931	0.63	cps
Ytterbium	172-1	62590	63180	62212	62661	0.78	cps
Ytterbium	172-2	25017	25421	24730	25056	1.39	cps
Ytterbium	176-1	40940	40833	40569	40781	0.47	cps
Ytterbium	176-2	15983	16243	15753	15993	1.53	cps
Yttrium	89-1	34978260	34510724	34827298	34772094	0.69	cps
Yttrium	89-2	2491278	2293919	2508907	2431368	4.91	cps
Zinc	66-2	261482	264544	261498	262508	0.67	cps
Zirconium	90-1	7729	7652	8109	7830	3.12	cps
Zirconium	91-1	1663	1687	1727	1692	1.89	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1356363	1311644	1354596	1340868	1.89	cps
Antimony	121-1	2434102	2439860	2481584	2451849	1.06	cps
Arsenic	75-2	2364	2607	2484	2485	4.90	cps
Barium	135-1	2695451	2819182	2791897	2768843	2.35	cps
Barium	137-1	4743110	4703766	4742045	4729640	0.47	cps
Beryllium	9-1	523448	527304	527431	526061	0.43	cps
Bismuth	209-1	11919183	11797909	11781139	11832744	0.64	cps
Bismuth	209-2	4535846	4531411	4547910	4538389	0.19	cps
Bromine	81-1	34232	36090	35993	35438	2.95	cps
Cadmium	108-1	44307	45036	44793	44712	0.83	cps
Cadmium	106-1	76453	77362	76963	76926	0.59	cps
Cadmium	111-1	589635	591725	590648	590669	0.18	cps
Calcium	43-1	3530792	3551954	3509043	3530596	0.61	cps
Calcium	44-1	58254136	57645474	57685074	57861561	0.59	cps
Carbon	12-1	5070293	5105190	5080370	5085284	0.35	cps
Carbon	12-2	40466	41037	41294	40932	1.04	cps
Chlorine	35-1	11718895	13485330	14259664	13154630	9.90	cps
Chlorine	35-2	62263	63867	64479	63537	1.80	cps
Chromium	52-2	466645	465580	467153	466459	0.17	cps
Cobalt	59-2	1272954	1267275	1272379	1270870	0.25	cps
Copper	63-2	7221305	7222851	7174721	7206292	0.38	cps
Dysprosium	156-1	313534	314541	316603	314893	0.50	cps
Dysprosium	156-2	82610	82599	82579	82596	0.02	cps
Erbium	164-1	243454	242940	245113	243836	0.47	cps
Erbium	164-2	78805	78131	79311	78749	0.75	cps
Gadolinium	160-1	237176	238825	238686	238229	0.38	cps
Gadolinium	160-2	93270	92984	93981	93412	0.55	cps
Holmium	165-1	20061605	19968875	19904631	19978370	0.40	cps
Holmium	165-2	6796739	6729558	6691100	6739132	0.79	cps
Indium	115-1	16514378	16513898	16651510	16559929	0.48	cps
Indium	115-2	1672337	1677923	1642074	1664111	1.16	cps
Iron	54-2	1444005	1404911	1442070	1430329	1.54	cps
Iron	56-2	25797264	25877228	26062185	25912225	0.52	cps
Iron	57-2	639465	638350	641945	639920	0.29	cps
Krypton	83-1	637	563	563	588	7.20	cps
Lead	206-1	8719395	8780204	8618474	8706024	0.94	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7508804	7658874	7587681	7585119	0.99	cps
Lead	208-1	34830251	35229126	34504765	34854714	1.04	cps
Lithium	6-1	5128533	5052432	5151643	5110870	1.02	cps
Magnesium	24-2	4474517	4369745	4480124	4441462	1.40	cps
Manganese	55-2	8588442	8574334	8836009	8666262	1.70	cps
Molybdenum	94-1	3991044	3855138	3913580	3919920	1.74	cps
Molybdenum	95-1	4334239	4234125	4284755	4284373	1.17	cps
Molybdenum	96-1	4876087	4812757	4829601	4839482	0.68	cps
Molybdenum	97-1	2658094	2727197	2695425	2693572	1.28	cps
Molybdenum	98-1	6917818	7087113	6885968	6963633	1.55	cps
Neodymium	150-1	343955	339547	342239	341914	0.65	cps
Neodymium	150-2	82132	82112	82703	82316	0.41	cps
Nickel	60-2	325786	326092	323586	325155	0.42	cps
Phosphorus	31-2	2727	2744	2670	2714	1.42	cps
Potassium	39-2	2194657	2107397	2137814	2146623	2.06	cps
Rhodium	103-1	15157458	15200575	15042165	15133399	0.54	cps
Rhodium	103-2	5784835	5777168	5837711	5799904	0.57	cps
Scandium	45-1	10716947	10437236	10403370	10519184	1.64	cps
Scandium	45-2	195230	194582	191918	193910	0.91	cps
Selenium	82-1	35045	35650	35817	35504	1.14	cps
Selenium	77-2	987	893	920	933	5.15	cps
Selenium	78-2	2354	2327	2170	2284	4.34	cps
Silicon	28-1	103434712	103359365	103313015	103369031	0.06	cps
Silver	107-1	477127	488230	485721	483693	1.20	cps
Silver	109-1	451713	461718	460761	458064	1.21	cps
Sodium	23-2	6611431	6455242	6569524	6545399	1.24	cps
Strontium	86-1	1920558	1936839	1946907	1934768	0.69	cps
Strontium	88-1	16631550	16746962	16719261	16699258	0.36	cps
Sulfur	34-1	5378225	5602225	5547585	5509345	2.12	cps
Terbium	159-1	20486369	20803560	20600441	20630123	0.78	cps
Terbium	159-2	6572202	6525942	6459480	6519208	0.87	cps
Thallium	203-1	2093771	2161595	2150343	2135236	1.70	cps
Thallium	205-1	4919011	5047212	4994298	4986840	1.29	cps
Tin	118-1	1762074	1736988	1806707	1768590	2.00	cps
Titanium	47-1	5471	5288	5464	5408	1.92	cps
Uranium	238-1	6504760	6588128	6548296	6547061	0.64	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:22:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	391106	392844	393661	392537	0.33	cps
Ytterbium	172-1	59436	61961	60464	60620	2.09	cps
Ytterbium	172-2	23528	23571	23638	23579	0.24	cps
Ytterbium	176-1	48686	48710	48933	48776	0.28	cps
Ytterbium	176-2	18263	18710	18340	18437	1.30	cps
Yttrium	89-1	34374840	34257096	34430133	34354023	0.26	cps
Yttrium	89-2	2454473	2462813	2496455	2471247	0.90	cps
Zinc	66-2	996375	989546	989752	991891	0.39	cps
Zirconium	90-1	4036383	4057031	4147391	4080269	1.45	cps
Zirconium	91-1	873442	874115	883176	876911	0.62	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1374173	1334880	1336019	1348357	1.66	cps
Antimony	121-1	2413311	2444207	2418002	2425173	0.69	cps
Arsenic	75-2	2457	2310	2480	2416	3.82	cps
Barium	135-1	2738708	2761260	2761314	2753761	0.47	cps
Barium	137-1	4637050	4753075	4694210	4694778	1.24	cps
Beryllium	9-1	515401	521081	522909	519797	0.75	cps
Bismuth	209-1	11926180	11770898	11804378	11833819	0.69	cps
Bismuth	209-2	4569868	4588003	4533107	4563659	0.61	cps
Bromine	81-1	34389	33958	34262	34203	0.65	cps
Cadmium	108-1	44562	44739	44575	44625	0.22	cps
Cadmium	106-1	75217	77768	77265	76750	1.76	cps
Cadmium	111-1	579016	589411	589641	586023	1.04	cps
Calcium	43-1	3533320	3567976	3518472	3539923	0.72	cps
Calcium	44-1	56518662	57764926	56970947	57084845	1.11	cps
Carbon	12-1	4999039	5030491	5180945	5070159	1.92	cps
Carbon	12-2	41415	39891	40181	40496	2.00	cps
Chlorine	35-1	13235341	14703468	15637845	14525551	8.34	cps
Chlorine	35-2	66803	67101	67192	67032	0.30	cps
Chromium	52-2	466239	467530	464496	466088	0.33	cps
Cobalt	59-2	1254471	1265347	1256426	1258748	0.46	cps
Copper	63-2	7249193	7144053	7149544	7180930	0.82	cps
Dysprosium	156-1	314269	312641	313668	313526	0.26	cps
Dysprosium	156-2	81563	82392	80993	81649	0.86	cps
Erbium	164-1	241191	244556	245709	243819	0.96	cps
Erbium	164-2	78563	78668	77698	78310	0.68	cps
Gadolinium	160-1	234970	238354	238967	237430	0.91	cps
Gadolinium	160-2	92176	91793	92578	92182	0.43	cps
Holmium	165-1	20205228	20166788	20095233	20155750	0.28	cps
Holmium	165-2	6747494	6637939	6598520	6661318	1.16	cps
Indium	115-1	16682874	16444538	16379817	16502410	0.97	cps
Indium	115-2	1691113	1658879	1624131	1658041	2.02	cps
Iron	54-2	1449925	1432425	1439837	1440729	0.61	cps
Iron	56-2	25711230	25594175	25688846	25664750	0.24	cps
Iron	57-2	640498	638376	635400	638091	0.40	cps
Krypton	83-1	580	543	630	584	7.44	cps
Lead	206-1	8615287	8843294	8724175	8727586	1.31	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7506100	7621137	7716023	7614420	1.38	cps
Lead	208-1	34370322	34900835	35225464	34832207	1.24	cps
Lithium	6-1	5131976	5082657	4873571	5029402	2.73	cps
Magnesium	24-2	4439367	4385178	4410986	4411844	0.61	cps
Manganese	55-2	8614842	8623990	8635665	8624832	0.12	cps
Molybdenum	94-1	3876748	3862772	3959469	3899663	1.34	cps
Molybdenum	95-1	4291380	4320302	4373205	4328296	0.96	cps
Molybdenum	96-1	4834618	4925847	4867895	4876120	0.95	cps
Molybdenum	97-1	2658858	2633521	2673387	2655255	0.76	cps
Molybdenum	98-1	6699982	6785800	6890851	6792211	1.41	cps
Neodymium	150-1	336796	341316	335677	337930	0.88	cps
Neodymium	150-2	81126	82254	80429	81270	1.13	cps
Nickel	60-2	323348	324717	325302	324455	0.31	cps
Phosphorus	31-2	2917	2710	2837	2821	3.69	cps
Potassium	39-2	2125120	2162074	2105250	2130814	1.35	cps
Rhodium	103-1	14966966	14814204	14905201	14895457	0.52	cps
Rhodium	103-2	5886176	5788143	5779689	5818002	1.02	cps
Scandium	45-1	10394710	10305000	10455747	10385153	0.73	cps
Scandium	45-2	196427	194599	192984	194670	0.88	cps
Selenium	82-1	34657	35383	35276	35105	1.12	cps
Selenium	77-2	963	917	957	946	2.67	cps
Selenium	78-2	2367	2077	2320	2255	6.91	cps
Silicon	28-1	104495175	105636112	102802902	104311396	1.37	cps
Silver	107-1	481493	491205	495056	489251	1.43	cps
Silver	109-1	450154	460556	462541	457750	1.45	cps
Sodium	23-2	6531924	6452478	6450088	6478164	0.72	cps
Strontium	86-1	1910512	1921188	1938539	1923413	0.74	cps
Strontium	88-1	16414227	16408670	16600862	16474586	0.66	cps
Sulfur	34-1	5604355	5515027	5483409	5534264	1.13	cps
Terbium	159-1	20617249	20631538	20466550	20571779	0.44	cps
Terbium	159-2	6573643	6498642	6529518	6533934	0.58	cps
Thallium	203-1	2141632	2127951	2127907	2132497	0.37	cps
Thallium	205-1	5002780	4993773	4959145	4985232	0.46	cps
Tin	118-1	1753456	1761338	1775942	1763579	0.65	cps
Titanium	47-1	5458	5518	5458	5478	0.63	cps
Uranium	238-1	6470797	6522083	6579277	6524052	0.83	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:24:55	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	393035	390772	386679	390162	0.83	cps
Ytterbium	172-1	58837	60079	60886	59934	1.72	cps
Ytterbium	172-2	23344	23905	23791	23680	1.25	cps
Ytterbium	176-1	47575	49539	48492	48535	2.02	cps
Ytterbium	176-2	18707	18343	18630	18560	1.03	cps
Yttrium	89-1	34655476	34505397	34711986	34624286	0.31	cps
Yttrium	89-2	2469571	2472584	2505644	2482600	0.81	cps
Zinc	66-2	979745	983397	984012	982385	0.23	cps
Zirconium	90-1	4069189	4088164	4133674	4097009	0.81	cps
Zirconium	91-1	865448	874120	883506	874358	1.03	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1347244	1340629	1368363	1352079	1.07	cps
Antimony	121-1	2415311	2410876	2409877	2412021	0.12	cps
Arsenic	75-2	2564	2657	2584	2601	1.89	cps
Barium	135-1	2669385	2719777	2764487	2717883	1.75	cps
Barium	137-1	4575644	4729629	4637494	4647589	1.67	cps
Beryllium	9-1	511109	515373	521496	515992	1.01	cps
Bismuth	209-1	11727665	11861175	11973595	11854145	1.04	cps
Bismuth	209-2	4552936	4592793	4577418	4574382	0.44	cps
Bromine	81-1	33303	33898	34061	33754	1.18	cps
Cadmium	108-1	43398	44013	44231	43881	0.98	cps
Cadmium	106-1	75703	76655	75200	75852	0.97	cps
Cadmium	111-1	585359	580690	592830	586293	1.04	cps
Calcium	43-1	3471161	3475142	3602463	3516256	2.12	cps
Calcium	44-1	55761608	56502727	57313541	56525959	1.37	cps
Carbon	12-1	4816993	5000485	5023413	4946964	2.29	cps
Carbon	12-2	40024	40172	40359	40185	0.42	cps
Chlorine	35-1	13644969	14708404	15956094	14769822	7.83	cps
Chlorine	35-2	67935	68464	69332	68577	1.03	cps
Chromium	52-2	466749	464562	467100	466137	0.30	cps
Cobalt	59-2	1258538	1262967	1272078	1264527	0.55	cps
Copper	63-2	7207822	7207109	7116461	7177130	0.73	cps
Dysprosium	156-1	305441	311209	314001	310217	1.41	cps
Dysprosium	156-2	81845	82690	82797	82444	0.63	cps
Erbium	164-1	237318	241704	245730	241584	1.74	cps
Erbium	164-2	78771	77762	77886	78140	0.70	cps
Gadolinium	160-1	233280	236926	238497	236234	1.13	cps
Gadolinium	160-2	93061	92890	91612	92521	0.86	cps
Holmium	165-1	20188552	19987792	20448836	20208393	1.14	cps
Holmium	165-2	6774851	6724959	6739145	6746318	0.38	cps
Indium	115-1	16578524	16374937	16554554	16502672	0.67	cps
Indium	115-2	1653224	1656362	1697658	1669081	1.49	cps
Iron	54-2	1416445	1389444	1430380	1412090	1.47	cps
Iron	56-2	26120179	25867429	25924036	25970548	0.51	cps
Iron	57-2	634687	639243	642536	638822	0.62	cps
Krypton	83-1	603	560	567	577	4.05	cps
Lead	206-1	8710897	8687230	8735428	8711185	0.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7554010	7528412	7638449	7573624	0.76	cps
Lead	208-1	34085251	34647398	34804458	34512369	1.10	cps
Lithium	6-1	5104797	4943287	4979032	5009039	1.69	cps
Magnesium	24-2	4501458	4495367	4505065	4500630	0.11	cps
Manganese	55-2	8693773	8609328	8624637	8642579	0.52	cps
Molybdenum	94-1	3853504	3778143	3921991	3851212	1.87	cps
Molybdenum	95-1	4243237	4204435	4273680	4240451	0.82	cps
Molybdenum	96-1	4732615	4820965	4841675	4798418	1.21	cps
Molybdenum	97-1	2654340	2667081	2741727	2687716	1.76	cps
Molybdenum	98-1	6876006	6842358	6907328	6875231	0.47	cps
Neodymium	150-1	333719	337109	335439	335423	0.51	cps
Neodymium	150-2	79162	80767	80674	80201	1.12	cps
Nickel	60-2	321824	326474	320350	322883	0.99	cps
Phosphorus	31-2	2714	2837	2717	2756	2.55	cps
Potassium	39-2	2107541	2100639	2136632	2114938	0.90	cps
Rhodium	103-1	15110691	15222126	15125776	15152864	0.40	cps
Rhodium	103-2	5795161	5801672	5841684	5812839	0.43	cps
Scandium	45-1	10191375	10246588	10472407	10303457	1.45	cps
Scandium	45-2	196191	196080	197951	196741	0.53	cps
Selenium	82-1	35951	35703	36091	35915	0.55	cps
Selenium	77-2	920	877	827	874	5.34	cps
Selenium	78-2	2244	2144	2210	2199	2.32	cps
Silicon	28-1	101826685	102448202	101801142	102025343	0.36	cps
Silver	107-1	479504	485889	490806	485400	1.17	cps
Silver	109-1	451543	458524	457314	455794	0.82	cps
Sodium	23-2	6688295	6438114	6584394	6570268	1.91	cps
Strontium	86-1	1925475	1891534	1929919	1915643	1.10	cps
Strontium	88-1	16590516	16390798	16208535	16396616	1.17	cps
Sulfur	34-1	5377222	5382724	5609754	5456567	2.43	cps
Terbium	159-1	20732517	20333803	20956979	20674433	1.53	cps
Terbium	159-2	6515467	6631291	6508040	6551599	1.05	cps
Thallium	203-1	2091271	2118687	2105513	2105157	0.65	cps
Thallium	205-1	4883897	5018887	4945060	4949281	1.37	cps
Tin	118-1	1749574	1779543	1779877	1769664	0.98	cps
Titanium	47-1	5448	5284	5264	5332	1.89	cps
Uranium	238-1	6301666	6491273	6469429	6420790	1.62	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 16:27:53	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	390383	392111	391259	391251	0.22	cps
Ytterbium	172-1	58807	60554	61033	60131	1.95	cps
Ytterbium	172-2	23197	23498	23598	23431	0.89	cps
Ytterbium	176-1	47455	48505	48505	48155	1.26	cps
Ytterbium	176-2	18580	18286	18423	18430	0.80	cps
Yttrium	89-1	34686409	34633404	34023102	34447639	1.07	cps
Yttrium	89-2	2482988	2510671	2509789	2501149	0.63	cps
Zinc	66-2	975510	984360	985059	981643	0.54	cps
Zirconium	90-1	3988413	4195795	3967604	4050604	3.11	cps
Zirconium	91-1	864165	875846	869736	869916	0.67	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	203	157	193	184	13.32	cps
Antimony	121-1	170	190	170	177	6.54	cps
Arsenic	75-2	10	10	0	7	86.60	cps
Barium	135-1	150	163	137	150	8.89	cps
Barium	137-1	213	183	193	197	7.77	cps
Beryllium	9-1	127	133	111	124	8.86	cps
Bismuth	209-1	12006254	12221225	12156044	12127841	0.91	cps
Bismuth	209-2	4723282	4743565	4667637	4711495	0.83	cps
Bromine	81-1	29434	30129	30066	29876	1.29	cps
Cadmium	108-1	23	30	30	28	13.86	cps
Cadmium	106-1	8940	9190	9380	9170	2.41	cps
Cadmium	111-1	6268	6429	6572	6423	2.36	cps
Calcium	43-1	783	860	743	796	7.45	cps
Calcium	44-1	28511	28010	28564	28362	1.08	cps
Carbon	12-1	3687650	3728906	3736157	3717571	0.70	cps
Carbon	12-2	28207	29062	29092	28787	1.75	cps
Chlorine	35-1	242404	242053	238294	240917	0.95	cps
Chlorine	35-2	910	790	917	872	8.17	cps
Chromium	52-2	867	857	853	859	0.81	cps
Cobalt	59-2	67	70	63	67	5.00	cps
Copper	63-2	1440	1377	1350	1389	3.33	cps
Dysprosium	156-1	13	17	20	17	20.01	cps
Dysprosium	156-2	3	10	13	9	57.30	cps
Erbium	164-1	173	140	133	149	14.39	cps
Erbium	164-2	33	37	13	28	45.44	cps
Gadolinium	160-1	77	97	93	89	12.05	cps
Gadolinium	160-2	37	23	27	29	24.03	cps
Holmium	165-1	19668167	19612041	19457471	19579226	0.56	cps
Holmium	165-2	6702238	6830431	6724848	6752506	1.01	cps
Indium	115-1	16545833	16902139	16927041	16791671	1.27	cps
Indium	115-2	1724812	1739974	1706021	1723603	0.99	cps
Iron	54-2	563	460	480	501	10.94	cps
Iron	56-2	5678	5788	6285	5917	5.47	cps
Iron	57-2	123	160	137	140	13.25	cps
Krypton	83-1	223	247	253	241	6.53	cps
Lead	206-1	867	903	963	911	5.36	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	680	733	837	750	10.62	cps
Lead	208-1	3380	3570	3600	3517	3.39	cps
Lithium	6-1	5035749	5045327	5023552	5034876	0.22	cps
Magnesium	24-2	517	517	503	512	1.50	cps
Manganese	55-2	4041	3927	3844	3937	2.51	cps
Molybdenum	94-1	930	857	710	832	13.46	cps
Molybdenum	95-1	347	307	317	323	6.44	cps
Molybdenum	96-1	537	453	463	484	9.39	cps
Molybdenum	97-1	220	220	180	207	11.17	cps
Molybdenum	98-1	480	463	450	464	3.24	cps
Neodymium	150-1	10	10	17	12	31.50	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	300	277	287	288	4.07	cps
Phosphorus	31-2	70	77	40	62	31.39	cps
Potassium	39-2	14284	14494	14567	14448	1.02	cps
Rhodium	103-1	15610652	15294805	15625198	15510218	1.20	cps
Rhodium	103-2	6129482	6076571	6004687	6070247	1.03	cps
Scandium	45-1	10300116	10388872	10351582	10346857	0.43	cps
Scandium	45-2	194272	197502	194049	195274	0.99	cps
Selenium	82-1	33	-30	-27	-8	-458.11	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	30	13	19	50.96	cps
Silicon	28-1	485757	514723	492564	497681	3.04	cps
Silver	107-1	327	293	353	324	9.27	cps
Silver	109-1	170	167	173	170	1.96	cps
Sodium	23-2	37689	37448	37552	37563	0.32	cps
Strontium	86-1	403	423	403	410	2.82	cps
Strontium	88-1	617	617	670	634	4.85	cps
Sulfur	34-1	552104	556098	553962	554054	0.36	cps
Terbium	159-1	20116630	20085406	20274999	20159012	0.50	cps
Terbium	159-2	6488751	6477510	6337908	6434723	1.31	cps
Thallium	203-1	320	280	353	318	11.55	cps
Thallium	205-1	753	757	723	744	2.47	cps
Tin	118-1	3230	3551	3110	3297	6.90	cps
Titanium	47-1	260	270	293	274	6.23	cps
Uranium	238-1	140	150	117	136	12.62	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BL	Instrumnet Name :	P8
Client Sample ID :	PB168105BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:45:58	DataFile Name :	041CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	10	10	9	21.63	cps
Ytterbium	172-1	137	110	140	129	12.76	cps
Ytterbium	172-2	63	43	53	53	18.75	cps
Ytterbium	176-1	2184	2194	2360	2246	4.42	cps
Ytterbium	176-2	690	707	717	704	1.91	cps
Yttrium	89-1	29643443	29937220	29954193	29844952	0.59	cps
Yttrium	89-2	2242465	2199950	2174179	2205531	1.56	cps
Zinc	66-2	503	440	413	452	10.22	cps
Zirconium	90-1	1993	1923	1867	1928	3.29	cps
Zirconium	91-1	437	373	373	394	9.27	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	792181	792231	799775	794729	0.55	cps
Antimony	121-1	12120950	12243227	12165606	12176595	0.51	cps
Arsenic	75-2	234859	233942	236202	235001	0.48	cps
Barium	135-1	14276989	14495411	14546502	14439634	0.99	cps
Barium	137-1	24704737	24956150	25228594	24963160	1.05	cps
Beryllium	9-1	2482734	2516504	2553719	2517652	1.41	cps
Bismuth	209-1	11119437	11353210	11488224	11320291	1.65	cps
Bismuth	209-2	4419490	4417460	4395442	4410798	0.30	cps
Bromine	81-1	29010	29237	29237	29162	0.45	cps
Cadmium	108-1	229292	232345	234968	232202	1.22	cps
Cadmium	106-1	344792	342260	343373	343475	0.37	cps
Cadmium	111-1	3048686	2989223	3024968	3020959	0.99	cps
Calcium	43-1	3688243	3632440	3629255	3649979	0.91	cps
Calcium	44-1	59685856	59673004	58786807	59381889	0.87	cps
Carbon	12-1	3718309	3727840	3769724	3738624	0.73	cps
Carbon	12-2	30929	30141	31156	30742	1.73	cps
Chlorine	35-1	233772	235238	237159	235390	0.72	cps
Chlorine	35-2	923	963	897	928	3.62	cps
Chromium	52-2	2392917	2324134	2411457	2376169	1.94	cps
Cobalt	59-2	4408949	4419934	4406835	4411906	0.16	cps
Copper	63-2	33993693	34223130	34436784	34217869	0.65	cps
Dysprosium	156-1	340	460	330	377	19.21	cps
Dysprosium	156-2	50	37	73	53	34.79	cps
Erbium	164-1	340	320	390	350	10.30	cps
Erbium	164-2	127	97	113	112	13.39	cps
Gadolinium	160-1	280	297	277	284	3.77	cps
Gadolinium	160-2	70	83	87	80	11.02	cps
Holmium	165-1	19140656	19082913	18922743	19048771	0.59	cps
Holmium	165-2	6551953	6576613	6446351	6524973	1.06	cps
Indium	115-1	15472456	15613617	15495871	15527315	0.49	cps
Indium	115-2	1566531	1571442	1592270	1576747	0.87	cps
Iron	54-2	4798667	4971469	4876098	4882078	1.77	cps
Iron	56-2	87188652	88606225	86918739	87571205	1.04	cps
Iron	57-2	2260255	2290782	2279695	2276911	0.68	cps
Krypton	83-1	297	303	280	293	4.10	cps
Lead	206-1	44033196	43425588	43685269	43714684	0.70	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36813495	37644605	37388368	37282156	1.14	cps
Lead	208-1	170085090	172738885	173441652	172088542	1.03	cps
Lithium	6-1	4846350	4768058	4900093	4838167	1.37	cps
Magnesium	24-2	13703022	13728307	13891411	13774247	0.74	cps
Manganese	55-2	9949032	9887211	9962445	9932896	0.40	cps
Molybdenum	94-1	42228246	41753705	42081986	42021312	0.58	cps
Molybdenum	95-1	61190617	60610084	59633966	60478222	1.30	cps
Molybdenum	96-1	66254649	66413801	64959696	65876048	1.21	cps
Molybdenum	97-1	37686377	36949034	36767747	37134386	1.31	cps
Molybdenum	98-1	99135935	96734669	95905829	97258811	1.72	cps
Neodymium	150-1	1160	1263	1120	1181	6.26	cps
Neodymium	150-2	50	63	73	62	18.81	cps
Nickel	60-2	1159308	1162071	1166858	1162746	0.33	cps
Phosphorus	31-2	38324	38541	38210	38358	0.44	cps
Potassium	39-2	4341145	4419688	4411172	4390668	0.98	cps
Rhodium	103-1	14465754	14369648	13976169	14270524	1.82	cps
Rhodium	103-2	5604783	5546201	5451319	5534101	1.40	cps
Scandium	45-1	10066214	10248791	9933347	10082784	1.57	cps
Scandium	45-2	194051	192103	192019	192724	0.60	cps
Selenium	82-1	176544	179659	177261	177821	0.92	cps
Selenium	77-2	3074	3160	3137	3124	1.44	cps
Selenium	78-2	9924	10247	10154	10108	1.65	cps
Silicon	28-1	70575324	73462584	73111034	72382981	2.18	cps
Silver	107-1	15190064	15107813	15210626	15169501	0.36	cps
Silver	109-1	14170927	14174769	14173003	14172900	0.01	cps
Sodium	23-2	27263848	27375895	27242786	27294176	0.26	cps
Strontium	86-1	3844917	3865245	4004650	3904937	2.23	cps
Strontium	88-1	33597971	33717053	34742275	34019100	1.85	cps
Sulfur	34-1	1395918	1421236	1433544	1416899	1.35	cps
Terbium	159-1	20215090	19707688	19934616	19952465	1.27	cps
Terbium	159-2	6288564	6342379	6314477	6315140	0.43	cps
Thallium	203-1	10886302	10634960	10530565	10683942	1.71	cps
Thallium	205-1	25777365	25322690	25175112	25425056	1.23	cps
Tin	118-1	9669376	9881170	9874302	9808283	1.23	cps
Titanium	47-1	16403026	16337889	16135720	16292211	0.86	cps
Uranium	238-1	32323955	33190385	33783710	33099350	2.22	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	PB168105BS	Instrumnet Name :	P8
Client Sample ID :	PB168105BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:49:19	DataFile Name :	042LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1808375	1795461	1824717	1809518	0.81	cps
Ytterbium	172-1	350	357	363	357	1.87	cps
Ytterbium	172-2	133	167	130	143	14.15	cps
Ytterbium	176-1	52721	52962	54883	53522	2.21	cps
Ytterbium	176-2	17705	17649	17982	17779	1.00	cps
Yttrium	89-1	29350390	29151465	29791188	29431014	1.11	cps
Yttrium	89-2	2128324	2123077	2073142	2108181	1.44	cps
Zinc	66-2	3753528	3812553	3728552	3764878	1.15	cps
Zirconium	90-1	21223298	20890499	21435826	21183208	1.30	cps
Zirconium	91-1	4711437	4747209	4750990	4736545	0.46	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1793393	1761488	1779027	1777969	0.90	cps
Antimony	121-1	2710	2510	2484	2568	4.83	cps
Arsenic	75-2	17594	16907	17531	17344	2.19	cps
Barium	135-1	239365	243547	244776	242563	1.17	cps
Barium	137-1	419711	425506	424427	423215	0.73	cps
Beryllium	9-1	13869	14028	13746	13881	1.02	cps
Bismuth	209-1	12534916	12470029	12203635	12402860	1.42	cps
Bismuth	209-2	4776700	4848331	4750957	4791996	1.05	cps
Bromine	81-1	111664	125348	132371	123128	8.55	cps
Cadmium	108-1	1633	1730	1853	1739	6.34	cps
Cadmium	106-1	15118	15299	15005	15141	0.98	cps
Cadmium	111-1	10843	10968	10676	10829	1.35	cps
Calcium	43-1	223863	223911	221219	222997	0.69	cps
Calcium	44-1	3592515	3563813	3561260	3572529	0.49	cps
Carbon	12-1	10229087	10665465	11025419	10639990	3.75	cps
Carbon	12-2	88317	88172	89480	88656	0.81	cps
Chlorine	35-1	704833	780144	812293	765757	7.20	cps
Chlorine	35-2	3557	3330	3394	3427	3.41	cps
Chromium	52-2	249351	245537	250406	248431	1.03	cps
Cobalt	59-2	118848	119829	120048	119575	0.53	cps
Copper	63-2	188238	187731	186800	187590	0.39	cps
Dysprosium	156-1	226455	220705	220113	222424	1.58	cps
Dysprosium	156-2	71717	71513	71563	71598	0.15	cps
Erbium	164-1	196791	195955	196066	196271	0.23	cps
Erbium	164-2	63490	63568	63005	63354	0.48	cps
Gadolinium	160-1	208447	211778	208317	209514	0.94	cps
Gadolinium	160-2	82097	82812	82587	82499	0.44	cps
Holmium	165-1	20791731	20625683	20618832	20678749	0.47	cps
Holmium	165-2	7061105	6981049	6919538	6987231	1.02	cps
Indium	115-1	17473958	17673700	17228989	17458882	1.28	cps
Indium	115-2	1756387	1795074	1724685	1758715	2.00	cps
Iron	54-2	12079582	11874372	12034353	11996103	0.90	cps
Iron	56-2	221416070	219741303	221958463	221038612	0.52	cps
Iron	57-2	5692719	5560809	5634979	5629502	1.17	cps
Krypton	83-1	480	483	430	464	6.43	cps
Lead	206-1	629103	633001	634304	632136	0.43	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	525515	527989	524837	526114	0.32	cps
Lead	208-1	2453446	2470732	2459491	2461223	0.36	cps
Lithium	6-1	5207442	5192751	5293768	5231320	1.04	cps
Magnesium	24-2	2161391	2168464	2181438	2170431	0.47	cps
Manganese	55-2	664357	664151	668482	665664	0.37	cps
Molybdenum	94-1	555730	553788	553953	554490	0.19	cps
Molybdenum	95-1	197080	198527	197151	197586	0.41	cps
Molybdenum	96-1	286897	303950	284898	291915	3.59	cps
Molybdenum	97-1	123439	123029	121035	122501	1.05	cps
Molybdenum	98-1	316721	315508	315694	315974	0.21	cps
Neodymium	150-1	285671	281367	284635	283891	0.79	cps
Neodymium	150-2	67572	69225	68430	68409	1.21	cps
Nickel	60-2	74638	74607	74309	74518	0.24	cps
Phosphorus	31-2	1430	1530	1303	1421	7.99	cps
Potassium	39-2	701072	697592	701496	700053	0.31	cps
Rhodium	103-1	16104147	15843340	15913986	15953824	0.85	cps
Rhodium	103-2	6069430	6123654	5976350	6056478	1.23	cps
Scandium	45-1	11353239	11341534	11104432	11266402	1.25	cps
Scandium	45-2	208853	214591	210177	211207	1.42	cps
Selenium	82-1	693	937	840	823	14.88	cps
Selenium	77-2	390	430	407	409	4.91	cps
Selenium	78-2	237	230	217	228	4.47	cps
Silicon	28-1	40634607	37413284	37815243	38621045	4.55	cps
Silver	107-1	4668	4561	4481	4570	2.05	cps
Silver	109-1	3427	3384	3254	3355	2.69	cps
Sodium	23-2	10992506	10938407	11032640	10987851	0.43	cps
Strontium	86-1	400840	408192	396444	401825	1.48	cps
Strontium	88-1	3546290	3515134	3536928	3532784	0.45	cps
Sulfur	34-1	5564961	5497578	5332997	5465179	2.18	cps
Terbium	159-1	21931908	21749404	21112954	21598089	1.99	cps
Terbium	159-2	6799761	6826112	6598954	6741609	1.84	cps
Thallium	203-1	8003	8296	8063	8120	1.91	cps
Thallium	205-1	18974	18837	18847	18886	0.40	cps
Tin	118-1	87422	97906	80531	88620	9.87	cps
Titanium	47-1	1294299	832814	762919	963344	29.97	cps
Uranium	238-1	326080	332448	328867	329132	0.97	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-01	Instrumnet Name :	P8
Client Sample ID :	SC-4-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:54:18	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	331866	330906	332709	331827	0.27	cps
Ytterbium	172-1	55128	55897	55770	55598	0.74	cps
Ytterbium	172-2	21628	22072	21511	21737	1.36	cps
Ytterbium	176-1	40010	39853	39937	39934	0.20	cps
Ytterbium	176-2	15169	15392	15669	15410	1.63	cps
Yttrium	89-1	33694571	33418200	33542946	33551906	0.41	cps
Yttrium	89-2	2419233	2434730	2386123	2413362	1.03	cps
Zinc	66-2	87700	87662	89578	88313	1.24	cps
Zirconium	90-1	1201473	1226982	1213495	1213983	1.05	cps
Zirconium	91-1	270664	273610	270145	271473	0.69	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3752241	3813266	3809594	3791700	0.90	cps
Antimony	121-1	11529412	11914246	11856208	11766622	1.76	cps
Arsenic	75-2	229388	229191	230001	229526	0.18	cps
Barium	135-1	13829086	14301872	14209638	14113532	1.78	cps
Barium	137-1	23901421	24244897	24763176	24303165	1.79	cps
Beryllium	9-1	2363526	2381238	2399648	2381471	0.76	cps
Bismuth	209-1	10563979	10794606	10637936	10665507	1.10	cps
Bismuth	209-2	4336604	4388878	4197323	4307602	2.30	cps
Bromine	81-1	39970	39398	39880	39750	0.77	cps
Cadmium	108-1	218660	222543	225784	222329	1.60	cps
Cadmium	106-1	321853	328734	334266	328284	1.89	cps
Cadmium	111-1	2782866	2877915	2864342	2841708	1.81	cps
Calcium	43-1	16271443	16674765	16470785	16472331	1.22	cps
Calcium	44-1	266972416	267707503	271499583	268726500	0.90	cps
Carbon	12-1	4064535	4088917	4101959	4085137	0.47	cps
Carbon	12-2	36736	36689	35774	36400	1.49	cps
Chlorine	35-1	266226	262062	259418	262569	1.31	cps
Chlorine	35-2	1043	937	883	954	8.54	cps
Chromium	52-2	2349450	2320668	2312230	2327449	0.84	cps
Cobalt	59-2	4147431	4145746	4186001	4159726	0.55	cps
Copper	63-2	32361116	32259592	32400855	32340521	0.23	cps
Dysprosium	156-1	607	800	673	693	14.16	cps
Dysprosium	156-2	143	147	200	163	19.47	cps
Erbium	164-1	707	667	713	696	3.63	cps
Erbium	164-2	210	237	267	238	11.92	cps
Gadolinium	160-1	587	547	520	551	6.09	cps
Gadolinium	160-2	237	217	233	229	4.68	cps
Holmium	165-1	18665177	18886598	18928712	18826829	0.75	cps
Holmium	165-2	6715686	6916287	6550531	6727501	2.72	cps
Indium	115-1	15213325	15124129	15047237	15128230	0.55	cps
Indium	115-2	1600595	1697842	1481257	1593231	6.81	cps
Iron	54-2	23854765	23606164	23671392	23710774	0.54	cps
Iron	56-2	433794087	437465060	434798114	435352420	0.44	cps
Iron	57-2	10803389	11015375	11061738	10960167	1.26	cps
Krypton	83-1	317	260	333	303	12.67	cps
Lead	206-1	40631896	42095178	42087720	41604931	2.03	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35097025	35519764	35378155	35331648	0.61	cps
Lead	208-1	161762590	164207913	164551831	163507445	0.93	cps
Lithium	6-1	4522172	4587841	4556801	4555605	0.72	cps
Magnesium	24-2	62235507	63706624	64020829	63320987	1.51	cps
Manganese	55-2	9629217	9699379	9689979	9672859	0.39	cps
Molybdenum	94-1	40023859	40677491	40975572	40558974	1.20	cps
Molybdenum	95-1	57281371	59617976	59109691	58669679	2.09	cps
Molybdenum	96-1	63611249	64992862	64051456	64218522	1.10	cps
Molybdenum	97-1	36282433	36711127	36794452	36596004	0.75	cps
Molybdenum	98-1	93606695	95372305	96655665	95211555	1.61	cps
Neodymium	150-1	1207	1303	1293	1268	4.19	cps
Neodymium	150-2	73	110	120	101	24.30	cps
Nickel	60-2	1084696	1076209	1080453	1080453	0.39	cps
Phosphorus	31-2	36757	37355	37241	37117	0.86	cps
Potassium	39-2	22202861	21761618	22348288	22104256	1.38	cps
Rhodium	103-1	13663276	13465276	13481318	13536624	0.81	cps
Rhodium	103-2	5362965	5648995	5267889	5426616	3.66	cps
Scandium	45-1	9819456	9937614	9680961	9812677	1.31	cps
Scandium	45-2	196915	202679	189954	196516	3.24	cps
Selenium	82-1	166486	169811	169866	168721	1.15	cps
Selenium	77-2	2957	2927	3164	3016	4.27	cps
Selenium	78-2	10130	9837	9623	9864	2.58	cps
Silicon	28-1	68258692	68203969	69012591	68491751	0.66	cps
Silver	107-1	13754330	14360153	14036889	14050457	2.16	cps
Silver	109-1	12947764	13157658	13217656	13107693	1.08	cps
Sodium	23-2	123428155	123570805	125477648	124158869	0.92	cps
Strontium	86-1	3716589	3782223	3832029	3776947	1.53	cps
Strontium	88-1	32635962	33263052	33357985	33085666	1.19	cps
Sulfur	34-1	1364704	1334979	1384024	1361235	1.81	cps
Terbium	159-1	19905387	19735595	19779547	19806843	0.44	cps
Terbium	159-2	6533807	6712552	6215388	6487249	3.88	cps
Thallium	203-1	10018735	10381762	10070708	10157069	1.93	cps
Thallium	205-1	23588706	24669856	24300038	24186200	2.27	cps
Tin	118-1	9423383	9541970	9448105	9471153	0.66	cps
Titanium	47-1	15283491	15685860	15733841	15567731	1.59	cps
Uranium	238-1	32297152	32479523	32958973	32578549	1.05	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 16:57:32	DataFile Name :	044CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1787706	1783731	1793925	1788454	0.29	cps
Ytterbium	172-1	1053	970	1023	1016	4.16	cps
Ytterbium	172-2	420	440	377	412	7.85	cps
Ytterbium	176-1	51758	54167	54144	53356	2.59	cps
Ytterbium	176-2	17141	17358	17598	17366	1.32	cps
Yttrium	89-1	28832015	28528534	28544140	28634896	0.60	cps
Yttrium	89-2	2204694	2270231	2085040	2186655	4.29	cps
Zinc	66-2	3685310	3683447	3671804	3680187	0.20	cps
Zirconium	90-1	20302862	20644827	20909652	20619114	1.48	cps
Zirconium	91-1	4495624	4635498	4645968	4592363	1.83	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143	153	150	149	3.42	cps
Antimony	121-1	153	147	150	150	2.22	cps
Arsenic	75-2	3	7	0	3	100.05	cps
Barium	135-1	317	210	260	262	20.35	cps
Barium	137-1	467	357	340	388	17.75	cps
Beryllium	9-1	121	104	131	119	11.74	cps
Bismuth	209-1	12450151	12290882	12268309	12336447	0.80	cps
Bismuth	209-2	4794618	4832010	4912019	4846215	1.24	cps
Bromine	81-1	31158	30710	30336	30735	1.34	cps
Cadmium	108-1	27	7	10	14	74.18	cps
Cadmium	106-1	9076	9010	8920	9002	0.87	cps
Cadmium	111-1	6382	6322	6257	6320	0.99	cps
Calcium	43-1	4347	4261	4161	4256	2.20	cps
Calcium	44-1	81491	82671	82329	82164	0.74	cps
Carbon	12-1	3103304	2974531	3006099	3027978	2.22	cps
Carbon	12-2	22988	23175	23936	23366	2.15	cps
Chlorine	35-1	120634	120423	119653	120237	0.43	cps
Chlorine	35-2	457	453	497	469	5.14	cps
Chromium	52-2	1143	1217	1220	1193	3.63	cps
Cobalt	59-2	67	77	87	77	13.04	cps
Copper	63-2	2057	1957	1893	1969	4.18	cps
Dysprosium	156-1	10	10	17	12	31.50	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Erbium	164-1	113	150	147	137	14.84	cps
Erbium	164-2	47	67	50	54	19.68	cps
Gadolinium	160-1	97	97	110	101	7.61	cps
Gadolinium	160-2	23	40	27	30	29.40	cps
Holmium	165-1	20379541	20023680	19990363	20131195	1.07	cps
Holmium	165-2	6766076	6846520	6895655	6836084	0.96	cps
Indium	115-1	17045963	17152148	16885092	17027734	0.79	cps
Indium	115-2	1758827	1812178	1789741	1786915	1.50	cps
Iron	54-2	587	623	563	591	5.12	cps
Iron	56-2	8186	7729	8289	8068	3.70	cps
Iron	57-2	180	200	210	197	7.77	cps
Krypton	83-1	240	323	253	272	16.44	cps
Lead	206-1	823	830	870	841	3.00	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	757	673	647	692	8.29	cps
Lead	208-1	3357	3330	3264	3317	1.45	cps
Lithium	6-1	5090931	5029958	5126895	5082595	0.96	cps
Magnesium	24-2	433	373	527	444	17.39	cps
Manganese	55-2	1643	1533	1703	1627	5.30	cps
Molybdenum	94-1	590	537	507	544	7.75	cps
Molybdenum	95-1	250	210	250	237	9.76	cps
Molybdenum	96-1	297	193	320	270	24.97	cps
Molybdenum	97-1	107	97	130	111	15.39	cps
Molybdenum	98-1	343	327	377	349	7.30	cps
Neodymium	150-1	10	20	7	12	56.76	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	430	420	373	408	7.42	cps
Phosphorus	31-2	67	60	70	66	7.77	cps
Potassium	39-2	15075	15268	15398	15247	1.07	cps
Rhodium	103-1	15950256	15620419	15737224	15769299	1.06	cps
Rhodium	103-2	6157767	6241938	6229826	6209844	0.73	cps
Scandium	45-1	10637693	10305365	10422260	10455106	1.61	cps
Scandium	45-2	198128	199589	198494	198737	0.38	cps
Selenium	82-1	43	-80	47	3	2163.56	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	20	7	13	49.99	cps
Silicon	28-1	409368	411116	415545	412010	0.77	cps
Silver	107-1	270	200	247	239	14.92	cps
Silver	109-1	133	97	140	123	18.92	cps
Sodium	23-2	33064	33422	33258	33248	0.54	cps
Strontium	86-1	720	700	690	703	2.17	cps
Strontium	88-1	2250	2290	2510	2350	5.96	cps
Sulfur	34-1	468975	471452	472075	470834	0.35	cps
Terbium	159-1	21100716	20922909	20794422	20939349	0.73	cps
Terbium	159-2	6667532	6766786	6589593	6674637	1.33	cps
Thallium	203-1	253	297	277	276	7.87	cps
Thallium	205-1	690	603	627	640	7.01	cps
Tin	118-1	6665	6402	6215	6427	3.52	cps
Titanium	47-1	140	290	227	219	34.40	cps
Uranium	238-1	70	53	93	72	27.82	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:28:54	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	20	20	20	0.00	cps
Ytterbium	172-1	150	160	123	144	13.12	cps
Ytterbium	172-2	47	33	53	44	22.92	cps
Ytterbium	176-1	2124	2404	2244	2257	6.23	cps
Ytterbium	176-2	650	590	663	634	6.16	cps
Yttrium	89-1	31033397	30431504	30170902	30545268	1.45	cps
Yttrium	89-2	2226684	2279786	2199612	2235361	1.82	cps
Zinc	66-2	2214	2050	2244	2169	4.80	cps
Zirconium	90-1	1380	1593	1420	1465	7.74	cps
Zirconium	91-1	197	233	293	241	20.24	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4835053	4709599	4826283	4790311	1.46	cps
Antimony	121-1	1490	1643	1560	1565	4.91	cps
Arsenic	75-2	24698	24051	24702	24484	1.53	cps
Barium	135-1	1341159	1355972	1363551	1353561	0.84	cps
Barium	137-1	2462935	2432716	2459845	2451832	0.68	cps
Beryllium	9-1	11533	11297	11421	11417	1.04	cps
Bismuth	209-1	12085957	12158370	11961771	12068699	0.82	cps
Bismuth	209-2	4760320	4728309	4791168	4759932	0.66	cps
Bromine	81-1	82555	92640	98083	91093	8.65	cps
Cadmium	108-1	3240	3347	3220	3269	2.08	cps
Cadmium	106-1	18886	19083	18883	18951	0.61	cps
Cadmium	111-1	11706	11825	11757	11763	0.51	cps
Calcium	43-1	190042	189415	187628	189028	0.66	cps
Calcium	44-1	3129041	3049508	3109211	3095920	1.34	cps
Carbon	12-1	6768868	7197235	7534789	7166964	5.36	cps
Carbon	12-2	62274	63326	63292	62964	0.95	cps
Chlorine	35-1	518066	563912	589570	557183	6.50	cps
Chlorine	35-2	2427	2407	2460	2431	1.11	cps
Chromium	52-2	595261	588692	590527	591493	0.57	cps
Cobalt	59-2	187119	183300	182744	184388	1.29	cps
Copper	63-2	539059	535302	526967	533776	1.16	cps
Dysprosium	156-1	323404	324571	325830	324602	0.37	cps
Dysprosium	156-2	102022	98741	100042	100268	1.65	cps
Erbium	164-1	235236	237579	236931	236582	0.51	cps
Erbium	164-2	78279	76555	76129	76988	1.48	cps
Gadolinium	160-1	288054	290575	287525	288718	0.56	cps
Gadolinium	160-2	114538	112408	113044	113330	0.96	cps
Holmium	165-1	20792098	20378861	20427881	20532947	1.10	cps
Holmium	165-2	6989546	6969633	6992391	6983857	0.18	cps
Indium	115-1	17098116	16708379	16827046	16877847	1.18	cps
Indium	115-2	1734550	1746432	1728795	1736592	0.52	cps
Iron	54-2	17832889	17805298	17754301	17797496	0.22	cps
Iron	56-2	329409742	330957448	331191748	330519646	0.29	cps
Iron	57-2	8397754	8312706	8273343	8327935	0.76	cps
Krypton	83-1	537	543	527	536	1.57	cps
Lead	206-1	940790	938787	944620	941399	0.31	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	775083	788932	787362	783792	0.97	cps
Lead	208-1	3775998	3822653	3794264	3797638	0.62	cps
Lithium	6-1	5370673	5157653	5373344	5300557	2.33	cps
Magnesium	24-2	4131997	4114550	4109886	4118811	0.28	cps
Manganese	55-2	968498	974296	971891	971561	0.30	cps
Molybdenum	94-1	923416	908976	908853	913748	0.92	cps
Molybdenum	95-1	28068	28139	29040	28416	1.91	cps
Molybdenum	96-1	182936	184705	182198	183280	0.70	cps
Molybdenum	97-1	17942	18449	17938	18110	1.62	cps
Molybdenum	98-1	46073	46290	45882	46082	0.44	cps
Neodymium	150-1	483974	485429	478738	482713	0.73	cps
Neodymium	150-2	117890	115546	114369	115935	1.55	cps
Nickel	60-2	152527	150439	149561	150842	1.01	cps
Phosphorus	31-2	3567	3397	3557	3507	2.72	cps
Potassium	39-2	1501516	1482616	1437332	1473821	2.24	cps
Rhodium	103-1	15921476	15448557	15302364	15557466	2.08	cps
Rhodium	103-2	5929968	5946211	5906829	5927669	0.33	cps
Scandium	45-1	11702423	11417897	11641779	11587366	1.29	cps
Scandium	45-2	215380	215946	219078	216801	0.92	cps
Selenium	82-1	797	843	877	839	4.79	cps
Selenium	77-2	680	540	500	573	16.49	cps
Selenium	78-2	297	243	253	264	10.72	cps
Silicon	28-1	61039817	66077704	54812948	60643490	9.30	cps
Silver	107-1	5601	5821	5738	5720	1.94	cps
Silver	109-1	3094	3170	3364	3209	4.34	cps
Sodium	23-2	9373834	9114263	9334859	9274319	1.51	cps
Strontium	86-1	406412	404109	415742	408754	1.51	cps
Strontium	88-1	3544671	3539932	3578998	3554534	0.60	cps
Sulfur	34-1	819443	810796	804033	811424	0.95	cps
Terbium	159-1	21558633	21321025	21597526	21492395	0.70	cps
Terbium	159-2	6818247	6743300	6778757	6780102	0.55	cps
Thallium	203-1	11345	10958	11255	11186	1.81	cps
Thallium	205-1	26611	26908	26707	26742	0.57	cps
Tin	118-1	73884	73663	79947	75831	4.70	cps
Titanium	47-1	1531386	1497065	1466323	1498258	2.17	cps
Uranium	238-1	349141	355345	352729	352405	0.88	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-02	Instrumnet Name :	P8
Client Sample ID :	SC-3-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:32:46	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	637767	643195	647531	642831	0.76	cps
Ytterbium	172-1	76320	76030	75678	76009	0.42	cps
Ytterbium	172-2	29530	30008	29292	29610	1.23	cps
Ytterbium	176-1	56396	56648	55918	56321	0.66	cps
Ytterbium	176-2	22282	21761	21671	21905	1.51	cps
Yttrium	89-1	33727222	34021096	33810640	33852986	0.45	cps
Yttrium	89-2	2410377	2455672	2438160	2434736	0.94	cps
Zinc	66-2	168835	168152	167603	168196	0.37	cps
Zirconium	90-1	2499589	2581345	2579319	2553418	1.83	cps
Zirconium	91-1	540862	541202	539741	540602	0.14	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	491641	488087	490932	490220	0.38	cps
Antimony	121-1	1300	1467	1517	1428	7.95	cps
Arsenic	75-2	3587	3370	3631	3529	3.95	cps
Barium	135-1	426306	430846	425952	427701	0.64	cps
Barium	137-1	739675	743387	741159	741407	0.25	cps
Beryllium	9-1	2599	2690	2669	2653	1.80	cps
Bismuth	209-1	12370917	12227050	12424841	12340936	0.83	cps
Bismuth	209-2	4852313	4851860	4878982	4861052	0.32	cps
Bromine	81-1	98493	108650	111798	106314	6.54	cps
Cadmium	108-1	560	600	637	599	6.40	cps
Cadmium	106-1	10481	10751	10491	10574	1.45	cps
Cadmium	111-1	7785	7859	7835	7826	0.49	cps
Calcium	43-1	123757	127048	125958	125588	1.34	cps
Calcium	44-1	2030815	2080052	2063268	2058045	1.22	cps
Carbon	12-1	7311528	7576218	8079903	7655883	5.10	cps
Carbon	12-2	63510	63238	63717	63488	0.38	cps
Chlorine	35-1	406161	432092	441709	426654	4.31	cps
Chlorine	35-2	1800	1827	1817	1815	0.74	cps
Chromium	52-2	90531	90058	90666	90418	0.35	cps
Cobalt	59-2	45078	44797	44707	44860	0.43	cps
Copper	63-2	82548	83202	83088	82946	0.42	cps
Dysprosium	156-1	53982	53751	53593	53775	0.36	cps
Dysprosium	156-2	15983	16036	15920	15980	0.37	cps
Erbium	164-1	38482	38726	38091	38433	0.83	cps
Erbium	164-2	12332	12579	12976	12629	2.57	cps
Gadolinium	160-1	46196	45832	46310	46113	0.54	cps
Gadolinium	160-2	18413	18029	17759	18067	1.82	cps
Holmium	165-1	20527259	20375298	19836125	20246227	1.79	cps
Holmium	165-2	6978740	6967620	6987422	6977927	0.14	cps
Indium	115-1	17205817	17089647	16998886	17098117	0.61	cps
Indium	115-2	1756850	1778504	1781168	1772174	0.75	cps
Iron	54-2	1982443	1977398	1987250	1982363	0.25	cps
Iron	56-2	37129764	36560827	35405448	36365346	2.42	cps
Iron	57-2	904048	897063	895231	898781	0.52	cps
Krypton	83-1	273	280	293	282	3.61	cps
Lead	206-1	379888	381447	380724	380686	0.20	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	309957	312588	316309	312951	1.02	cps
Lead	208-1	1457727	1471610	1473881	1467739	0.60	cps
Lithium	6-1	5146907	5155295	5070283	5124162	0.91	cps
Magnesium	24-2	839193	833051	843108	838451	0.60	cps
Manganese	55-2	241752	239423	237093	239422	0.97	cps
Molybdenum	94-1	149683	154777	153275	152578	1.72	cps
Molybdenum	95-1	37026	38102	38373	37834	1.88	cps
Molybdenum	96-1	60893	61288	62389	61523	1.26	cps
Molybdenum	97-1	23814	23740	23577	23710	0.51	cps
Molybdenum	98-1	60889	61378	60568	60945	0.67	cps
Neodymium	150-1	75329	75607	75002	75313	0.40	cps
Neodymium	150-2	17899	18770	18069	18246	2.53	cps
Nickel	60-2	24090	24541	24765	24466	1.40	cps
Phosphorus	31-2	690	637	663	663	4.02	cps
Potassium	39-2	316493	314489	311475	314152	0.80	cps
Rhodium	103-1	15790507	15628083	15441414	15620001	1.12	cps
Rhodium	103-2	6132896	6198618	6214126	6181880	0.70	cps
Scandium	45-1	10788707	10929166	10779164	10832346	0.78	cps
Scandium	45-2	200453	201360	200654	200822	0.24	cps
Selenium	82-1	310	307	267	294	8.19	cps
Selenium	77-2	117	100	90	102	13.18	cps
Selenium	78-2	83	77	53	71	22.15	cps
Silicon	28-1	18883948	17811541	62675825	33123772	77.28	cps
Silver	107-1	2207	2200	2130	2179	1.95	cps
Silver	109-1	1730	1653	1780	1721	3.71	cps
Sodium	23-2	8273701	8356467	8388694	8339621	0.71	cps
Strontium	86-1	198675	194888	194575	196046	1.16	cps
Strontium	88-1	1757009	1770345	1771791	1766382	0.46	cps
Sulfur	34-1	1078862	1093595	1078330	1083596	0.80	cps
Terbium	159-1	21282692	20989038	21050488	21107406	0.73	cps
Terbium	159-2	6885256	6810619	6787443	6827773	0.75	cps
Thallium	203-1	4034	4207	4154	4132	2.15	cps
Thallium	205-1	9921	10014	9697	9877	1.65	cps
Tin	118-1	86814	86072	95405	89430	5.80	cps
Titanium	47-1	489289	483244	501055	491196	1.84	cps
Uranium	238-1	88895	88683	88525	88701	0.21	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-03	Instrumnet Name :	P8
Client Sample ID :	SC-2-SED-051525	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:35:53	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	59684	60544	59925	60051	0.74	cps
Ytterbium	172-1	10781	10901	11075	10919	1.35	cps
Ytterbium	172-2	4457	4434	4521	4471	1.00	cps
Ytterbium	176-1	10151	10104	10341	10199	1.23	cps
Ytterbium	176-2	3978	3594	3621	3731	5.75	cps
Yttrium	89-1	31037825	31468089	31501598	31335837	0.83	cps
Yttrium	89-2	2264488	2323749	2287976	2292071	1.30	cps
Zinc	66-2	51647	52731	50737	51705	1.93	cps
Zirconium	90-1	356896	360779	355686	357787	0.74	cps
Zirconium	91-1	76637	94013	88451	86367	10.27	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2666591	2705503	2626427	2666174	1.48	cps
Antimony	121-1	532969	534487	538443	535300	0.53	cps
Arsenic	75-2	12889	13346	12686	12974	2.61	cps
Barium	135-1	424389	432317	427477	428061	0.93	cps
Barium	137-1	747783	744385	731351	741173	1.17	cps
Beryllium	9-1	12253	12196	12151	12200	0.42	cps
Bismuth	209-1	12499873	12192377	12189602	12293951	1.45	cps
Bismuth	209-2	4868496	4775399	4769249	4804381	1.16	cps
Bromine	81-1	210132	233694	247595	230474	8.22	cps
Cadmium	108-1	1903	1850	1897	1883	1.54	cps
Cadmium	106-1	14157	14828	14972	14652	2.97	cps
Cadmium	111-1	13085	13742	13600	13476	2.56	cps
Calcium	43-1	339981	336703	343116	339934	0.94	cps
Calcium	44-1	5447438	5535038	5503938	5495471	0.81	cps
Carbon	12-1	14595231	15343131	15421355	15119906	3.02	cps
Carbon	12-2	122170	121914	121450	121845	0.30	cps
Chlorine	35-1	810733	888367	930864	876655	6.95	cps
Chlorine	35-2	3827	4251	4264	4114	6.04	cps
Chromium	52-2	255687	259979	256860	257509	0.86	cps
Cobalt	59-2	172323	171594	173395	172438	0.53	cps
Copper	63-2	257293	256911	256419	256874	0.17	cps
Dysprosium	156-1	222551	221275	222600	222142	0.34	cps
Dysprosium	156-2	69335	68310	69148	68931	0.79	cps
Erbium	164-1	174951	181099	178268	178106	1.73	cps
Erbium	164-2	58176	58180	57688	58015	0.49	cps
Gadolinium	160-1	202348	201102	199521	200990	0.70	cps
Gadolinium	160-2	78935	78056	79394	78795	0.86	cps
Holmium	165-1	20812429	20276507	20672425	20587120	1.35	cps
Holmium	165-2	6998597	6772394	6972884	6914625	1.79	cps
Indium	115-1	17314462	16672174	17003339	16996658	1.89	cps
Indium	115-2	1770841	1704561	1774289	1749897	2.25	cps
Iron	54-2	11653267	11842709	11737101	11744359	0.81	cps
Iron	56-2	218777383	219458957	219324930	219187090	0.16	cps
Iron	57-2	5479590	5579235	5483034	5513953	1.03	cps
Krypton	83-1	490	407	473	457	9.66	cps
Lead	206-1	791430	804795	793579	796601	0.90	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	660869	666915	654113	660632	0.97	cps
Lead	208-1	3196824	3104946	3070172	3123980	2.09	cps
Lithium	6-1	5297326	5014631	5190800	5167586	2.76	cps
Magnesium	24-2	2845040	2854203	2760952	2820065	1.82	cps
Manganese	55-2	1026933	1036597	1032098	1031876	0.47	cps
Molybdenum	94-1	507174	507466	505871	506837	0.17	cps
Molybdenum	95-1	130401	131034	129163	130199	0.73	cps
Molybdenum	96-1	212423	216862	207862	212382	2.12	cps
Molybdenum	97-1	80327	80947	80250	80508	0.47	cps
Molybdenum	98-1	206826	208963	205090	206960	0.94	cps
Neodymium	150-1	283776	282845	283014	283212	0.18	cps
Neodymium	150-2	67924	68701	67897	68174	0.67	cps
Nickel	60-2	107859	109820	109155	108944	0.92	cps
Phosphorus	31-2	3424	3257	3180	3287	3.79	cps
Potassium	39-2	1123708	1132899	1127017	1127875	0.41	cps
Rhodium	103-1	15838352	15245622	15571566	15551847	1.91	cps
Rhodium	103-2	6071075	5863632	6008398	5981035	1.78	cps
Scandium	45-1	11232527	10874150	11102187	11069621	1.64	cps
Scandium	45-2	207115	201183	210868	206389	2.37	cps
Selenium	82-1	910	983	1033	976	6.36	cps
Selenium	77-2	373	413	417	401	6.01	cps
Selenium	78-2	273	280	293	282	3.61	cps
Silicon	28-1	36674689	30754747	35177280	34202239	9.00	cps
Silver	107-1	5715	5795	5695	5735	0.92	cps
Silver	109-1	4334	4471	4461	4422	1.72	cps
Sodium	23-2	12544538	12695549	12306331	12515472	1.57	cps
Strontium	86-1	538800	542795	533808	538468	0.84	cps
Strontium	88-1	9917430	4885990	5177406	6660275	42.41	cps
Sulfur	34-1	4672592	4763690	4733665	4723316	0.98	cps
Terbium	159-1	21992107	20745337	20865918	21201121	3.24	cps
Terbium	159-2	6830456	6675543	6814488	6773496	1.26	cps
Thallium	203-1	14515	14518	14281	14438	0.94	cps
Thallium	205-1	33600	34429	33530	33853	1.48	cps
Tin	118-1	49730	49879	55050	51553	5.88	cps
Titanium	47-1	831140	788677	814565	811461	2.64	cps
Uranium	238-1	460453	464820	463286	462853	0.48	cps

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LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:39:09	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	273529	272993	271821	272781	0.32	cps
Ytterbium	172-1	51372	51868	51088	51443	0.77	cps
Ytterbium	172-2	20215	20149	20513	20292	0.95	cps
Ytterbium	176-1	37353	37065	37239	37219	0.39	cps
Ytterbium	176-2	14595	14211	14498	14435	1.38	cps
Yttrium	89-1	33852830	32914393	33427954	33398392	1.41	cps
Yttrium	89-2	2447931	2350866	2437810	2412202	2.21	cps
Zinc	66-2	209039	209418	208031	208829	0.34	cps
Zirconium	90-1	1180090	1192628	1163884	1178868	1.22	cps
Zirconium	91-1	262103	266073	262433	263536	0.84	cps

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On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2693263	2764538	2753320	2737040	1.40	cps
Antimony	121-1	73721	74740	73801	74087	0.76	cps
Arsenic	75-2	13717	13063	13707	13495	2.78	cps
Barium	135-1	425002	420712	420329	422014	0.61	cps
Barium	137-1	736798	729897	737823	734839	0.59	cps
Beryllium	9-1	12541	12550	12341	12477	0.95	cps
Bismuth	209-1	12256034	12133939	12348461	12246145	0.88	cps
Bismuth	209-2	4808711	4922071	4789473	4840085	1.48	cps
Bromine	81-1	200008	224483	233478	219323	7.90	cps
Cadmium	108-1	1817	2077	2024	1972	6.96	cps
Cadmium	106-1	15225	15375	14801	15134	1.97	cps
Cadmium	111-1	13610	13440	13042	13364	2.18	cps
Calcium	43-1	360692	360505	357944	359713	0.43	cps
Calcium	44-1	5802240	5857443	5858684	5839455	0.55	cps
Carbon	12-1	13948345	14607348	14785008	14446900	3.05	cps
Carbon	12-2	115345	114113	117552	115670	1.51	cps
Chlorine	35-1	785721	851065	889888	842225	6.25	cps
Chlorine	35-2	3691	3517	3477	3562	3.19	cps
Chromium	52-2	259839	261538	259777	260385	0.38	cps
Cobalt	59-2	177601	175190	176243	176345	0.69	cps
Copper	63-2	247961	246044	246911	246972	0.39	cps
Dysprosium	156-1	230390	231643	231358	231130	0.28	cps
Dysprosium	156-2	71634	70501	69640	70592	1.42	cps
Erbium	164-1	186262	184849	183640	184917	0.71	cps
Erbium	164-2	59703	59763	59901	59789	0.17	cps
Gadolinium	160-1	208580	209507	210420	209502	0.44	cps
Gadolinium	160-2	82578	81856	82040	82158	0.46	cps
Holmium	165-1	20807030	20578703	20368723	20584818	1.06	cps
Holmium	165-2	7160722	7314554	6905038	7126771	2.90	cps
Indium	115-1	17414209	17037002	16734250	17061820	2.00	cps
Indium	115-2	1811280	1812455	1729102	1784279	2.68	cps
Iron	54-2	12467340	12309910	12406422	12394557	0.64	cps
Iron	56-2	228877903	229683763	233241243	230600970	1.01	cps
Iron	57-2	5889434	5890367	5801408	5860403	0.87	cps
Krypton	83-1	487	443	480	470	4.96	cps
Lead	206-1	715472	708353	709708	711177	0.53	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	587630	588624	585061	587105	0.31	cps
Lead	208-1	2769466	2739698	2754555	2754573	0.54	cps
Lithium	6-1	5388765	5165614	5174628	5243002	2.41	cps
Magnesium	24-2	2841293	2852279	2839955	2844509	0.24	cps
Manganese	55-2	1062813	1062653	1065117	1063528	0.13	cps
Molybdenum	94-1	526433	534993	526338	529255	0.94	cps
Molybdenum	95-1	127690	128336	125288	127105	1.26	cps
Molybdenum	96-1	213559	214024	213482	213688	0.14	cps
Molybdenum	97-1	80464	79442	78567	79491	1.19	cps
Molybdenum	98-1	206620	203626	204691	204979	0.74	cps
Neodymium	150-1	296545	293828	295431	295268	0.46	cps
Neodymium	150-2	70989	70872	70490	70784	0.37	cps
Nickel	60-2	106609	105756	105974	106113	0.42	cps
Phosphorus	31-2	2514	2530	2414	2486	2.54	cps
Potassium	39-2	1071294	1065532	1067922	1068249	0.27	cps
Rhodium	103-1	15951455	15655751	15369135	15658780	1.86	cps
Rhodium	103-2	6168163	6235007	6023888	6142353	1.76	cps
Scandium	45-1	11309282	11100923	10883539	11097915	1.92	cps
Scandium	45-2	215115	211627	206830	211191	1.97	cps
Selenium	82-1	1023	987	953	988	3.54	cps
Selenium	77-2	410	367	390	389	5.58	cps
Selenium	78-2	273	253	313	280	10.91	cps
Silicon	28-1	40231523	31805059	44146119	38727567	16.28	cps
Silver	107-1	5621	5661	5715	5666	0.83	cps
Silver	109-1	4161	4194	4124	4160	0.84	cps
Sodium	23-2	12219304	12015280	12177010	12137198	0.89	cps
Strontium	86-1	557750	560408	556374	558177	0.37	cps
Strontium	88-1	4996128	5185850	4924488	5035489	2.68	cps
Sulfur	34-1	4894409	4884667	4936731	4905269	0.56	cps
Terbium	159-1	21856277	21044831	21142401	21347837	2.08	cps
Terbium	159-2	6970075	6945002	6724796	6879958	1.96	cps
Thallium	203-1	13661	13901	13707	13756	0.93	cps
Thallium	205-1	32825	33938	33146	33303	1.72	cps
Tin	118-1	43759	51329	46844	47311	8.05	cps
Titanium	47-1	825859	850385	848505	841583	1.62	cps
Uranium	238-1	460885	463379	461446	461904	0.28	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04DUP	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:42:21	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	272218	271669	268496	270794	0.74	cps
Ytterbium	172-1	54033	53297	53494	53608	0.71	cps
Ytterbium	172-2	20770	20980	21214	20988	1.06	cps
Ytterbium	176-1	38660	38021	39238	38640	1.58	cps
Ytterbium	176-2	14995	14658	14498	14717	1.72	cps
Yttrium	89-1	33511600	33544150	33373726	33476492	0.27	cps
Yttrium	89-2	2495906	2503963	2424357	2474742	1.77	cps
Zinc	66-2	123876	120698	121052	121875	1.43	cps
Zirconium	90-1	1226641	1259185	1273627	1253151	1.92	cps
Zirconium	91-1	277676	278792	277806	278091	0.22	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	495791	492079	491069	492980	0.50	cps
Antimony	121-1	140692	143285	142928	142302	0.99	cps
Arsenic	75-2	2330	2317	2434	2360	2.71	cps
Barium	135-1	79801	81857	80495	80718	1.30	cps
Barium	137-1	142191	140953	139811	140985	0.84	cps
Beryllium	9-1	2383	2375	2440	2399	1.49	cps
Bismuth	209-1	12129346	11986319	12001114	12038926	0.65	cps
Bismuth	209-2	4705305	4703827	4725076	4711403	0.25	cps
Bromine	81-1	82363	85227	87199	84930	2.86	cps
Cadmium	108-1	257	393	443	364	26.51	cps
Cadmium	106-1	10237	9920	9817	9991	2.19	cps
Cadmium	111-1	7780	7556	7435	7590	2.31	cps
Calcium	43-1	60426	61718	62073	61406	1.41	cps
Calcium	44-1	1015949	1010279	1009417	1011882	0.35	cps
Carbon	12-1	6186067	6289904	6239382	6238451	0.83	cps
Carbon	12-2	49199	49196	48761	49052	0.51	cps
Chlorine	35-1	352498	356263	358740	355834	0.88	cps
Chlorine	35-2	1433	1413	1483	1443	2.50	cps
Chromium	52-2	48612	48689	47897	48399	0.90	cps
Cobalt	59-2	32196	32400	32226	32274	0.34	cps
Copper	63-2	50734	50576	50643	50651	0.16	cps
Dysprosium	156-1	40381	40578	40327	40429	0.33	cps
Dysprosium	156-2	12336	12523	12226	12361	1.21	cps
Erbium	164-1	32837	32730	32800	32789	0.17	cps
Erbium	164-2	10804	10798	10571	10724	1.24	cps
Gadolinium	160-1	36139	36664	36333	36378	0.73	cps
Gadolinium	160-2	14678	14752	14345	14591	1.49	cps
Holmium	165-1	20087061	19853903	20208167	20049710	0.90	cps
Holmium	165-2	6675713	6839298	6879954	6798322	1.59	cps
Indium	115-1	16853490	16671009	16733413	16752637	0.55	cps
Indium	115-2	1707908	1723652	1717378	1716313	0.46	cps
Iron	54-2	2272712	2233711	2222475	2242966	1.18	cps
Iron	56-2	40476629	40050781	39838469	40121960	0.81	cps
Iron	57-2	1005128	998468	978954	994183	1.37	cps
Krypton	83-1	297	340	297	311	8.04	cps
Lead	206-1	155912	159570	161198	158893	1.70	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	131224	132507	133682	132471	0.93	cps
Lead	208-1	609931	621638	624668	618746	1.26	cps
Lithium	6-1	5259526	5159875	5046360	5155254	2.07	cps
Magnesium	24-2	545800	542439	541292	543177	0.43	cps
Manganese	55-2	193379	196125	192180	193895	1.04	cps
Molybdenum	94-1	91093	93046	101598	95245	5.87	cps
Molybdenum	95-1	24545	24372	24859	24592	1.00	cps
Molybdenum	96-1	39102	40094	40175	39790	1.50	cps
Molybdenum	97-1	15709	15155	15285	15383	1.88	cps
Molybdenum	98-1	39035	39593	39994	39541	1.22	cps
Neodymium	150-1	51080	51749	52087	51639	0.99	cps
Neodymium	150-2	12996	12606	12422	12675	2.31	cps
Nickel	60-2	21006	21396	20739	21047	1.57	cps
Phosphorus	31-2	750	743	717	737	2.39	cps
Potassium	39-2	231697	227721	230545	229988	0.89	cps
Rhodium	103-1	15519603	15288618	15317780	15375333	0.82	cps
Rhodium	103-2	5981058	6097645	6030784	6036496	0.97	cps
Scandium	45-1	10409250	10438288	10316565	10388034	0.61	cps
Scandium	45-2	196674	195225	195829	195909	0.37	cps
Selenium	82-1	130	140	220	163	30.20	cps
Selenium	77-2	70	83	80	78	8.92	cps
Selenium	78-2	53	40	97	63	46.78	cps
Silicon	28-1	4828850	7616997	9241945	7229264	30.87	cps
Silver	107-1	1327	1443	1480	1417	5.65	cps
Silver	109-1	873	953	977	934	5.80	cps
Sodium	23-2	2473452	2452233	2462722	2462802	0.43	cps
Strontium	86-1	97983	100223	100219	99475	1.30	cps
Strontium	88-1	858048	863395	875719	865720	1.05	cps
Sulfur	34-1	1262261	1248205	1235142	1248536	1.09	cps
Terbium	159-1	20430902	20509652	20199622	20380059	0.79	cps
Terbium	159-2	6632969	6480119	6446852	6519980	1.52	cps
Thallium	203-1	3017	3060	3017	3031	0.83	cps
Thallium	205-1	6932	6855	6919	6902	0.59	cps
Tin	118-1	11855	15792	12085	13244	16.68	cps
Titanium	47-1	168022	154525	190413	170987	10.60	cps
Uranium	238-1	86545	86911	85881	86446	0.60	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04LX5	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625L	Dilution Factor :	5
Date & Time Acquired :	2025-05-21 17:45:35	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	52573	51703	50783	51686	1.73	cps
Ytterbium	172-1	9540	9984	10254	9926	3.63	cps
Ytterbium	172-2	3701	3854	3704	3753	2.33	cps
Ytterbium	176-1	8696	8753	8960	8803	1.58	cps
Ytterbium	176-2	2980	3000	3117	3033	2.43	cps
Yttrium	89-1	30546616	30458392	30641645	30548884	0.30	cps
Yttrium	89-2	2264067	2230779	2216746	2237198	1.09	cps
Zinc	66-2	49132	48466	48248	48615	0.95	cps
Zirconium	90-1	232804	218097	217572	222824	3.88	cps
Zirconium	91-1	46775	47106	49810	47897	3.48	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4434710	4452437	4399765	4428971	0.61	cps
Antimony	121-1	11810787	11869074	11869607	11849823	0.29	cps
Arsenic	75-2	17311	17157	16927	17132	1.13	cps
Barium	135-1	13372326	13361302	13185654	13306427	0.79	cps
Barium	137-1	23088389	23359162	22707823	23051791	1.42	cps
Beryllium	9-1	2387176	2394628	2405443	2395749	0.38	cps
Bismuth	209-1	11562533	11518558	11529111	11536734	0.20	cps
Bismuth	209-2	4552207	4497685	4443952	4497948	1.20	cps
Bromine	81-1	171781	189499	197459	186247	7.06	cps
Cadmium	108-1	217131	215732	214616	215826	0.58	cps
Cadmium	106-1	334478	338425	335372	336092	0.62	cps
Cadmium	111-1	2903056	2951846	2907832	2920911	0.92	cps
Calcium	43-1	3877947	3889401	3863141	3876830	0.34	cps
Calcium	44-1	63015114	63781684	63236787	63344529	0.62	cps
Carbon	12-1	16342173	17141783	17951794	17145250	4.69	cps
Carbon	12-2	140047	141064	143459	141523	1.24	cps
Chlorine	35-1	70100087	77663112	79973164	75912121	6.80	cps
Chlorine	35-2	350472	353656	348653	350927	0.72	cps
Chromium	52-2	2623167	2602778	2625172	2617039	0.47	cps
Cobalt	59-2	4428557	4448362	4546977	4474632	1.42	cps
Copper	63-2	33340576	33023365	33227515	33197152	0.48	cps
Dysprosium	156-1	325968	327188	328306	327154	0.36	cps
Dysprosium	156-2	101148	102499	101206	101618	0.75	cps
Erbium	164-1	269890	276407	273919	273405	1.20	cps
Erbium	164-2	87260	87784	87582	87542	0.30	cps
Gadolinium	160-1	298984	301507	298868	299786	0.50	cps
Gadolinium	160-2	116530	117294	115878	116567	0.61	cps
Holmium	165-1	20236965	20252558	20203318	20230947	0.12	cps
Holmium	165-2	6851231	6760904	6784049	6798728	0.69	cps
Indium	115-1	16450235	15992528	16228995	16223920	1.41	cps
Indium	115-2	1664551	1652614	1665341	1660835	0.43	cps
Iron	54-2	24115600	24269526	24229162	24204763	0.33	cps
Iron	56-2	444234007	442238060	441661460	442711176	0.30	cps
Iron	57-2	11317737	11149812	11203932	11223827	0.76	cps
Krypton	83-1	627	633	613	624	1.63	cps
Lead	206-1	43100394	43761399	43257959	43373251	0.80	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	37256214	38068669	36894819	37406567	1.61	cps
Lead	208-1	171945903	173360190	170445000	171917031	0.85	cps
Lithium	6-1	4888032	4905310	4840821	4878054	0.68	cps
Magnesium	24-2	16973394	16966385	17011577	16983785	0.14	cps
Manganese	55-2	11434384	11478525	11238937	11383948	1.12	cps
Molybdenum	94-1	20429368	20633194	20542337	20534966	0.50	cps
Molybdenum	95-1	21425836	21472277	21504748	21467620	0.18	cps
Molybdenum	96-1	24339182	24692302	24625402	24552295	0.76	cps
Molybdenum	97-1	13376783	13476831	13399650	13417755	0.39	cps
Molybdenum	98-1	35148883	35318357	34843724	35103654	0.69	cps
Neodymium	150-1	402388	412290	408269	407649	1.22	cps
Neodymium	150-2	97768	95647	96134	96516	1.15	cps
Nickel	60-2	1230226	1245004	1241195	1238809	0.62	cps
Phosphorus	31-2	3280	3047	3270	3199	4.12	cps
Potassium	39-2	5219524	5286482	5221743	5242583	0.73	cps
Rhodium	103-1	14839161	15044424	14735773	14873119	1.06	cps
Rhodium	103-2	5733289	5720879	5671959	5708709	0.57	cps
Scandium	45-1	10998680	11038819	10916703	10984734	0.57	cps
Scandium	45-2	210687	209666	206909	209088	0.93	cps
Selenium	82-1	180512	182202	178533	180415	1.02	cps
Selenium	77-2	3734	3457	3687	3626	4.09	cps
Selenium	78-2	10934	10554	10471	10653	2.32	cps
Silicon	28-1	42885522	52105599	52370756	49120626	11.00	cps
Silver	107-1	2511648	2529743	2519416	2520269	0.36	cps
Silver	109-1	2371669	2374270	2303550	2349830	1.71	cps
Sodium	23-2	37751357	38389633	37782741	37974577	0.95	cps
Strontium	86-1	5124458	5214555	5236311	5191774	1.14	cps
Strontium	88-1	44438428	44838813	44321163	44532801	0.61	cps
Sulfur	34-1	8180589	8110859	8089574	8127008	0.59	cps
Terbium	159-1	20670233	20601565	20717522	20663106	0.28	cps
Terbium	159-2	6704321	6637021	6604447	6648596	0.77	cps
Thallium	203-1	10068108	10318023	10194747	10193626	1.23	cps
Thallium	205-1	23708853	24492554	24014202	24071870	1.64	cps
Tin	118-1	8637647	8596527	8685973	8640049	0.52	cps
Titanium	47-1	1477793	1673858	1441297	1530983	8.17	cps
Uranium	238-1	32681039	32961325	32653988	32765451	0.52	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-05	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:48:50	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2198251	2166053	2169985	2178097	0.81	cps
Ytterbium	172-1	80536	81181	79151	80289	1.29	cps
Ytterbium	172-2	31350	31083	30635	31023	1.16	cps
Ytterbium	176-1	105148	106881	105642	105890	0.84	cps
Ytterbium	176-2	37724	39050	37787	38187	1.96	cps
Yttrium	89-1	33859720	34354689	34379261	34197890	0.86	cps
Yttrium	89-2	2459301	2460283	2430752	2450112	0.68	cps
Zinc	66-2	3908714	3948731	3871233	3909559	0.99	cps
Zirconium	90-1	22362825	22403751	22597304	22454626	0.56	cps
Zirconium	91-1	5072795	5003125	5001978	5025966	0.81	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4390780	4375931	4382064	4382925	0.17	cps
Antimony	121-1	12055271	12102789	12016443	12058167	0.36	cps
Arsenic	75-2	16276	16914	16577	16589	1.92	cps
Barium	135-1	13090481	13406155	13290096	13262244	1.20	cps
Barium	137-1	22883372	23016930	23181589	23027297	0.65	cps
Beryllium	9-1	2359666	2408386	2464317	2410790	2.17	cps
Bismuth	209-1	11528271	11604261	11585146	11572559	0.34	cps
Bismuth	209-2	4486726	4508980	4489209	4494972	0.27	cps
Bromine	81-1	165377	183230	192841	180483	7.72	cps
Cadmium	108-1	212478	220213	217006	216566	1.79	cps
Cadmium	106-1	337936	346279	346312	343509	1.41	cps
Cadmium	111-1	2960768	2995212	2998145	2984708	0.70	cps
Calcium	43-1	3949688	4044967	3972946	3989200	1.25	cps
Calcium	44-1	63865124	64575224	64256566	64232305	0.55	cps
Carbon	12-1	16214226	17039739	17833237	17029067	4.75	cps
Carbon	12-2	142615	141759	143536	142637	0.62	cps
Chlorine	35-1	76474464	82136109	83345455	80652009	4.55	cps
Chlorine	35-2	356296	358662	364343	359767	1.15	cps
Chromium	52-2	2652881	2622763	2703030	2659558	1.52	cps
Cobalt	59-2	4575322	4559696	4538833	4557951	0.40	cps
Copper	63-2	34375084	34079525	33888430	34114346	0.72	cps
Dysprosium	156-1	312736	318021	314223	314993	0.87	cps
Dysprosium	156-2	100275	100024	100236	100178	0.14	cps
Erbium	164-1	269056	274852	276832	273580	1.48	cps
Erbium	164-2	89359	87881	87304	88181	1.20	cps
Gadolinium	160-1	289407	294393	294047	292616	0.95	cps
Gadolinium	160-2	114261	115639	114550	114817	0.63	cps
Holmium	165-1	20174704	19999344	20321136	20165062	0.80	cps
Holmium	165-2	6940061	6824022	6841182	6868421	0.91	cps
Indium	115-1	16486734	16291147	16178070	16318650	0.96	cps
Indium	115-2	1629357	1671041	1659329	1653243	1.30	cps
Iron	54-2	26512761	25942932	26579351	26345015	1.33	cps
Iron	56-2	489409873	480483300	489630553	486507908	1.07	cps
Iron	57-2	12234881	12368384	12186506	12263257	0.77	cps
Krypton	83-1	633	653	650	646	1.66	cps
Lead	206-1	43613344	44066191	43733818	43804451	0.54	cps

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	37393465	37479285	37815022	37562591	0.59	cps
Lead	208-1	171958848	173370295	174499015	173276053	0.73	cps
Lithium	6-1	4864442	4887813	4881542	4877932	0.25	cps
Magnesium	24-2	17259928	17067933	17174553	17167471	0.56	cps
Manganese	55-2	11702172	11456722	11639720	11599538	1.10	cps
Molybdenum	94-1	20532357	20568056	20677677	20592697	0.37	cps
Molybdenum	95-1	21498385	22169050	21775776	21814403	1.54	cps
Molybdenum	96-1	24572451	25061807	24691495	24775251	1.03	cps
Molybdenum	97-1	13510619	13700263	13516322	13575735	0.79	cps
Molybdenum	98-1	35185429	35316126	35497166	35332907	0.44	cps
Neodymium	150-1	378360	394165	388143	386890	2.06	cps
Neodymium	150-2	92318	91781	91277	91792	0.57	cps
Nickel	60-2	1264070	1266237	1266211	1265506	0.10	cps
Phosphorus	31-2	3194	3150	3387	3244	3.89	cps
Potassium	39-2	5301078	5217766	5317288	5278710	1.01	cps
Rhodium	103-1	14706819	14934276	14834086	14825060	0.77	cps
Rhodium	103-2	5824198	5715121	5779059	5772793	0.95	cps
Scandium	45-1	11023016	11033584	11135364	11063988	0.56	cps
Scandium	45-2	210160	209005	210103	209756	0.31	cps
Selenium	82-1	181808	181741	184087	182545	0.73	cps
Selenium	77-2	3684	3654	3981	3773	4.79	cps
Selenium	78-2	10814	10667	10697	10726	0.72	cps
Silicon	28-1	48298731	46656293	64200204	53051743	18.26	cps
Silver	107-1	2558001	2607497	2579294	2581597	0.96	cps
Silver	109-1	2411094	2485420	2376112	2424209	2.30	cps
Sodium	23-2	37578210	36713206	37443724	37245047	1.25	cps
Strontium	86-1	5447926	5149037	5284971	5293978	2.83	cps
Strontium	88-1	45064964	45207278	44915939	45062727	0.32	cps
Sulfur	34-1	8960192	9075739	8911148	8982360	0.94	cps
Terbium	159-1	20939989	20759607	20403141	20700913	1.32	cps
Terbium	159-2	6560523	6720562	6528387	6603157	1.56	cps
Thallium	203-1	10036913	10498940	10362998	10299617	2.31	cps
Thallium	205-1	23615767	24735629	24340131	24230509	2.34	cps
Tin	118-1	8691492	8782464	8744822	8739593	0.52	cps
Titanium	47-1	1433033	1496571	1529666	1486423	3.30	cps
Uranium	238-1	32351346	32634540	32925997	32637295	0.88	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-06	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:51:33	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2269131	2252468	2252275	2257958	0.43	cps
Ytterbium	172-1	82726	82817	83971	83171	0.83	cps
Ytterbium	172-2	32864	32590	32988	32814	0.62	cps
Ytterbium	176-1	107944	109630	108780	108785	0.77	cps
Ytterbium	176-2	38533	40097	39629	39420	2.04	cps
Yttrium	89-1	34180451	33843945	34189694	34071364	0.58	cps
Yttrium	89-2	2503696	2463362	2495207	2487422	0.85	cps
Zinc	66-2	3998959	3961581	3950749	3970430	0.64	cps
Zirconium	90-1	22822648	22938898	23144657	22968734	0.71	cps
Zirconium	91-1	5078708	5223284	5169561	5157185	1.42	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4426289	4372595	4428173	4409019	0.72	cps
Antimony	121-1	11911154	12111319	12165322	12062598	1.11	cps
Arsenic	75-2	16256	16627	16690	16524	1.42	cps
Barium	135-1	13387583	13519291	13463396	13456757	0.49	cps
Barium	137-1	23032454	23263280	23432557	23242764	0.86	cps
Beryllium	9-1	2385407	2375602	2432695	2397901	1.27	cps
Bismuth	209-1	11455839	11402384	11652907	11503710	1.15	cps
Bismuth	209-2	4495793	4533028	4503441	4510754	0.44	cps
Bromine	81-1	174034	189291	198099	187141	6.51	cps
Cadmium	108-1	215311	221352	218123	218262	1.39	cps
Cadmium	106-1	340731	341389	341647	341256	0.14	cps
Cadmium	111-1	2907091	2983609	2979351	2956684	1.45	cps
Calcium	43-1	3869887	3956058	3930119	3918688	1.13	cps
Calcium	44-1	62525634	64600929	63292472	63473012	1.65	cps
Carbon	12-1	16753641	17276776	18000062	17343493	3.61	cps
Carbon	12-2	142186	140423	142133	141581	0.71	cps
Chlorine	35-1	77704146	82793944	83905852	81467980	4.06	cps
Chlorine	35-2	359399	356757	356122	357426	0.49	cps
Chromium	52-2	2617867	2622685	2630347	2623633	0.24	cps
Cobalt	59-2	4627834	4543855	4600133	4590607	0.93	cps
Copper	63-2	34120708	33937027	33539075	33865603	0.88	cps
Dysprosium	156-1	311619	321829	323723	319057	2.04	cps
Dysprosium	156-2	100467	100343	101379	100730	0.56	cps
Erbium	164-1	270346	273977	271834	272052	0.67	cps
Erbium	164-2	87864	87707	88754	88108	0.64	cps
Gadolinium	160-1	294840	296703	297504	296349	0.46	cps
Gadolinium	160-2	115673	115979	115982	115878	0.15	cps
Holmium	165-1	19912014	20364333	20108071	20128140	1.13	cps
Holmium	165-2	6883390	6830117	6725254	6812920	1.18	cps
Indium	115-1	16071738	16315333	16276472	16221181	0.81	cps
Indium	115-2	1632414	1669302	1638164	1646627	1.21	cps
Iron	54-2	26173878	25520675	25578010	25757521	1.40	cps
Iron	56-2	484890606	471893926	481546939	479443824	1.41	cps
Iron	57-2	12324371	12100476	12387856	12270901	1.23	cps
Krypton	83-1	580	560	633	591	6.41	cps
Lead	206-1	42502209	43246521	42428866	42725865	1.06	cps

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LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36716588	37731904	37226667	37225053	1.36	cps
Lead	208-1	169687359	171820234	172075812	171194468	0.77	cps
Lithium	6-1	4792138	4813683	4796499	4800773	0.24	cps
Magnesium	24-2	17100444	17237153	17021747	17119781	0.64	cps
Manganese	55-2	11508053	11375280	11427053	11436795	0.59	cps
Molybdenum	94-1	20378771	20553870	20787929	20573523	1.00	cps
Molybdenum	95-1	21594376	21630496	21792526	21672466	0.49	cps
Molybdenum	96-1	24555657	24779237	24827057	24720650	0.59	cps
Molybdenum	97-1	13379822	13588514	13634296	13534211	1.00	cps
Molybdenum	98-1	34308544	35231580	35043879	34861334	1.40	cps
Neodymium	150-1	386432	394111	392496	391013	1.04	cps
Neodymium	150-2	94120	99014	93291	95475	3.24	cps
Nickel	60-2	1261780	1255050	1244408	1253746	0.70	cps
Phosphorus	31-2	3174	3344	3130	3216	3.51	cps
Potassium	39-2	5321971	5296294	5288326	5302197	0.33	cps
Rhodium	103-1	14666274	14722929	14742967	14710724	0.27	cps
Rhodium	103-2	5715716	5786620	5662963	5721766	1.08	cps
Scandium	45-1	10972828	11091492	11074819	11046379	0.58	cps
Scandium	45-2	211925	210148	207761	209945	1.00	cps
Selenium	82-1	181482	182769	181852	182034	0.36	cps
Selenium	77-2	3564	3594	3564	3574	0.48	cps
Selenium	78-2	10811	10631	10974	10805	1.59	cps
Silicon	28-1	39877988	44023495	51890628	45264037	13.48	cps
Silver	107-1	2573866	2600734	2594812	2589804	0.55	cps
Silver	109-1	2372867	2408560	2433962	2405130	1.28	cps
Sodium	23-2	37280705	37018581	37002603	37100630	0.42	cps
Strontium	86-1	5119808	5260209	5236244	5205420	1.44	cps
Strontium	88-1	44466076	45061628	45195124	44907609	0.86	cps
Sulfur	34-1	8980412	9025154	8886398	8963988	0.79	cps
Terbium	159-1	20794548	20993770	20912899	20900406	0.48	cps
Terbium	159-2	6645305	6578224	6646218	6623249	0.59	cps
Thallium	203-1	10019576	10353557	10283700	10218945	1.72	cps
Thallium	205-1	23782079	24260430	24329646	24124052	1.24	cps
Tin	118-1	8810877	8718237	8701555	8743556	0.67	cps
Titanium	47-1	1532150	1529720	1518129	1526666	0.49	cps
Uranium	238-1	31970876	32457886	33046445	32491736	1.66	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-04A	Instrumnet Name :	P8
Client Sample ID :	SC-1-SED-051625A	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:54:14	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2261029	2204869	2227333	2231077	1.27	cps
Ytterbium	172-1	82978	84662	89014	85551	3.64	cps
Ytterbium	172-2	32750	31958	33001	32570	1.67	cps
Ytterbium	176-1	106939	110649	107517	108368	1.84	cps
Ytterbium	176-2	39740	39439	39516	39565	0.40	cps
Yttrium	89-1	33976969	34046852	34236373	34086731	0.39	cps
Yttrium	89-2	2512869	2469305	2474016	2485396	0.96	cps
Zinc	66-2	3988316	4001857	4017812	4002662	0.37	cps
Zirconium	90-1	22941456	22787752	23389927	23039712	1.36	cps
Zirconium	91-1	5139751	5110490	5207676	5152639	0.97	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2455901	2475956	2448234	2460030	0.58	cps
Antimony	121-1	2024	1964	1867	1951	4.05	cps
Arsenic	75-2	16590	16670	16486	16582	0.55	cps
Barium	135-1	427441	433511	428883	429945	0.74	cps
Barium	137-1	740640	747643	741132	743139	0.53	cps
Beryllium	9-1	10831	11241	10962	11011	1.90	cps
Bismuth	209-1	12112167	12015088	12114961	12080739	0.47	cps
Bismuth	209-2	4764361	4681888	4657407	4701219	1.19	cps
Bromine	81-1	171214	185505	190188	182302	5.42	cps
Cadmium	108-1	2064	1974	2130	2056	3.83	cps
Cadmium	106-1	15435	15192	15148	15259	1.01	cps
Cadmium	111-1	12444	12397	12280	12373	0.68	cps
Calcium	43-1	249661	248241	248788	248897	0.29	cps
Calcium	44-1	4161416	4085070	4023760	4090082	1.69	cps
Carbon	12-1	12140003	12673727	12909814	12574514	3.14	cps
Carbon	12-2	102454	101686	100776	101638	0.83	cps
Chlorine	35-1	4120579	3782129	3429118	3777275	9.15	cps
Chlorine	35-2	12485	12062	11648	12065	3.47	cps
Chromium	52-2	303168	306826	306937	305644	0.70	cps
Cobalt	59-2	153822	154660	156934	155139	1.04	cps
Copper	63-2	274000	274783	276668	275151	0.50	cps
Dysprosium	156-1	207156	208419	209358	208311	0.53	cps
Dysprosium	156-2	65397	63835	63446	64226	1.61	cps
Erbium	164-1	163280	163202	160559	162347	0.95	cps
Erbium	164-2	51599	53139	53049	52596	1.64	cps
Gadolinium	160-1	184112	186404	183159	184558	0.90	cps
Gadolinium	160-2	73692	73105	72586	73128	0.76	cps
Holmium	165-1	20639476	20512126	20126199	20425934	1.31	cps
Holmium	165-2	6963907	6908345	6982102	6951451	0.55	cps
Indium	115-1	17213942	16918267	17032649	17054953	0.87	cps
Indium	115-2	1758975	1747372	1774793	1760380	0.78	cps
Iron	54-2	12534359	12869709	12843354	12749141	1.46	cps
Iron	56-2	237382183	238693943	236578510	237551545	0.45	cps
Iron	57-2	5908423	6018560	6021119	5982701	1.08	cps
Krypton	83-1	397	443	724	521	33.92	cps
Lead	206-1	652059	650020	652103	651394	0.18	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	535167	535241	540833	537080	0.61	cps
Lead	208-1	2522512	2516917	2515536	2518322	0.15	cps
Lithium	6-1	4967618	4928983	4947127	4947909	0.39	cps
Magnesium	24-2	2709172	2763539	2763437	2745383	1.14	cps
Manganese	55-2	940083	941854	935774	939237	0.33	cps
Molybdenum	94-1	546570	545231	545697	545833	0.12	cps
Molybdenum	95-1	126045	125722	126254	126007	0.21	cps
Molybdenum	96-1	218299	213488	215250	215679	1.13	cps
Molybdenum	97-1	78735	78218	78896	78616	0.45	cps
Molybdenum	98-1	203544	204546	202023	203371	0.62	cps
Neodymium	150-1	272681	275190	283257	277043	1.99	cps
Neodymium	150-2	66451	65380	66158	65996	0.84	cps
Nickel	60-2	97897	98582	97967	98149	0.38	cps
Phosphorus	31-2	2200	2287	2314	2267	2.61	cps
Potassium	39-2	980469	971989	968343	973600	0.64	cps
Rhodium	103-1	15706810	15478032	15464042	15549628	0.88	cps
Rhodium	103-2	5935411	6003497	6010341	5983083	0.69	cps
Scandium	45-1	11306322	11035072	11015760	11119051	1.46	cps
Scandium	45-2	207763	207115	205759	206879	0.49	cps
Selenium	82-1	923	930	620	824	21.50	cps
Selenium	77-2	377	353	317	349	8.67	cps
Selenium	78-2	250	200	197	216	13.86	cps
Silicon	28-1	35009114	32669606	41528924	36402548	12.61	cps
Silver	107-1	5852	5828	5091	5590	7.74	cps
Silver	109-1	3954	3684	3657	3765	4.36	cps
Sodium	23-2	12305414	12474192	12224349	12334652	1.03	cps
Strontium	86-1	428524	430849	429977	429783	0.27	cps
Strontium	88-1	3884348	3919509	3866592	3890150	0.69	cps
Sulfur	34-1	4100275	4103161	4034941	4079459	0.95	cps
Terbium	159-1	21289674	20813823	20953914	21019137	1.16	cps
Terbium	159-2	6876132	6694358	6617458	6729316	1.97	cps
Thallium	203-1	15820	15272	15072	15388	2.51	cps
Thallium	205-1	37848	36946	36074	36956	2.40	cps
Tin	118-1	78944	75129	77588	77220	2.50	cps
Titanium	47-1	820166	795076	799577	804940	1.66	cps
Uranium	238-1	369936	373215	376082	373078	0.82	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-07	Instrumnet Name :	P8
Client Sample ID :	SC-COMP-SED-051625	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 17:56:58	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	345869	348624	348199	347564	0.43	cps
Ytterbium	172-1	47870	47214	47796	47626	0.75	cps
Ytterbium	172-2	18614	18433	19257	18768	2.31	cps
Ytterbium	176-1	35692	35892	36216	35933	0.74	cps
Ytterbium	176-2	13450	13560	13137	13382	1.64	cps
Yttrium	89-1	33468148	33392691	32791006	33217282	1.12	cps
Yttrium	89-2	2428688	2419416	2431318	2426474	0.26	cps
Zinc	66-2	121710	122739	122121	122190	0.42	cps
Zirconium	90-1	1301470	1292120	1283385	1292325	0.70	cps
Zirconium	91-1	289907	302206	293691	295268	2.13	cps

Reviewed By:Janvi
On:5/23/2025 9:40:12 AM
Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1844801	1904710	1905718	1885076	1.85	cps
Antimony	121-1	1433	1573	1423	1477	5.68	cps
Arsenic	75-2	9617	9660	9540	9606	0.63	cps
Barium	135-1	527464	537434	535860	533586	1.00	cps
Barium	137-1	922230	929106	934971	928769	0.69	cps
Beryllium	9-1	7783	7703	7667	7718	0.77	cps
Bismuth	209-1	12132669	12200606	12116974	12150083	0.37	cps
Bismuth	209-2	4774571	4743131	4680430	4732711	1.01	cps
Bromine	81-1	166934	181398	189073	179135	6.28	cps
Cadmium	108-1	1233	1493	1310	1346	9.93	cps
Cadmium	106-1	13507	13190	13173	13290	1.41	cps
Cadmium	111-1	10671	10301	10484	10486	1.77	cps
Calcium	43-1	202852	206792	205299	204981	0.97	cps
Calcium	44-1	3395678	3350235	3336907	3360940	0.92	cps
Carbon	12-1	9175738	9740500	9895117	9603785	3.94	cps
Carbon	12-2	79279	78750	80133	79387	0.88	cps
Chlorine	35-1	2019784	2029917	1984032	2011244	1.20	cps
Chlorine	35-2	7639	7649	7639	7642	0.08	cps
Chromium	52-2	216703	217105	216215	216674	0.21	cps
Cobalt	59-2	168947	169966	169364	169426	0.30	cps
Copper	63-2	201165	204650	201794	202536	0.92	cps
Dysprosium	156-1	153447	156778	156673	155632	1.22	cps
Dysprosium	156-2	46791	46387	46149	46443	0.70	cps
Erbium	164-1	114202	115489	113368	114353	0.93	cps
Erbium	164-2	37202	36801	37606	37203	1.08	cps
Gadolinium	160-1	135156	136231	137380	136256	0.82	cps
Gadolinium	160-2	52985	52673	52767	52809	0.30	cps
Holmium	165-1	20372231	19845804	20264698	20160911	1.38	cps
Holmium	165-2	6865897	6817021	7003788	6895569	1.40	cps
Indium	115-1	16981233	17098968	17031864	17037355	0.35	cps
Indium	115-2	1724124	1721912	1751120	1732385	0.94	cps
Iron	54-2	8986427	8731963	8842310	8853567	1.44	cps
Iron	56-2	165701651	164120524	163944904	164589026	0.59	cps
Iron	57-2	4203890	4187749	4103489	4165043	1.29	cps
Krypton	83-1	380	343	337	353	6.60	cps
Lead	206-1	581826	583448	578903	581392	0.40	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	478194	480875	482674	480581	0.47	cps
Lead	208-1	2248893	2265209	2257672	2257258	0.36	cps
Lithium	6-1	4798826	4817105	4912008	4842646	1.25	cps
Magnesium	24-2	2477325	2437805	2493268	2469466	1.16	cps
Manganese	55-2	781730	773296	784730	779919	0.76	cps
Molybdenum	94-1	374876	372367	376837	374694	0.60	cps
Molybdenum	95-1	89590	90116	89264	89657	0.48	cps
Molybdenum	96-1	152336	154690	155236	154087	1.00	cps
Molybdenum	97-1	56133	56869	56397	56466	0.66	cps
Molybdenum	98-1	146231	145844	146535	146203	0.24	cps
Neodymium	150-1	212452	215075	212824	213451	0.66	cps
Neodymium	150-2	52874	51556	51117	51849	1.76	cps
Nickel	60-2	94874	95300	92824	94332	1.40	cps
Phosphorus	31-2	1733	1747	1643	1708	3.29	cps
Potassium	39-2	741491	730452	731902	734615	0.82	cps
Rhodium	103-1	15321794	15522453	15304537	15382928	0.79	cps
Rhodium	103-2	5867063	6002289	6084290	5984547	1.83	cps
Scandium	45-1	10852761	10967944	10710435	10843713	1.19	cps
Scandium	45-2	204339	200995	203140	202825	0.84	cps
Selenium	82-1	627	710	700	679	6.70	cps
Selenium	77-2	233	267	260	253	6.96	cps
Selenium	78-2	170	180	173	174	2.92	cps
Silicon	28-1	38550673	51342397	35740084	41877718	19.86	cps
Silver	107-1	3611	3784	3841	3745	3.20	cps
Silver	109-1	2684	2680	2837	2734	3.27	cps
Sodium	23-2	13122125	13111370	13231723	13155072	0.51	cps
Strontium	86-1	368090	368554	362517	366387	0.92	cps
Strontium	88-1	3305654	3373606	3342834	3340698	1.02	cps
Sulfur	34-1	2766465	2825407	2764169	2785347	1.25	cps
Terbium	159-1	21246501	20941222	21160154	21115959	0.75	cps
Terbium	159-2	6645342	6682606	6656547	6661498	0.29	cps
Thallium	203-1	9901	9557	9754	9737	1.77	cps
Thallium	205-1	23501	23334	23014	23283	1.06	cps
Tin	118-1	106314	107676	107046	107012	0.64	cps
Titanium	47-1	674208	656709	692465	674461	2.65	cps
Uranium	238-1	180317	184294	183795	182802	1.19	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	Q2085-08	Instrumnet Name :	P8
Client Sample ID :	DUPE-1-SC	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:00:10	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	188677	187202	188181	188020	0.40	cps
Ytterbium	172-1	31892	31327	31615	31611	0.89	cps
Ytterbium	172-2	12416	12433	12623	12490	0.92	cps
Ytterbium	176-1	24272	24817	24877	24655	1.35	cps
Ytterbium	176-2	9383	9017	9450	9283	2.52	cps
Yttrium	89-1	32478679	32422630	32580897	32494069	0.25	cps
Yttrium	89-2	2386340	2341245	2311248	2346277	1.61	cps
Zinc	66-2	117452	118877	117210	117846	0.76	cps
Zirconium	90-1	879640	888347	883366	883784	0.49	cps
Zirconium	91-1	196774	205716	207864	203451	2.89	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3737310	3673111	3667973	3692798	1.05	cps
Antimony	121-1	11542580	11642609	11696293	11627161	0.67	cps
Arsenic	75-2	226089	224958	227129	226059	0.48	cps
Barium	135-1	14084006	13900686	14007046	13997246	0.66	cps
Barium	137-1	24227045	24017642	23897780	24047489	0.69	cps
Beryllium	9-1	2330081	2278238	2373402	2327240	2.05	cps
Bismuth	209-1	10314316	10456093	10345822	10372077	0.72	cps
Bismuth	209-2	4088773	4033522	4070362	4064219	0.69	cps
Bromine	81-1	39750	40261	40157	40056	0.67	cps
Cadmium	108-1	214622	217928	218002	216850	0.89	cps
Cadmium	106-1	318101	317693	323648	319814	1.04	cps
Cadmium	111-1	2827557	2837566	2822572	2829232	0.27	cps
Calcium	43-1	16324285	16662906	16436800	16474664	1.05	cps
Calcium	44-1	266492763	265891696	266458723	266281060	0.13	cps
Carbon	12-1	4209810	4211049	4308915	4243258	1.34	cps
Carbon	12-2	37471	37271	37200	37314	0.38	cps
Chlorine	35-1	811882	789366	778982	793410	2.12	cps
Chlorine	35-2	2970	2897	2580	2816	7.36	cps
Chromium	52-2	2335572	2338431	2331236	2335080	0.16	cps
Cobalt	59-2	4204122	4207789	4176685	4196198	0.41	cps
Copper	63-2	31382921	31368987	31273630	31341846	0.19	cps
Dysprosium	156-1	660	673	740	691	6.20	cps
Dysprosium	156-2	147	127	150	141	8.94	cps
Erbium	164-1	740	770	737	749	2.45	cps
Erbium	164-2	237	273	243	251	7.78	cps
Gadolinium	160-1	490	583	503	526	9.61	cps
Gadolinium	160-2	223	177	193	198	11.96	cps
Holmium	165-1	18623523	18679668	18231204	18511465	1.32	cps
Holmium	165-2	6418219	6364781	6324439	6369146	0.74	cps
Indium	115-1	14667481	14710203	14581205	14652963	0.45	cps
Indium	115-2	1422014	1418502	1426204	1422240	0.27	cps
Iron	54-2	23537925	23296202	23141435	23325187	0.86	cps
Iron	56-2	427779580	433075287	433828327	431561065	0.76	cps
Iron	57-2	10885589	10932837	10951214	10923214	0.31	cps
Krypton	83-1	290	327	303	307	6.05	cps
Lead	206-1	40540520	40914477	40797091	40750696	0.47	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35064944	35022017	35219178	35102046	0.30	cps
Lead	208-1	161579173	162228699	163443971	162417281	0.58	cps
Lithium	6-1	4258707	4283809	4319148	4287221	0.71	cps
Magnesium	24-2	62319076	61379426	63012679	62237060	1.32	cps
Manganese	55-2	9745875	9564126	9546527	9618843	1.15	cps
Molybdenum	94-1	40846003	40302141	40974891	40707678	0.88	cps
Molybdenum	95-1	58236199	58017449	59134651	58462766	1.01	cps
Molybdenum	96-1	63452479	63612244	63918532	63661085	0.37	cps
Molybdenum	97-1	35633603	36164332	36619760	36139232	1.37	cps
Molybdenum	98-1	93869872	93704265	96207409	94593849	1.48	cps
Neodymium	150-1	1197	1383	1313	1298	7.27	cps
Neodymium	150-2	113	130	107	117	10.30	cps
Nickel	60-2	1069443	1068616	1072258	1070106	0.18	cps
Phosphorus	31-2	36863	36195	36583	36547	0.92	cps
Potassium	39-2	22227384	21837625	21961079	22008696	0.91	cps
Rhodium	103-1	12928629	13116618	13307544	13117597	1.44	cps
Rhodium	103-2	5148853	5149395	5126134	5141461	0.26	cps
Scandium	45-1	9457949	9608640	9603040	9556543	0.89	cps
Scandium	45-2	185492	181603	186133	184409	1.33	cps
Selenium	82-1	164877	167697	165703	166092	0.87	cps
Selenium	77-2	2907	2810	2864	2860	1.69	cps
Selenium	78-2	9587	9777	9653	9672	1.00	cps
Silicon	28-1	68835027	68980754	69737284	69184355	0.70	cps
Silver	107-1	13718195	13793573	13963649	13825139	0.91	cps
Silver	109-1	12893429	13057691	13052939	13001353	0.72	cps
Sodium	23-2	117017492	115482398	117153212	116551034	0.80	cps
Strontium	86-1	3774999	3778071	3796240	3783103	0.30	cps
Strontium	88-1	32362785	32781412	32757817	32634005	0.72	cps
Sulfur	34-1	1373298	1353385	1375222	1367302	0.88	cps
Terbium	159-1	19023877	19030568	19285456	19113300	0.78	cps
Terbium	159-2	6028267	6121298	6113634	6087733	0.85	cps
Thallium	203-1	10049383	10063300	10015999	10042894	0.24	cps
Thallium	205-1	23907945	23640765	23685024	23744578	0.60	cps
Tin	118-1	9205200	9591183	9394793	9397059	2.05	cps
Titanium	47-1	15712384	15869866	15704399	15762216	0.59	cps
Uranium	238-1	32138450	32335768	32692360	32388859	0.87	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:04:17	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1774629	1781253	1797811	1784564	0.67	cps
Ytterbium	172-1	853	957	993	934	7.77	cps
Ytterbium	172-2	380	373	453	402	11.04	cps
Ytterbium	176-1	51972	52152	52450	52192	0.46	cps
Ytterbium	176-2	17402	17325	17018	17248	1.18	cps
Yttrium	89-1	27845915	27709210	27885915	27813680	0.33	cps
Yttrium	89-2	2097991	2057283	2072779	2076018	0.99	cps
Zinc	66-2	3562930	3555238	3545423	3554530	0.25	cps
Zirconium	90-1	20685577	20475332	20783366	20648092	0.76	cps
Zirconium	91-1	4563468	4558524	4639698	4587230	0.99	cps

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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	153	210	177	180	15.82	cps
Antimony	121-1	603	560	600	588	4.10	cps
Arsenic	75-2	3	10	3	6	69.34	cps
Barium	135-1	193	153	217	188	17.06	cps
Barium	137-1	317	293	290	300	4.84	cps
Beryllium	9-1	235	241	251	243	3.38	cps
Bismuth	209-1	11807407	12031682	12299150	12046080	2.04	cps
Bismuth	209-2	4829783	4751568	4650271	4743874	1.90	cps
Bromine	81-1	32494	31492	33376	32454	2.90	cps
Cadmium	108-1	23	20	37	27	33.08	cps
Cadmium	106-1	9397	9373	9510	9427	0.78	cps
Cadmium	111-1	6601	6571	6645	6606	0.56	cps
Calcium	43-1	1760	1603	1683	1682	4.66	cps
Calcium	44-1	40870	40877	40977	40908	0.15	cps
Carbon	12-1	3161847	3064212	3054772	3093610	1.92	cps
Carbon	12-2	23298	24063	24147	23836	1.96	cps
Chlorine	35-1	298140	293121	287668	292976	1.79	cps
Chlorine	35-2	1153	1063	993	1070	7.50	cps
Chromium	52-2	1437	1270	1247	1318	7.86	cps
Cobalt	59-2	50	93	77	73	29.80	cps
Copper	63-2	1820	1860	2047	1909	6.34	cps
Dysprosium	156-1	13	13	17	14	13.35	cps
Dysprosium	156-2	0	10	7	6	91.64	cps
Erbium	164-1	107	140	150	132	17.16	cps
Erbium	164-2	37	50	70	52	32.12	cps
Gadolinium	160-1	107	113	140	120	14.70	cps
Gadolinium	160-2	23	33	43	33	30.00	cps
Holmium	165-1	19142806	19725690	19457765	19442087	1.50	cps
Holmium	165-2	6787540	6720802	6749637	6752660	0.50	cps
Indium	115-1	16886363	16811778	16954182	16884108	0.42	cps
Indium	115-2	1755174	1733786	1695609	1728190	1.75	cps
Iron	54-2	993	993	877	954	7.06	cps
Iron	56-2	12873	15694	13270	13945	10.95	cps
Iron	57-2	343	380	290	338	13.40	cps
Krypton	83-1	253	270	257	260	3.39	cps
Lead	206-1	1350	1400	1343	1365	2.27	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1303	1143	1123	1190	8.29	cps
Lead	208-1	5440	5354	5284	5359	1.46	cps
Lithium	6-1	4808518	4868062	4704518	4793699	1.73	cps
Magnesium	24-2	477	390	447	438	10.05	cps
Manganese	55-2	1433	1540	1403	1459	4.92	cps
Molybdenum	94-1	820	890	957	889	7.69	cps
Molybdenum	95-1	393	363	387	381	4.13	cps
Molybdenum	96-1	560	453	520	511	10.54	cps
Molybdenum	97-1	177	180	210	189	9.72	cps
Molybdenum	98-1	500	500	517	506	1.90	cps
Neodymium	150-1	17	23	30	23	28.56	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	347	277	307	310	11.33	cps
Phosphorus	31-2	93	70	93	86	15.74	cps
Potassium	39-2	15265	15111	15158	15178	0.52	cps
Rhodium	103-1	15873423	15620210	15714509	15736047	0.81	cps
Rhodium	103-2	6169021	6220164	6025638	6138275	1.64	cps
Scandium	45-1	10407861	10455663	10592080	10485201	0.91	cps
Scandium	45-2	198216	199134	197279	198210	0.47	cps
Selenium	82-1	30	7	-40	-1	-3201.33	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	20	10	17	16	32.73	cps
Silicon	28-1	452286	468330	454492	458369	1.90	cps
Silver	107-1	387	467	423	426	9.41	cps
Silver	109-1	310	213	247	257	19.13	cps
Sodium	23-2	41947	42201	41663	41937	0.64	cps
Strontium	86-1	567	570	487	541	8.72	cps
Strontium	88-1	647	750	780	726	9.64	cps
Sulfur	34-1	563223	564958	566279	564820	0.27	cps
Terbium	159-1	20399261	20442090	20508146	20449832	0.27	cps
Terbium	159-2	6575869	6474718	6513003	6521197	0.78	cps
Thallium	203-1	597	573	493	554	9.77	cps
Thallium	205-1	1280	1180	1313	1258	5.52	cps
Tin	118-1	4354	4291	4628	4424	4.05	cps
Titanium	47-1	250	257	220	242	8.06	cps
Uranium	238-1	67	113	83	88	26.94	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135886

LB Number :	LB135886	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-21 18:16:41	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	13	13	11	34.61	cps
Ytterbium	172-1	87	140	77	101	33.67	cps
Ytterbium	172-2	47	50	37	44	15.61	cps
Ytterbium	176-1	2197	2350	2157	2235	4.57	cps
Ytterbium	176-2	500	643	597	580	12.60	cps
Yttrium	89-1	30115898	30538192	30171543	30275211	0.76	cps
Yttrium	89-2	2238720	2229248	2218344	2228771	0.46	cps
Zinc	66-2	837	813	807	819	1.92	cps
Zirconium	90-1	1713	1927	1937	1859	6.79	cps
Zirconium	91-1	430	383	377	397	7.33	cps

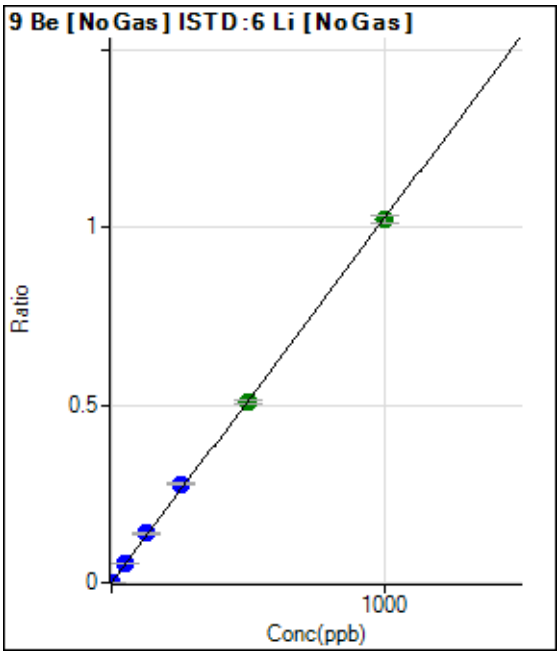
Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

Calibration for 009CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8052225MS.b\
Analysis File: P8052225MS.batch.bin
DA Date-Time: 2025-05-22 13:50:07
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-05-22 12:27:00
2	005CALS.d	S02	2025-05-22 12:30:23
3	007CALB.d	S03	2025-05-22 12:37:13
4	008CALS.d	S04	2025-05-22 12:41:56
5	009CALS.d	S05	2025-05-22 12:44:58
6	010CALS.d	S06	2025-05-22 12:48:00
7	011CALS.d	S07	2025-05-22 12:50:45
8	012CALS.d	S08	2025-05-22 12:53:32

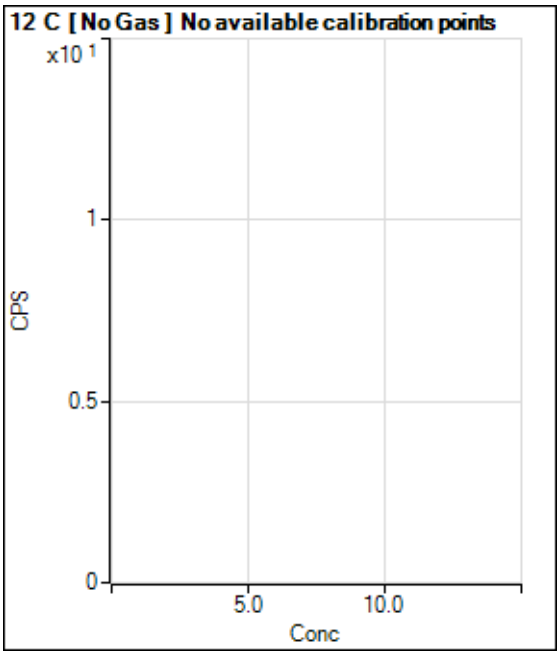
Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.41	0.0000	P	11.4
2	☐	1.000	1.173	4581.40	0.0012	P	1.8
3	☐	50.000	55.077	207018.37	0.0565	P	0.9
4	☐	125.000	134.636	498102.59	0.1380	P	1.2
5	☐	250.000	270.894	970571.77	0.2777	P	1.4
6	☐	500.000	495.451	1739260.86	0.5078	A	1.4
7	☐	1000.000	995.593	3342464.98	1.0204	A	2.1
8	☐			742.43	0.0002	P	14.7

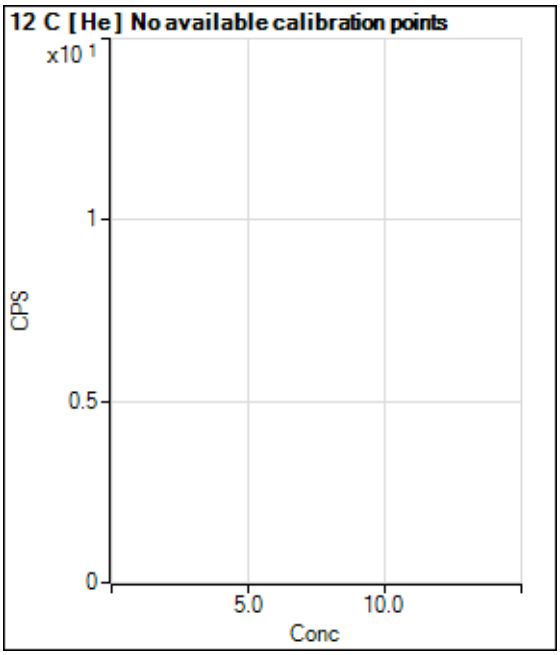
y = 0.0010 * x + 2.9928E-005
R = 0.9997
DL = 0.009967
BEC = 0.0292

Weight: <None>
Min Conc: 0

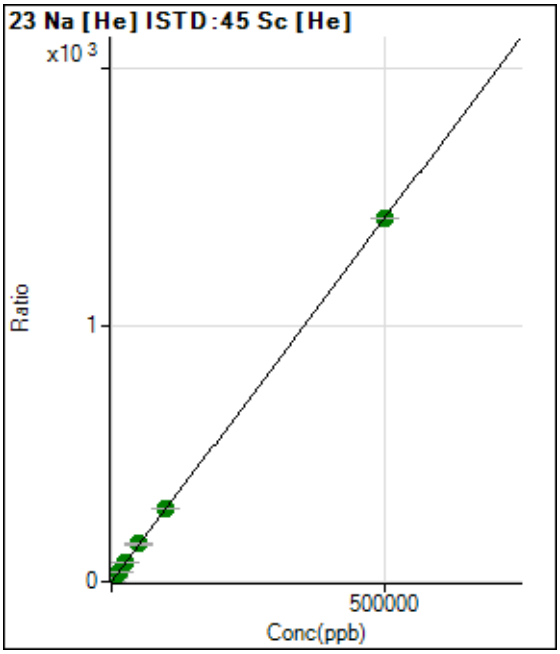


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2972438.95		A	0.7
2	☐			2846215.76		A	0.8
3	☐			2854414.61		A	0.7
4	☐			2796766.59		A	0.7
5	☐			2771297.29		A	0.2
6	☐			2786478.16		A	0.6
7	☐			2844401.41		A	1.1
8	☐			2535678.07		A	0.0

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			19597.56		P	1.8
2	☐			18940.09		P	1.6
3	☐			18892.23		P	2.1
4	☐			18829.92		P	0.6
5	☐			19082.49		P	1.9
6	☐			19326.13		P	1.1
7	☐			20453.22		P	0.7
8	☐			22195.71		P	0.5

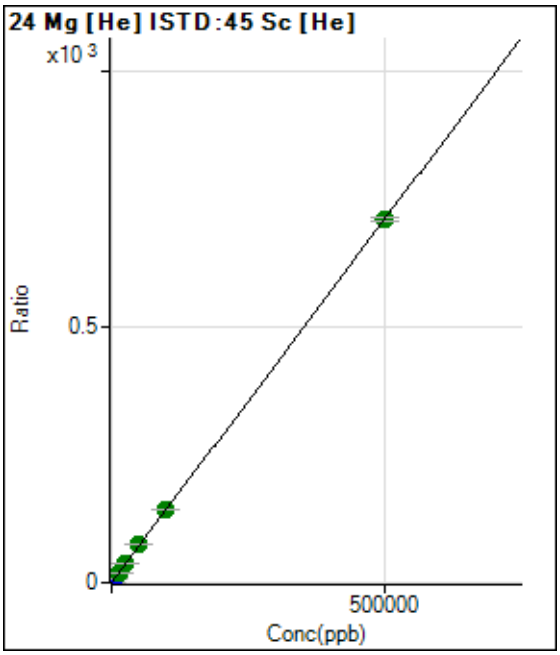


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29251.57	0.2439	P	1.5
2	☐	500.000	522.913	212166.57	1.7253	P	0.6
3	☐	5000.000	5172.675	1782475.57	14.8977	A	2.0
4	☐	12500.000	12779.849	4226019.69	36.4482	A	1.9
5	☐	25000.000	25969.519	8434730.57	73.8136	A	0.6
6	☐	50000.000	51862.316	16227749.06	147.1659	A	3.0
7	☐	100000.00	100566.31	31342938.70	285.1406	A	0.8
8	☐	500000.00	499643.28	145081634.5	1,415.695	A	0.1

y = 0.0028 * x + 0.2439
R = 1.0000
DL = 3.962
BEC = 86.09

Weight: <None>
Min Conc: 0

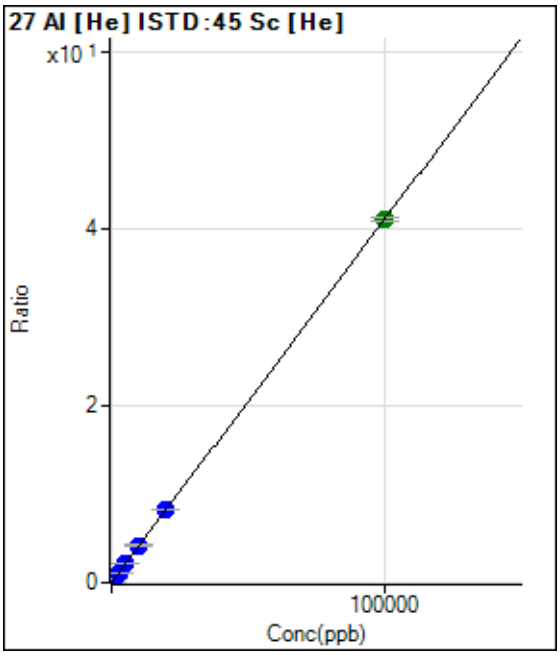
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LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	812.26	0.0068	P	7.7
2	☐	500.000	540.445	95113.03	0.7734	P	0.9
3	☐	5000.000	5320.933	903844.52	7.5546	P	0.5
4	☐	12500.000	12978.501	2135400.61	18.4169	A	1.1
5	☐	25000.000	25803.868	4183484.87	36.6099	A	1.6
6	☐	50000.000	52265.904	8176559.53	74.1466	A	0.7
7	☐	100000.00	101174.85	15775133.79	143.5246	A	1.2
8	☐	500000.00	499483.03	72610113.36	708.5300	A	1.0

y = 0.0014 * x + 0.0068
R = 1.0000
DL = 1.107
BEC = 4.774

Weight: <None>
Min Conc: 0

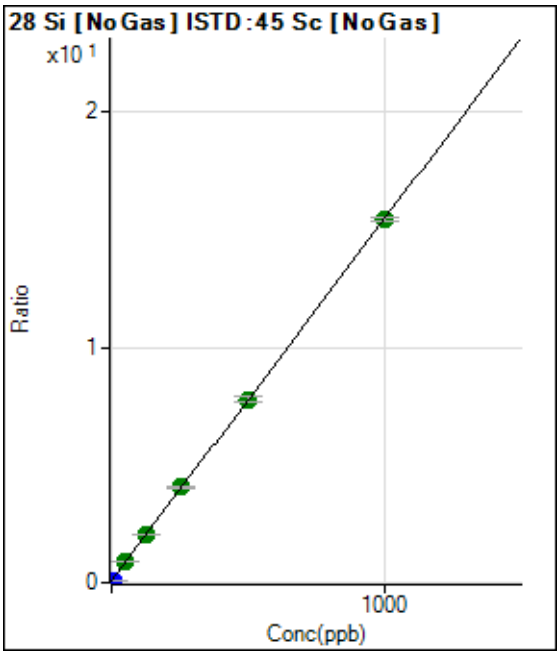


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0010	P	16.0
2	☐	20.000	21.251	1195.62	0.0097	P	5.8
3	☐	1000.000	1022.523	50337.89	0.4207	P	0.5
4	☐	2500.000	2566.397	122261.11	1.0545	P	0.8
5	☐	5000.000	5149.817	241671.53	2.1149	P	0.3
6	☐	10000.000	10315.977	467062.47	4.2356	P	1.6
7	☐	20000.000	20197.798	911400.67	8.2919	P	1.2
8	☐	100000.00	99919.466	4203337.23	41.0166	A	1.0

y = 4.1049E-004 * x + 0.0010
R = 1.0000
DL = 1.169
BEC = 2.439

Weight: <None>
Min Conc: 0

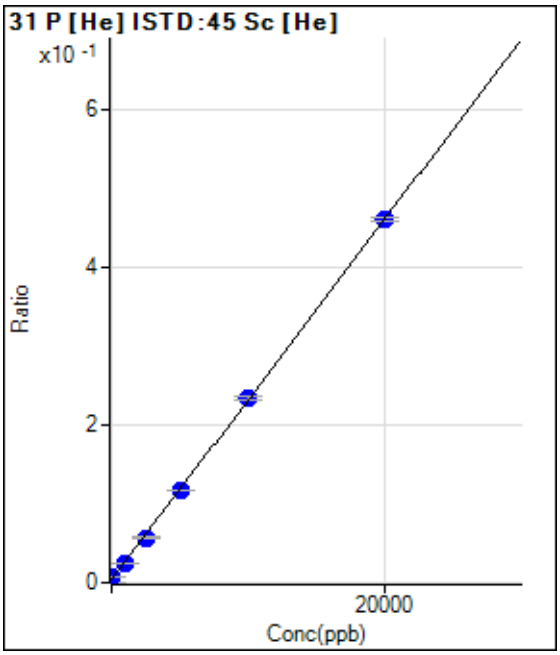
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LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	576126.20	0.0914	P	2.7
2	☐	10.000	0.569	637293.25	0.1001	P	3.4
3	☐	50.000	51.195	5631939.98	0.8788	A	1.1
4	☐	125.000	127.041	12680887.31	2.0454	A	1.8
5	☐	250.000	257.394	24005340.75	4.0503	A	0.6
6	☐	500.000	501.743	45691034.32	7.8085	A	2.8
7	☐	1000.000	997.059	87928838.69	15.4269	A	1.0
8	☐			609520.03	0.1112	P	5.3

y = 0.0154 * x + 0.0914
R = 0.9999
DL = 0.4772
BEC = 5.94

Weight: <None>
Min Conc: 0

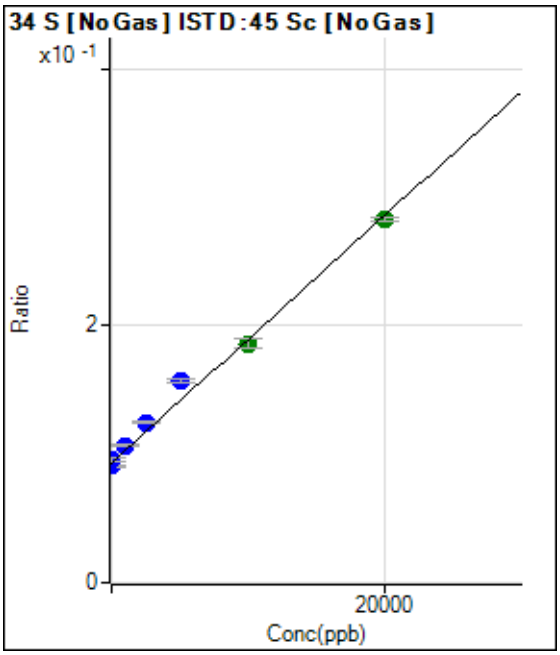


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-142.395	63.34	0.0005	P	8.9
2	☐	0.000	142.395	865.59	0.0070	P	5.1
3	☐	1000.000	906.599	2932.55	0.0245	P	0.6
4	☐	2500.000	2325.213	6602.68	0.0569	P	1.6
5	☐	5000.000	4969.916	13416.28	0.1174	P	1.2
6	☐	10000.000	10104.846	25893.17	0.2348	P	2.0
7	☐	20000.000	19981.617	50627.92	0.4606	P	1.2
8	☐			83.33	0.0008	P	24.9

y = 2.2863E-005 * x + 0.0038
R = 0.9999
DL = 26.5
BEC = 165.5

Weight: <None>
Min Conc: 0

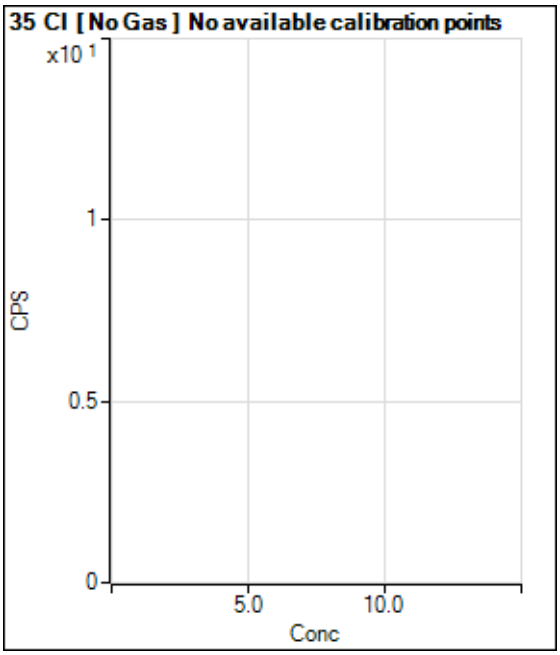
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Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-229.623	574497.69	0.0911	P	1.1
2	☐	0.000	229.623	608133.90	0.0955	P	2.7
3	☐	1000.000	1391.570	683965.66	0.1067	P	0.7
4	☐	2500.000	3261.171	773404.98	0.1247	P	1.5
5	☐	5000.000	6708.474	935979.87	0.1580	P	1.9
6	☐	10000.000	9652.408	1090173.08	0.1863	A	3.6
7	☐	20000.000	19631.953	1610157.23	0.2825	A	1.2
8	☐			491381.87	0.0897	P	1.0

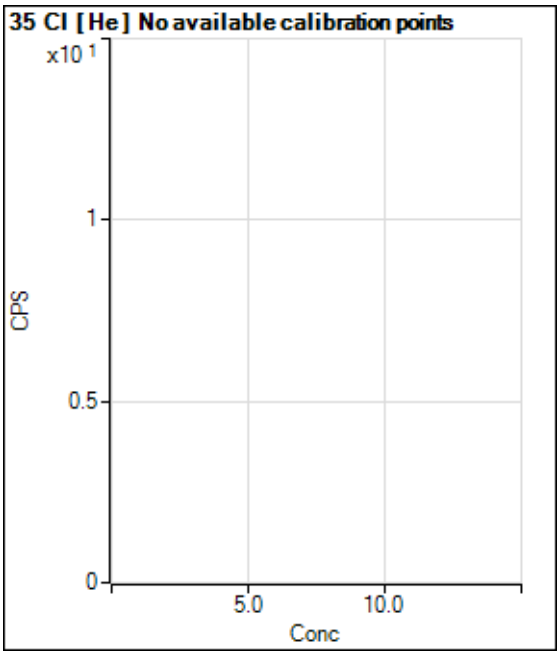
y = 9.6366E-006 * x + 0.0933
R = 0.9951
DL = 561
BEC = 9683

Weight: <None>
Min Conc: 0

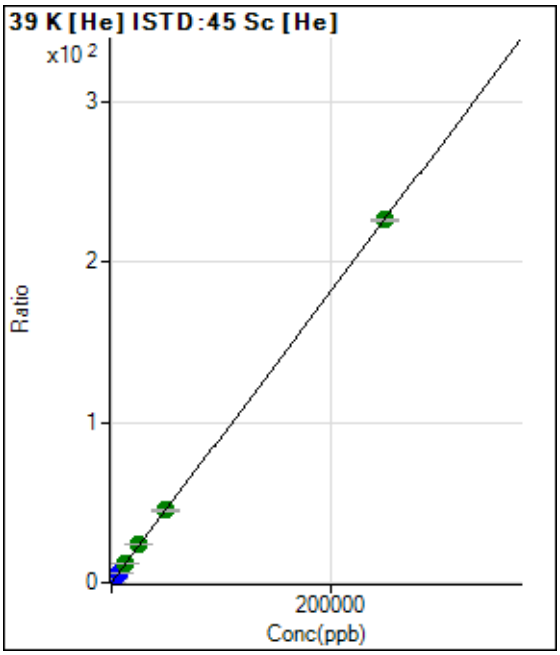


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			108434.32		P	0.2
2	☐			109859.34		P	0.3
3	☐			129177.45		P	0.4
4	☐			129423.23		P	0.8
5	☐			131647.64		P	1.2
6	☐			140148.26		P	1.2
7	☐			161539.18		P	1.8
8	☐			120982.46		P	0.2

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			411.12		P	10.1
2	☐			450.01		P	0.0
3	☐			447.79		P	8.4
4	☐			472.24		P	11.2
5	☐			477.79		P	7.5
6	☐			517.79		P	16.9
7	☐			655.58		P	4.9
8	☐			414.45		P	8.8

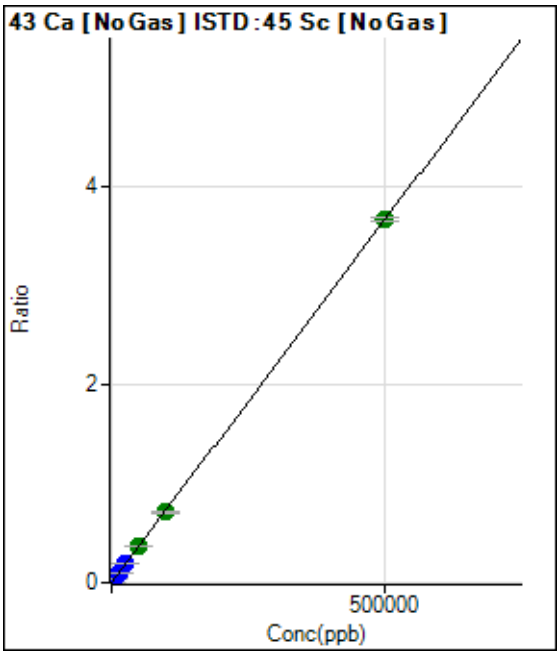


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14753.18	0.1230	P	1.1
2	☐	500.000	518.599	72838.09	0.5923	P	0.6
3	☐	2500.000	2592.376	295373.93	2.4689	P	0.6
4	☐	6250.000	6426.012	688484.31	5.9379	P	0.9
5	☐	12500.000	12815.037	1339192.35	11.7194	A	1.1
6	☐	25000.000	26015.472	2609627.36	23.6645	A	0.9
7	☐	50000.000	49777.367	4964400.41	45.1668	A	1.2
8	☐	250000.00	249921.86	23189227.99	226.2787	A	0.2

y = 9.0491E-004 * x + 0.1230
R = 1.0000
DL = 4.295
BEC = 135.9

Weight: <None>
Min Conc: 0

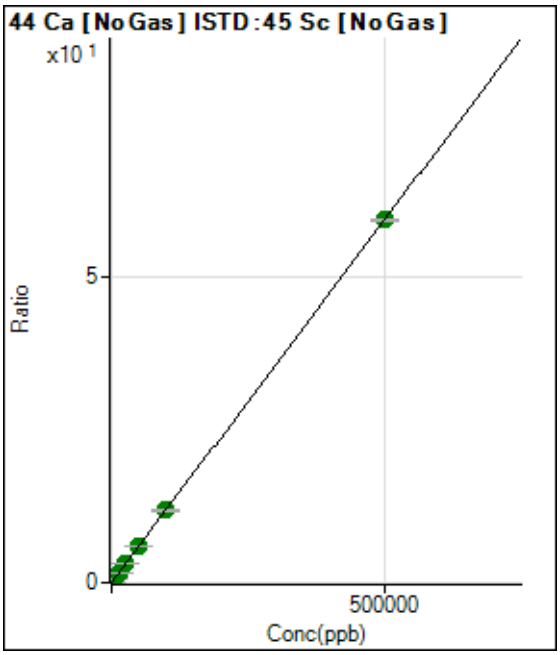
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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1243.40	0.0002	P	8.4
2	☐	500.000	512.577	25103.06	0.0039	P	1.5
3	☐	5000.000	5023.190	236465.02	0.0369	P	0.9
4	☐	12500.000	12458.056	565554.10	0.0912	P	1.4
5	☐	25000.000	25777.153	1117157.66	0.1885	P	1.4
6	☐	50000.000	50065.659	2141426.05	0.3660	A	3.0
7	☐	100000.00	97329.516	4054334.66	0.7113	A	2.9
8	☐	500000.00	500489.47	20035887.76	3.6568	A	0.9

y = 7.3060E-006 * x + 1.9735E-004
R = 1.0000
DL = 6.793
BEC = 27.01

Weight: <None>
Min Conc: 0

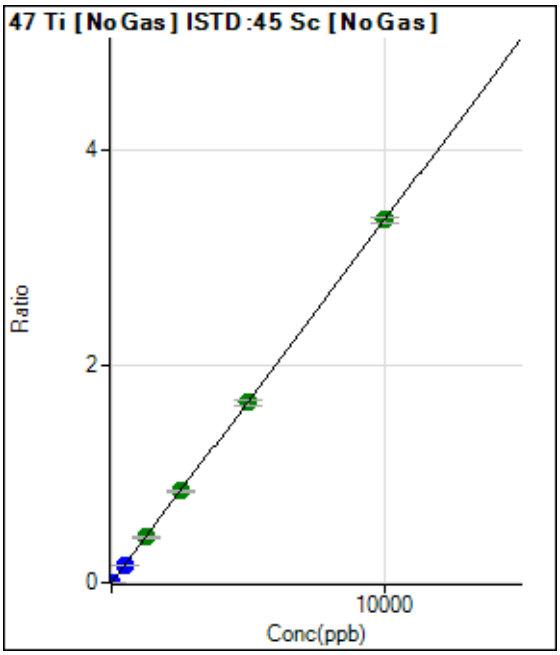


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35659.75	0.0057	P	2.3
2	☐	500.000	518.234	428324.38	0.0673	P	2.4
3	☐	5000.000	4984.035	3834201.64	0.5983	A	1.4
4	☐	12500.000	12321.343	9118751.67	1.4707	A	1.3
5	☐	25000.000	25600.540	18070755.70	3.0496	A	1.8
6	☐	50000.000	50259.931	35003045.87	5.9817	A	2.5
7	☐	100000.00	99374.884	67382906.22	11.8216	A	2.1
8	☐	500000.00	500073.61	325856892.9	59.4658	A	0.8

y = 1.1890E-004 * x + 0.0057
R = 1.0000
DL = 3.325
BEC = 47.56

Weight: <None>
Min Conc: 0

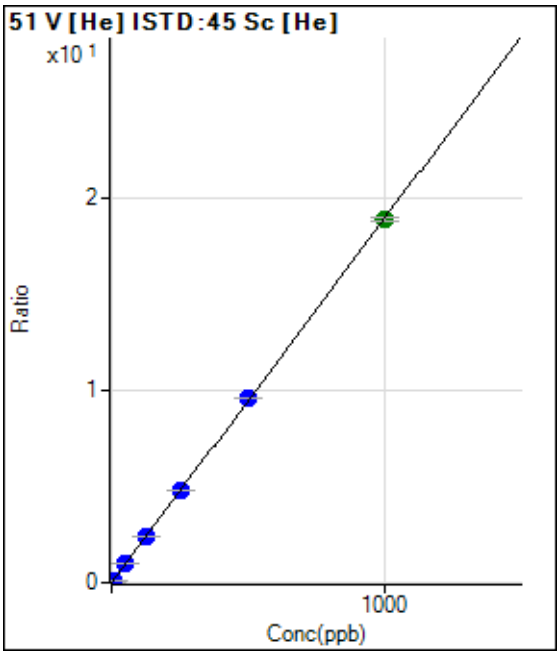
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LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.89	0.0000	P	8.7
2	☐	5.000	5.460	11840.53	0.0019	P	4.1
3	☐	500.000	501.268	1075321.21	0.1678	P	0.9
4	☐	1250.000	1251.744	2597239.27	0.4189	A	2.2
5	☐	2500.000	2535.066	5026963.54	0.8484	A	2.4
6	☐	5000.000	4975.029	9741837.84	1.6650	A	3.3
7	☐	10000.000	10003.437	19082177.49	3.3478	A	1.4
8	☐			2099.07	0.0004	P	4.3

y = 3.3466E-004 * x + 3.3084E-005
R = 1.0000
DL = 0.02586
BEC = 0.09886

Weight: <None>
Min Conc: 0

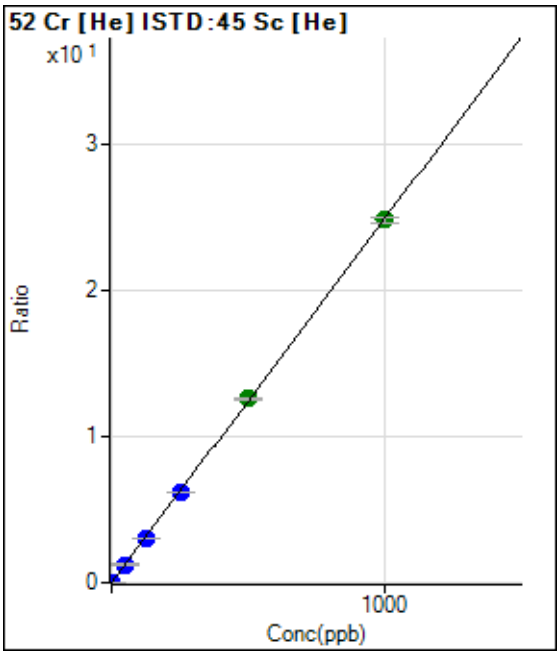


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0001	P	66.3
2	☐	5.000	5.251	12244.20	0.0996	P	2.5
3	☐	50.000	50.840	115203.63	0.9629	P	0.4
4	☐	125.000	124.999	274485.09	2.3674	P	0.5
5	☐	250.000	252.089	545540.09	4.7742	P	0.7
6	☐	500.000	506.493	1057778.47	9.5921	P	0.6
7	☐	1000.000	996.188	2073782.47	18.8660	A	1.0
8	☐			513.35	0.0050	P	1.7

y = 0.0189 * x + 1.1121E-004
R = 1.0000
DL = 0.01169
BEC = 0.005872

Weight: <None>
Min Conc: 0

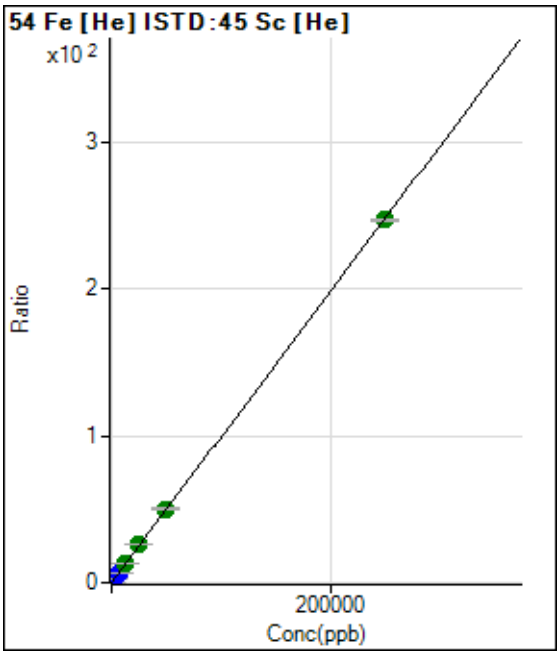
Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	864.48	0.0072	P	7.2
2	☐	2.000	2.041	7131.84	0.0580	P	1.0
3	☐	50.000	49.897	149416.64	1.2489	P	0.7
4	☐	125.000	123.529	357254.30	3.0812	P	0.4
5	☐	250.000	249.501	710301.69	6.2160	P	0.4
6	☐	500.000	504.990	1386574.98	12.5738	A	1.0
7	☐	1000.000	997.818	2729817.01	24.8378	A	1.9
8	☐			3981.70	0.0389	P	1.6

y = 0.0249 * x + 0.0072
R = 1.0000
DL = 0.06254
BEC = 0.2897

Weight: <None>
Min Conc: 0

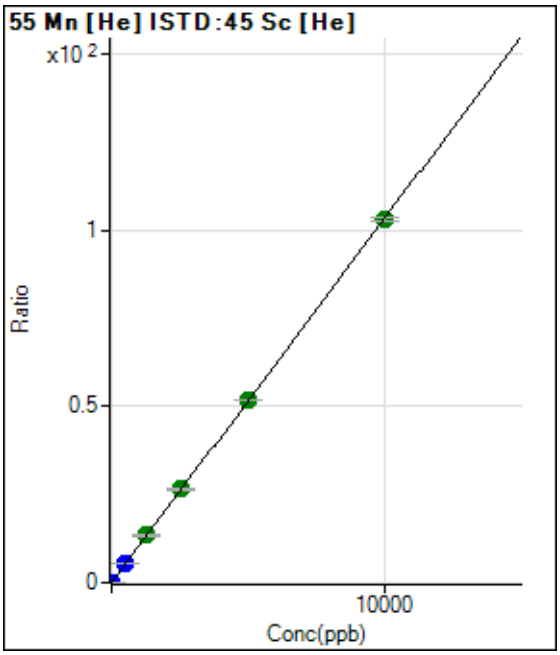


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	620.02	0.0052	P	1.1
2	☐	50.000	55.944	7454.22	0.0606	P	1.3
3	☐	2500.000	2613.096	310458.94	2.5950	P	1.7
4	☐	6250.000	6457.375	742637.43	6.4051	P	1.3
5	☐	12500.000	13236.107	1499626.35	13.1235	A	0.2
6	☐	25000.000	26425.404	2888594.64	26.1955	A	1.9
7	☐	50000.000	50895.037	5545107.42	50.4474	A	0.3
8	☐	250000.00	249635.33	25356043.79	247.4195	A	0.8

y = 9.9110E-004 * x + 0.0052
R = 1.0000
DL = 0.1683
BEC = 5.215

Weight: <None>
Min Conc: 0

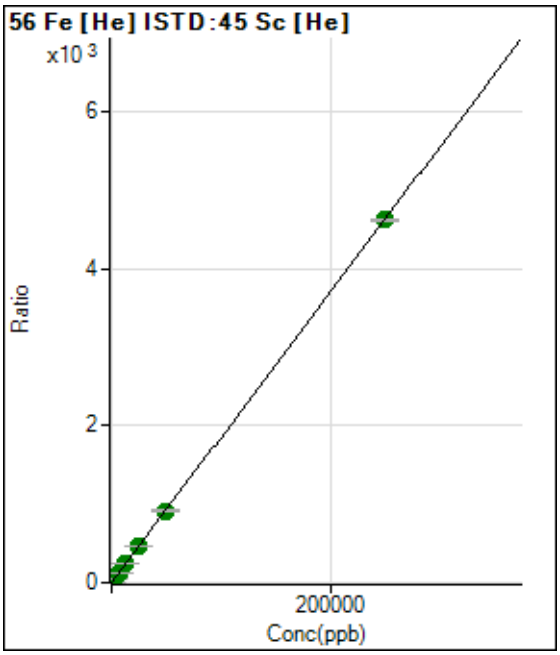
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1016.71	0.0085	P	6.8
2	☐	1.000	1.049	2376.89	0.0193	P	4.6
3	☐	500.000	511.357	633863.77	5.2981	P	0.4
4	☐	1250.000	1297.345	1556963.55	13.4285	A	1.8
5	☐	2500.000	2569.104	3037674.78	26.5839	A	1.0
6	☐	5000.000	5023.223	5731020.89	51.9698	A	0.7
7	☐	10000.000	9964.627	11330316.91	103.0848	A	1.0
8	☐			4849.77	0.0473	P	3.6

y = 0.0103 * x + 0.0085
R = 1.0000
DL = 0.1663
BEC = 0.8193

Weight: <None>
Min Conc: 0

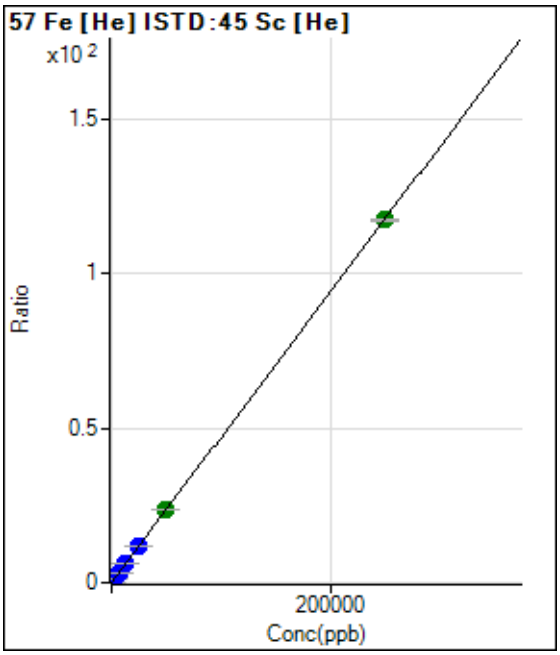


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8179.08	0.0682	P	2.2
2	☐	50.000	53.228	129381.21	1.0521	P	1.5
3	☐	2500.000	2589.098	5734169.85	47.9277	A	2.2
4	☐	6250.000	6436.571	13803001.04	119.0483	A	1.4
5	☐	12500.000	12847.602	27145539.04	237.5563	A	0.4
6	☐	25000.000	25599.127	52188692.55	473.2685	A	1.4
7	☐	50000.000	49419.449	100401075.1	913.5875	A	3.0
8	☐	250000.00	250033.26	473660410.7	4,621.937	A	0.7

y = 0.0185 * x + 0.0682
R = 1.0000
DL = 0.2394
BEC = 3.689

Weight: <None>
Min Conc: 0

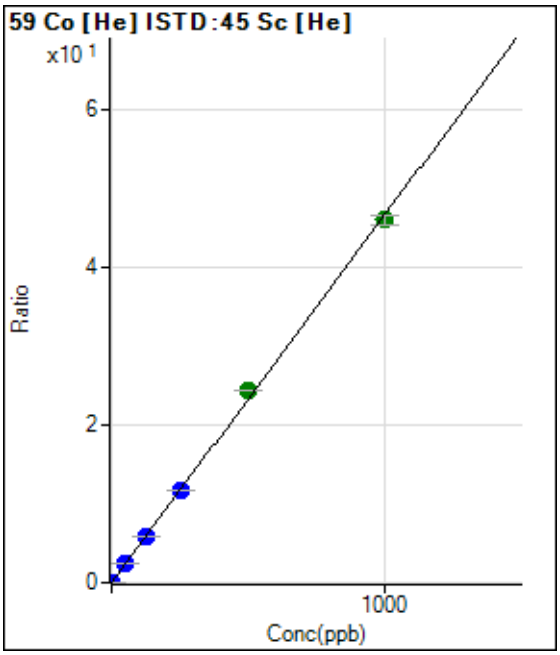
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	236.68	0.0020	P	6.8
2	☐	50.000	51.474	3211.51	0.0261	P	0.4
3	☐	2500.000	2558.039	143770.11	1.2017	P	0.8
4	☐	6250.000	6315.675	343665.85	2.9640	P	0.6
5	☐	12500.000	12628.496	677018.03	5.9247	P	0.6
6	☐	25000.000	25164.176	1301637.40	11.8038	P	1.3
7	☐	50000.000	50412.848	2599178.87	23.6453	A	0.8
8	☐	250000.00	249892.36	12010631.77	117.2001	A	0.5

y = 4.6899E-004 * x + 0.0020
R = 1.0000
DL = 0.8624
BEC = 4.208

Weight: <None>
Min Conc: 0

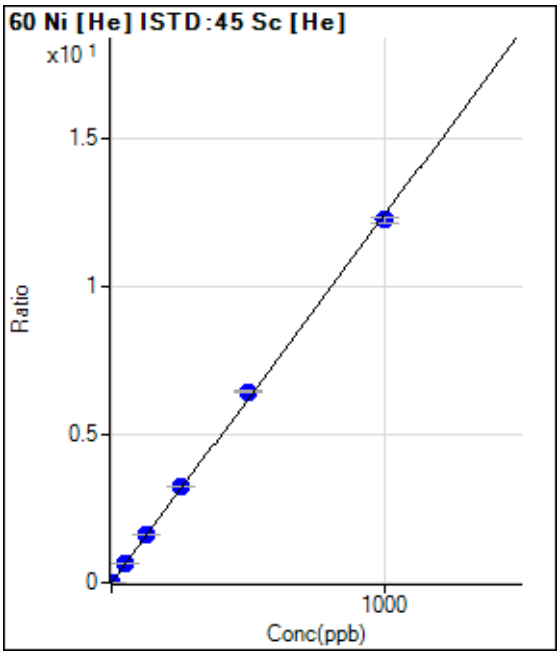


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0004	P	11.6
2	☐	1.000	1.091	6299.23	0.0512	P	0.8
3	☐	50.000	51.475	287085.03	2.3995	P	0.6
4	☐	125.000	126.593	684156.57	5.9007	P	0.5
5	☐	250.000	252.790	1346369.51	11.7825	P	0.8
6	☐	500.000	523.196	2689250.20	24.3858	A	0.4
7	☐	1000.000	987.431	5058093.57	46.0232	A	2.3
8	☐			5710.09	0.0557	P	1.2

y = 0.0466 * x + 3.5188E-004
R = 0.9996
DL = 0.002618
BEC = 0.00755

Weight: <None>
Min Conc: 0

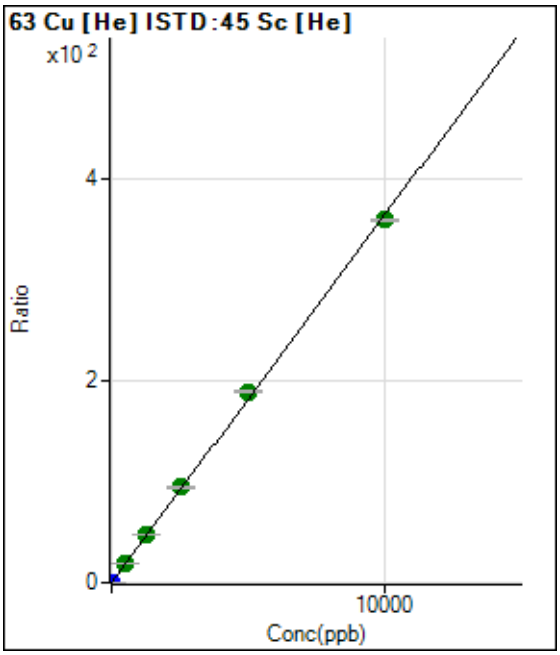
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	242.23	0.0020	P	5.9
2	☐	1.000	0.984	1753.45	0.0143	P	3.5
3	☐	50.000	53.676	80108.02	0.6696	P	0.8
4	☐	125.000	131.464	189798.92	1.6370	P	0.2
5	☐	250.000	262.671	373515.42	3.2687	P	0.2
6	☐	500.000	518.648	711507.80	6.4521	P	1.2
7	☐	1000.000	986.517	1348687.26	12.2708	P	1.4
8	☐			3353.75	0.0327	P	2.4

y = 0.0124 * x + 0.0020
R = 0.9996
DL = 0.02896
BEC = 0.1623

Weight: <None>
Min Conc: 0

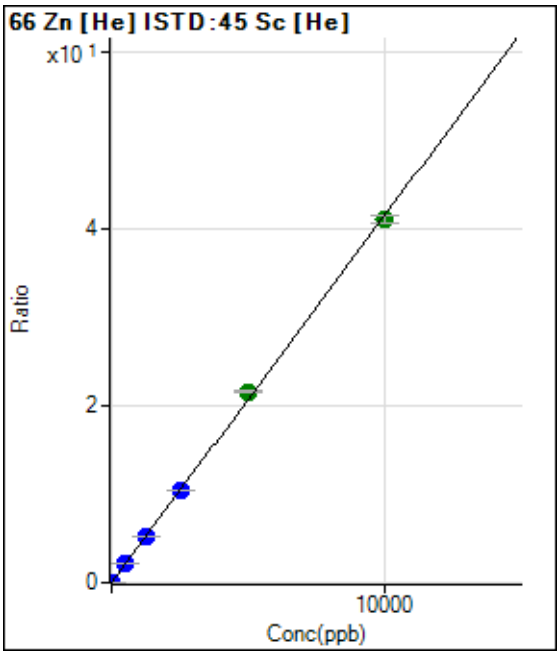


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2285.77	0.0191	P	1.1
2	☐	2.000	2.074	11633.73	0.0946	P	1.4
3	☐	500.000	537.009	2342833.45	19.5821	A	1.1
4	☐	1250.000	1305.595	5516830.89	47.5813	A	0.7
5	☐	2500.000	2595.895	10808161.64	94.5863	A	0.9
6	☐	5000.000	5184.669	20831375.94	188.8941	A	0.9
7	☐	10000.000	9874.892	39543063.30	359.7567	A	0.7
8	☐			6638.28	0.0648	P	0.9

y = 0.0364 * x + 0.0191
R = 0.9997
DL = 0.01655
BEC = 0.5231

Weight: <None>
Min Conc: 0

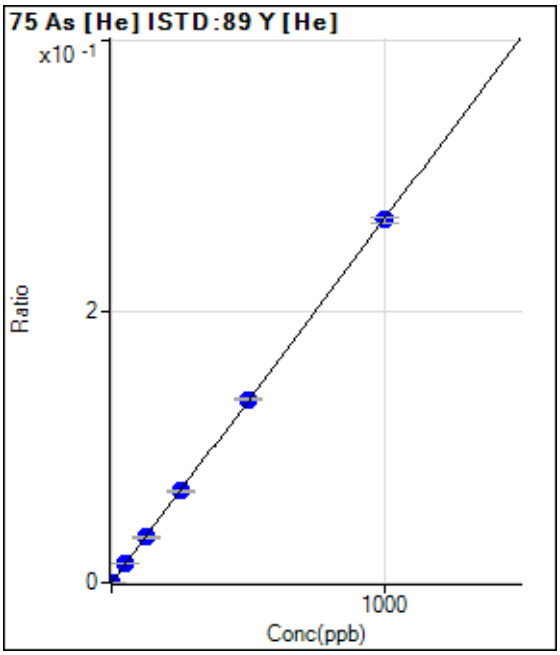
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	568.91	0.0047	P	4.4
2	☐	2.000	5.157	3209.29	0.0261	P	2.8
3	☐	500.000	514.161	255291.82	2.1338	P	0.4
4	☐	1250.000	1266.178	608466.33	5.2478	P	0.4
5	☐	2500.000	2529.224	1197312.17	10.4779	P	0.1
6	☐	5000.000	5207.394	2378403.28	21.5679	A	0.9
7	☐	10000.000	9886.266	4499761.53	40.9425	A	2.1
8	☐			18989.49	0.1853	P	1.2

y = 0.0041 * x + 0.0047
R = 0.9997
DL = 0.1528
BEC = 1.145

Weight: <None>
Min Conc: 0

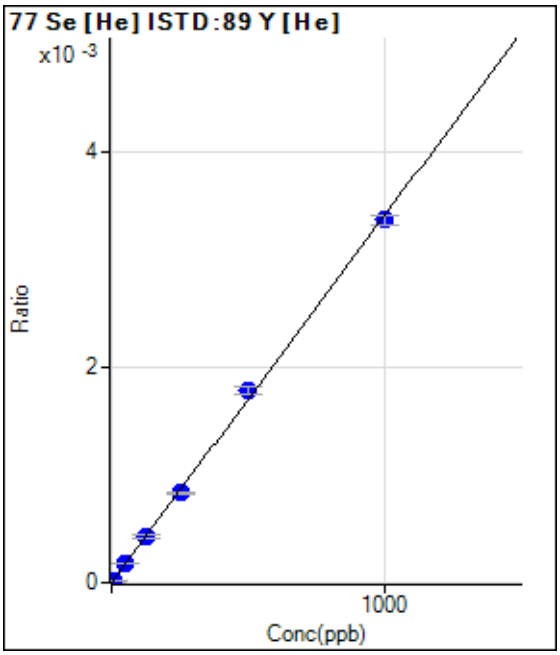


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	25.2
2	☐	1.000	0.961	344.45	0.0003	P	9.5
3	☐	50.000	50.646	17457.60	0.0136	P	1.7
4	☐	125.000	125.196	41616.83	0.0336	P	1.9
5	☐	250.000	251.301	82416.99	0.0675	P	1.6
6	☐	500.000	504.276	159488.68	0.1354	P	1.1
7	☐	1000.000	997.480	308937.66	0.2678	P	1.3
8	☐			125.56	0.0001	P	8.7

y = 2.6844E-004 * x + 6.0688E-006
R = 1.0000
DL = 0.01708
BEC = 0.02261

Weight: <None>
Min Conc: 0

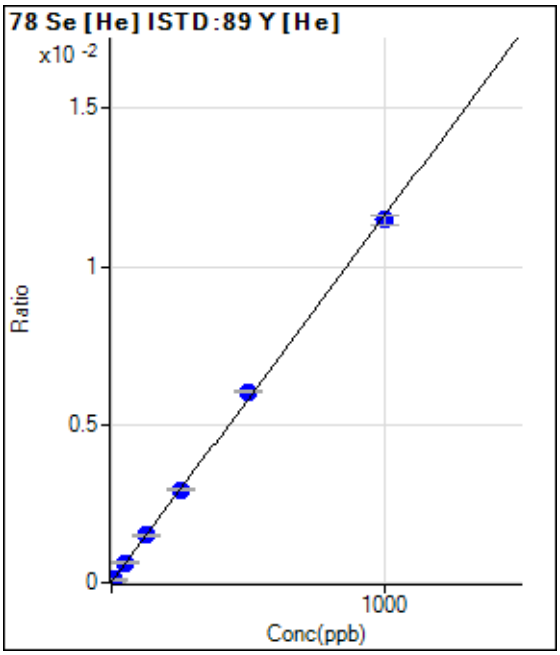
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	3.745	17.78	0.0000	P	38.7
3	☐	50.000	51.096	224.45	0.0002	P	3.9
4	☐	125.000	125.446	530.02	0.0004	P	4.3
5	☐	250.000	244.879	1020.05	0.0008	P	2.5
6	☐	500.000	525.190	2107.96	0.0018	P	4.3
7	☐	1000.000	988.581	3885.02	0.0034	P	2.7
8	☐			0.00	0.0000	P	

y = 3.4058E-006 * x + 8.5971E-007
R = 0.9995
DL = 1.312
BEC = 0.2524

Weight: <None>
Min Conc: 0

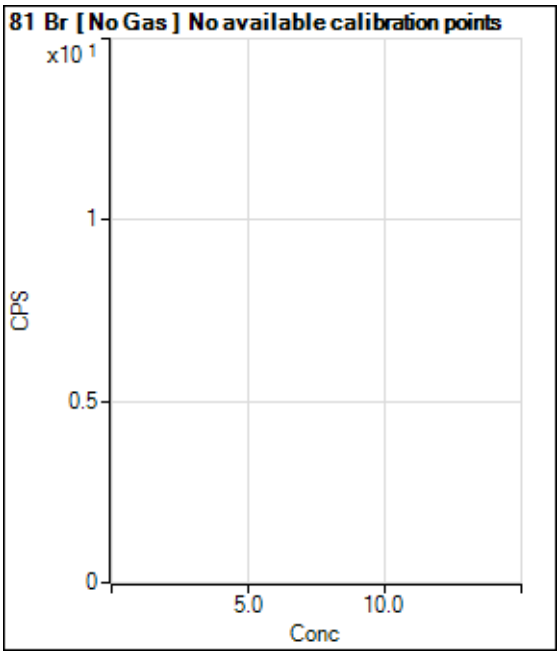


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	14.2
2	☐	5.000	6.509	122.22	0.0001	P	27.2
3	☐	50.000	52.985	811.14	0.0006	P	9.3
4	☐	125.000	127.626	1853.47	0.0015	P	2.6
5	☐	250.000	252.909	3601.61	0.0029	P	3.4
6	☐	500.000	519.709	7115.19	0.0060	P	0.5
7	☐	1000.000	988.933	13237.41	0.0115	P	3.0
8	☐			35.56	0.0000	P	46.6

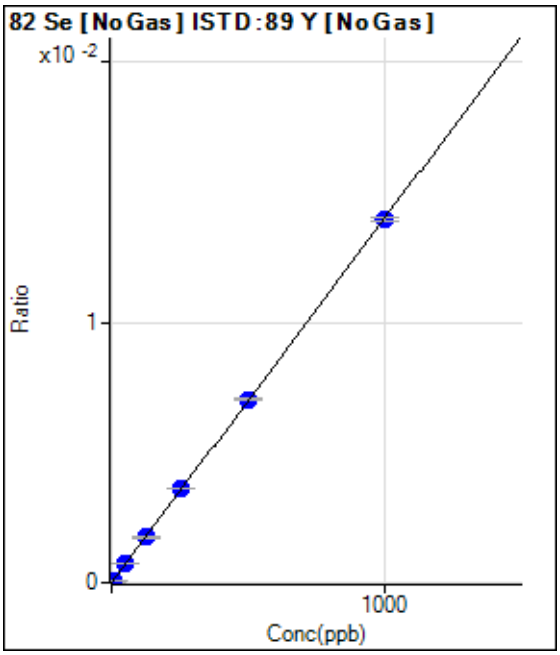
y = 1.1585E-005 * x + 1.8186E-005
R = 0.9997
DL = 0.6679
BEC = 1.57

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22010.68		P	1.6
2	☐			22538.15		P	1.0
3	☐			22643.87		P	1.2
4	☐			21306.29		P	1.5
5	☐			20990.30		P	0.6
6	☐			20436.08		P	1.7
7	☐			20495.06		P	2.7
8	☐			20233.58		P	2.0

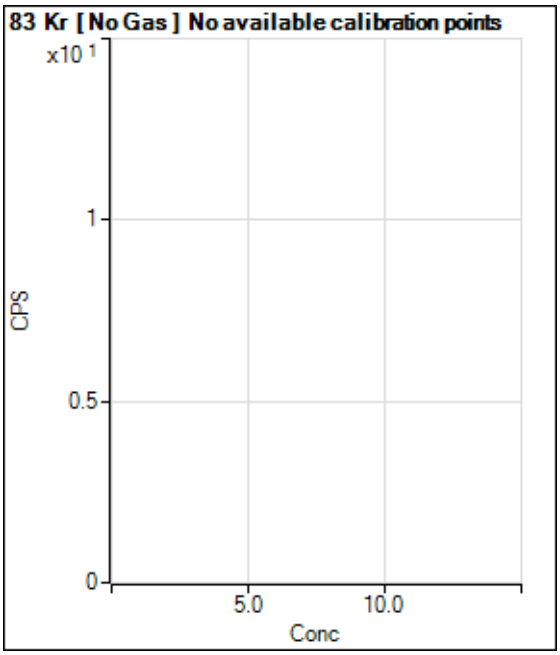


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	68.8
2	☐	5.000	5.293	1302.32	0.0001	P	5.6
3	☐	50.000	52.099	12570.36	0.0007	P	2.7
4	☐	125.000	124.468	29943.62	0.0017	P	1.7
5	☐	250.000	257.328	60205.12	0.0036	P	0.9
6	☐	500.000	503.654	114760.10	0.0070	P	0.7
7	☐	1000.000	996.301	221319.24	0.0139	P	1.2
8	☐			225.56	0.0000	P	34.2

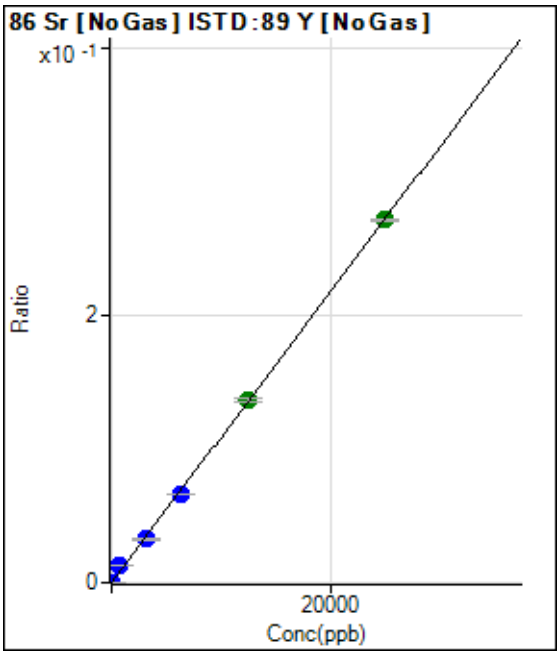
y = 1.3985E-005 * x + 1.9175E-006
R = 1.0000
DL = 0.283
BEC = 0.1371

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			181.11		P	9.4
2	☐			218.89		P	8.9
3	☐			223.34		P	9.1
4	☐			208.89		P	14.5
5	☐			214.45		P	7.0
6	☐			233.34		P	16.5
7	☐			245.56		P	8.2
8	☐			245.56		P	13.4

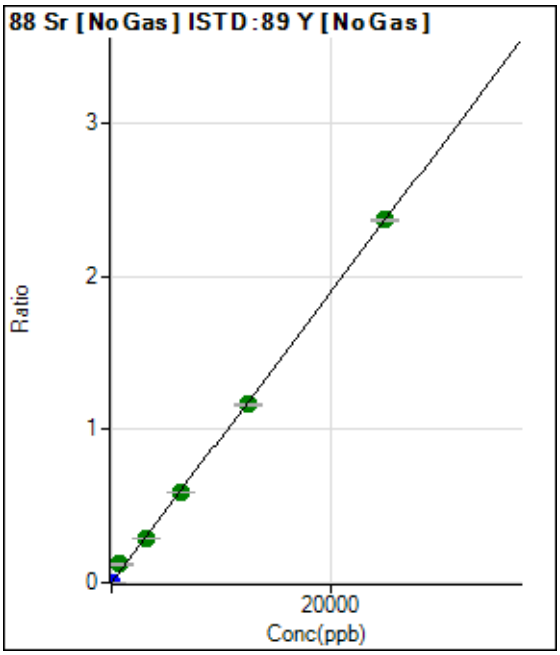


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0000	P	15.6
2	☐	1.000	25.856	5213.26	0.0003	P	1.2
3	☐	625.000	1232.122	230773.37	0.0134	P	1.4
4	☐	3125.000	2980.653	556841.93	0.0324	P	2.3
5	☐	6250.000	6118.676	1112013.37	0.0665	P	0.9
6	☐	12500.000	12590.450	2228483.20	0.1368	A	1.5
7	☐	25000.000	24990.470	4313032.92	0.2716	A	0.8
8	☐			14207.32	0.0009	P	2.5

y = 1.0865E-005 * x + 2.2871E-005
R = 0.9996
DL = 0.9858
BEC = 2.105

Weight: <None>
Min Conc: 0

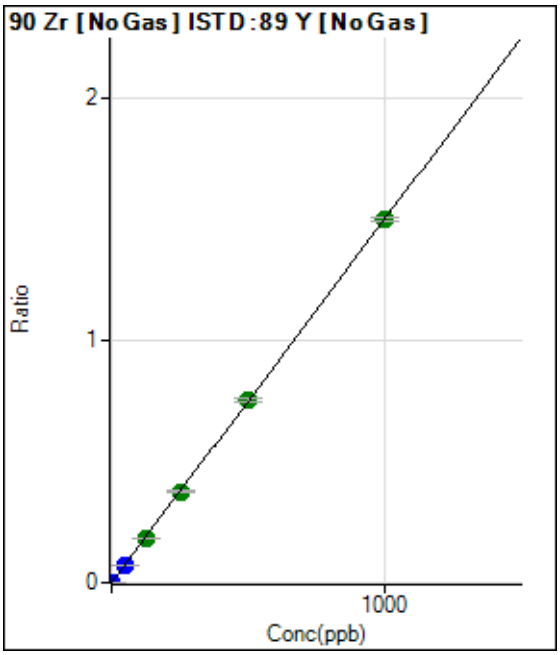
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Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	480.01	0.0000	P	10.6
2	☐	1.000	25.863	42384.13	0.0025	P	1.3
3	☐	625.000	1268.748	2061877.28	0.1198	A	1.8
4	☐	3125.000	3051.846	4951288.71	0.2882	A	2.2
5	☐	6250.000	6269.183	9898060.61	0.5919	A	1.2
6	☐	12500.000	12345.231	18987850.41	1.1656	A	1.0
7	☐	25000.000	25065.638	37592273.33	2.3666	A	0.5
8	☐			123606.79	0.0081	P	1.7

y = 9.4414E-005 * x + 2.8626E-005
R = 0.9996
DL = 0.09615
BEC = 0.3032

Weight: <None>
Min Conc: 0

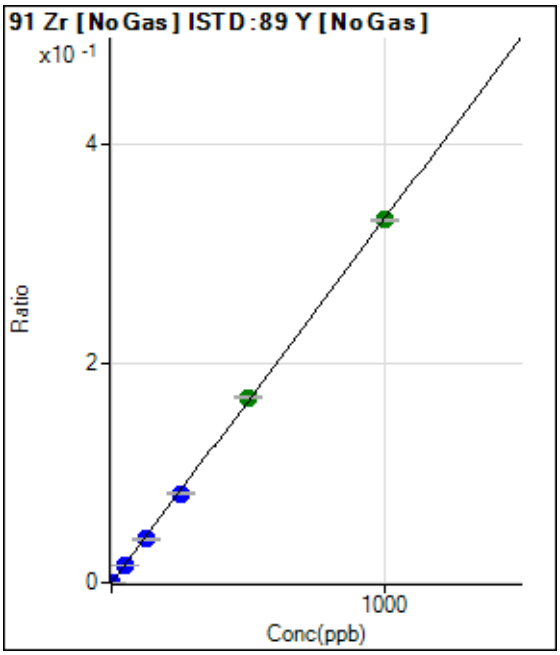


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	857.81	0.0001	P	6.5
2	☐	1.000	1.068	28335.47	0.0017	P	2.6
3	☐	50.000	48.836	1260790.24	0.0733	P	1.3
4	☐	125.000	122.822	3164806.62	0.1842	A	1.4
5	☐	250.000	251.119	6295129.77	0.3765	A	2.4
6	☐	500.000	502.409	12267521.76	0.7532	A	1.6
7	☐	1000.000	998.846	23785941.04	1.4974	A	1.1
8	☐			19498.18	0.0013	P	3.4

y = 0.0015 * x + 5.1151E-005
R = 1.0000
DL = 0.00666
BEC = 0.03412

Weight: <None>
Min Conc: 0

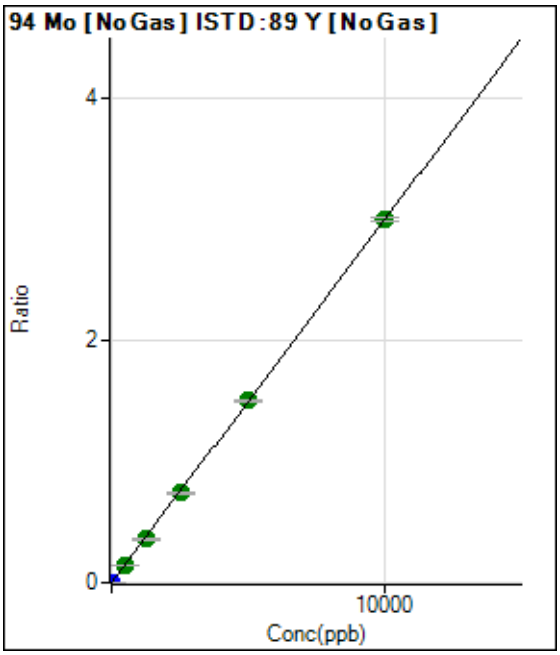
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0000	P	8.4
2	☐	1.000	1.079	6283.69	0.0004	P	3.8
3	☐	50.000	49.446	282183.26	0.0164	P	0.4
4	☐	125.000	119.997	683467.75	0.0398	P	2.9
5	☐	250.000	244.999	1357965.95	0.0812	P	1.1
6	☐	500.000	508.675	2746143.47	0.1686	A	1.1
7	☐	1000.000	997.565	5251909.37	0.3306	A	0.6
8	☐			4335.16	0.0003	P	4.7

y = 3.3144E-004 * x + 8.7471E-006
R = 0.9999
DL = 0.006625
BEC = 0.02639

Weight: <None>
Min Conc: 0

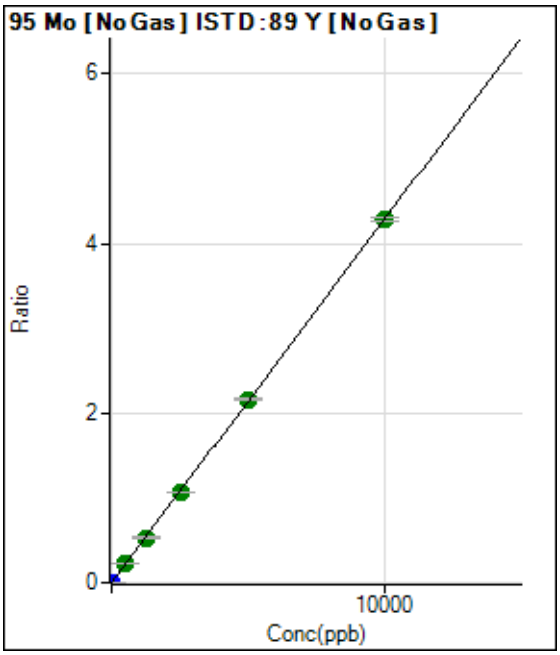


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0000	P	5.5
2	☐	5.000	6.192	32123.77	0.0019	P	0.6
3	☐	500.000	499.485	2569622.65	0.1493	A	0.8
4	☐	1250.000	1198.279	6153816.51	0.3582	A	2.9
5	☐	2500.000	2476.397	12376901.76	0.7402	A	1.0
6	☐	5000.000	5018.053	24428439.64	1.4999	A	1.4
7	☐	10000.000	10003.365	47491548.74	2.9899	A	1.1
8	☐			12373.37	0.0008	P	5.6

y = 2.9889E-004 * x + 2.1470E-005
R = 1.0000
DL = 0.01189
BEC = 0.07183

Weight: <None>
Min Conc: 0

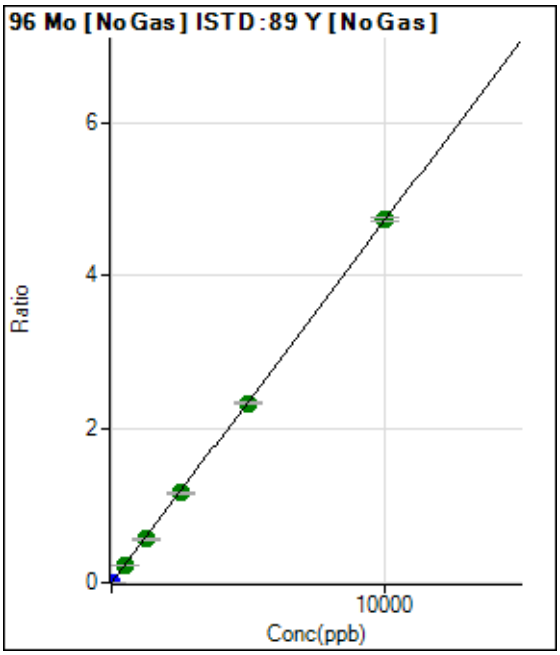
Reviewed By:Janvi
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.11	0.0000	P	22.3
2	☐	5.000	5.130	37832.46	0.0022	P	2.5
3	☐	500.000	509.352	3755384.18	0.2182	A	0.9
4	☐	1250.000	1228.206	9040486.05	0.5262	A	2.5
5	☐	2500.000	2480.715	17771219.32	1.0627	A	1.0
6	☐	5000.000	5047.692	35218387.53	2.1624	A	1.5
7	☐	10000.000	9983.232	67925223.43	4.2767	A	1.2
8	☐			8800.67	0.0006	P	11.0

y = 4.2839E-004 * x + 7.8103E-006
R = 1.0000
DL = 0.01221
BEC = 0.01823

Weight: <None>
Min Conc: 0

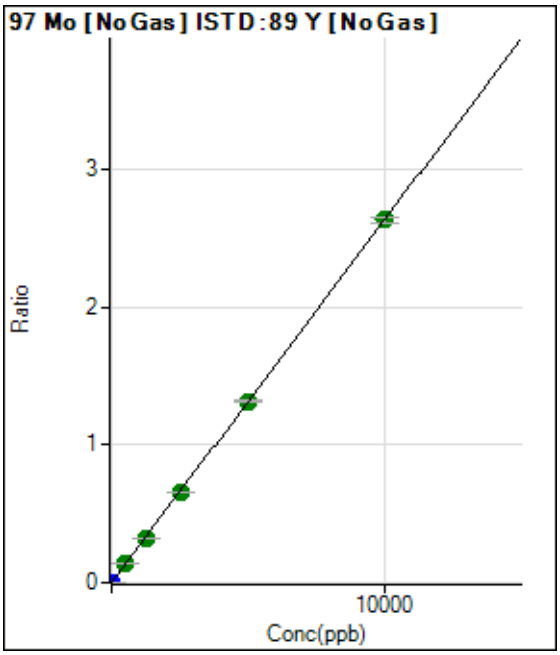


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.78	0.0000	P	14.7
2	☐	5.000	5.146	41786.02	0.0024	P	2.9
3	☐	500.000	502.585	4076313.45	0.2369	A	0.3
4	☐	1250.000	1206.485	9769901.66	0.5686	A	2.4
5	☐	2500.000	2479.338	19535975.96	1.1685	A	2.3
6	☐	5000.000	4958.358	38061986.93	2.3368	A	0.8
7	☐	10000.000	10031.297	75085482.77	4.7275	A	1.1
8	☐			15652.28	0.0010	P	6.5

y = 4.7128E-004 * x + 1.1201E-005
R = 1.0000
DL = 0.01046
BEC = 0.02377

Weight: <None>
Min Conc: 0

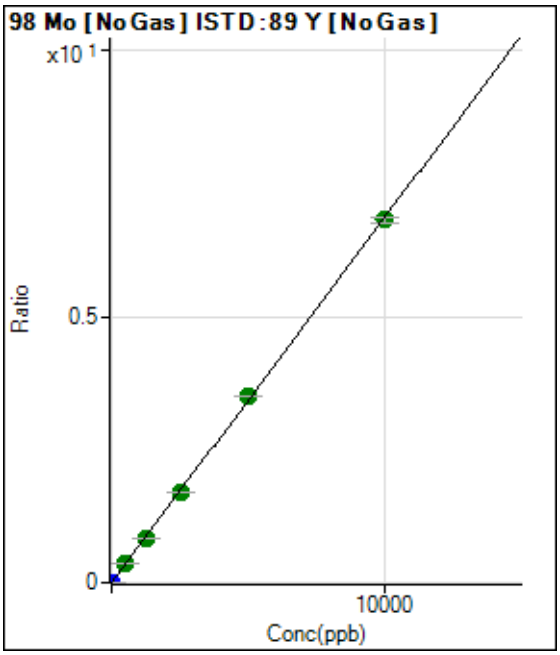
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.56	0.0000	P	7.4
2	☐	5.000	5.167	23443.22	0.0014	P	3.1
3	☐	500.000	510.071	2314592.78	0.1345	A	1.0
4	☐	1250.000	1216.011	5509033.67	0.3206	A	2.8
5	☐	2500.000	2509.367	11064553.31	0.6617	A	0.5
6	☐	5000.000	5000.737	21479027.04	1.3186	A	0.8
7	☐	10000.000	10001.035	41891788.82	2.6371	A	1.8
8	☐			5252.16	0.0003	P	8.3

y = 2.6368E-004 * x + 4.5063E-006
R = 1.0000
DL = 0.003774
BEC = 0.01709

Weight: <None>
Min Conc: 0

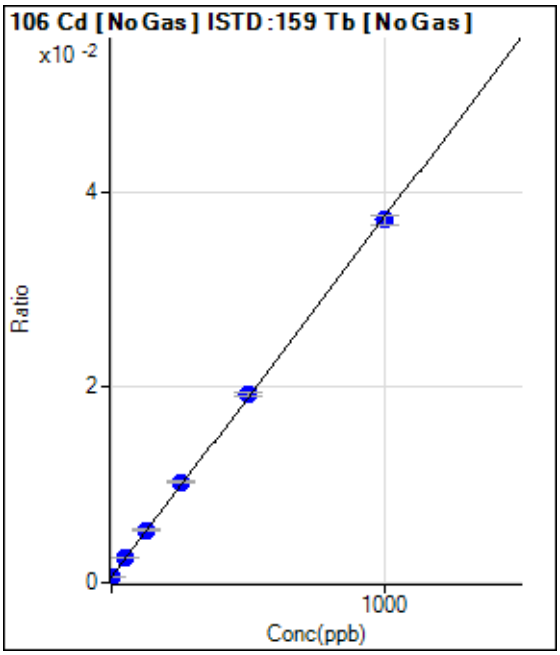


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	10.5
2	☐	5.000	5.172	61032.32	0.0036	P	2.3
3	☐	500.000	506.099	5972694.98	0.3471	A	0.2
4	☐	1250.000	1220.737	14383094.23	0.8371	A	2.4
5	☐	2500.000	2488.307	28532764.85	1.7063	A	1.0
6	☐	5000.000	5126.821	57264928.59	3.5156	A	0.4
7	☐	10000.000	9942.866	108294810.6	6.8181	A	1.5
8	☐			13352.12	0.0009	P	10.2

y = 6.8573E-004 * x + 1.1728E-005
R = 0.9999
DL = 0.005399
BEC = 0.0171

Weight: <None>
Min Conc: 0

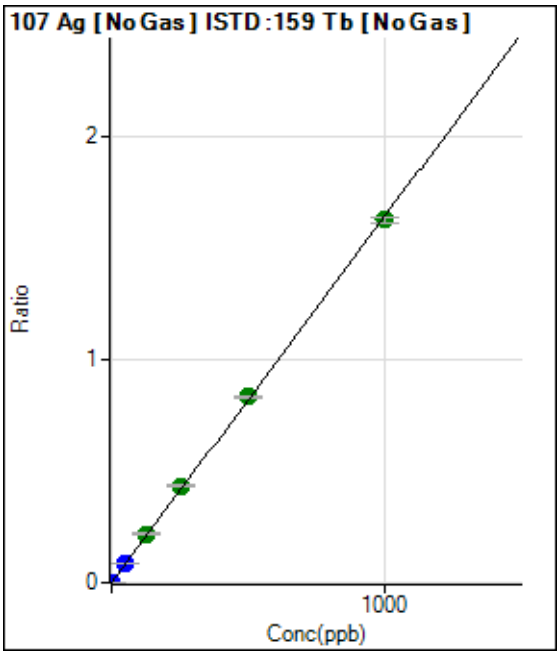
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6118.07	0.0006	P	1.0
2	☐	1.000	1.330	6646.11	0.0006	P	0.8
3	☐	50.000	53.519	27794.69	0.0025	P	1.1
4	☐	125.000	130.170	58223.32	0.0054	P	2.2
5	☐	250.000	262.909	109351.15	0.0102	P	1.8
6	☐	500.000	507.021	205649.44	0.0192	P	2.0
7	☐	1000.000	992.440	387243.22	0.0371	P	2.4
8	☐			5432.23	0.0005	P	2.2

y = 3.6794E-005 * x + 5.7033E-004
R = 0.9999
DL = 0.4498
BEC = 15.5

Weight: <None>
Min Conc: 0

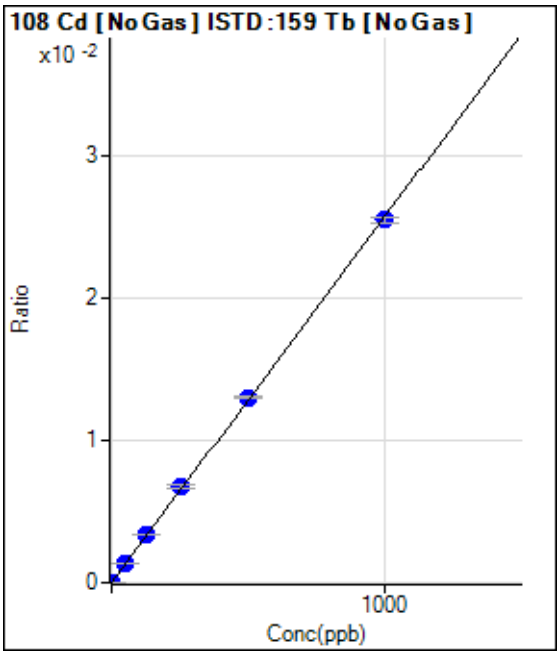


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0000	P	13.1
2	☐	1.000	1.152	20407.39	0.0019	P	2.4
3	☐	50.000	51.723	928354.75	0.0848	P	1.5
4	☐	125.000	133.736	2382546.96	0.2193	A	1.3
5	☐	250.000	264.183	4624037.67	0.4332	A	2.0
6	☐	500.000	507.883	8908452.51	0.8328	A	1.6
7	☐	1000.000	991.335	16973681.97	1.6254	A	1.7
8	☐			1770.13	0.0002	P	6.0

y = 0.0016 * x + 1.2751E-005
R = 0.9998
DL = 0.00306
BEC = 0.007777

Weight: <None>
Min Conc: 0

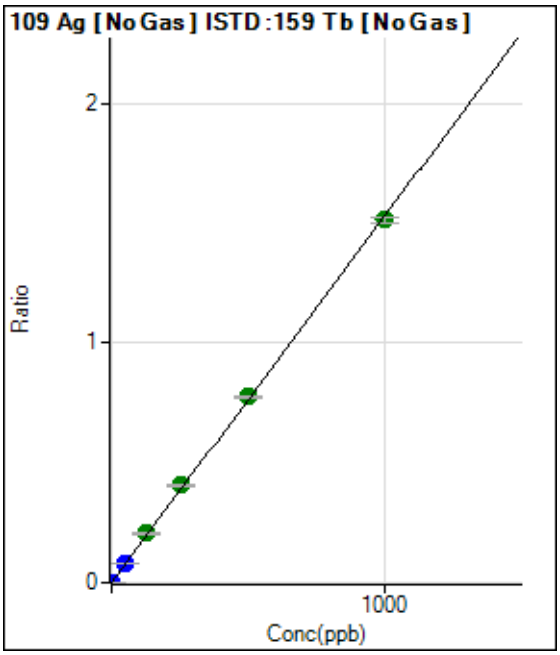
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	62.7
2	☐	1.000	1.005	288.90	0.0000	P	9.3
3	☐	50.000	53.360	14997.14	0.0014	P	2.2
4	☐	125.000	131.256	36598.44	0.0034	P	2.2
5	☐	250.000	263.147	72087.20	0.0068	P	2.5
6	☐	500.000	506.439	139018.52	0.0130	P	1.5
7	☐	1000.000	992.544	265959.92	0.0255	P	1.9
8	☐			146.67	0.0000	P	24.7

y = 2.5660E-005 * x + 1.1357E-006
R = 0.9999
DL = 0.08327
BEC = 0.04426

Weight: <None>
Min Conc: 0

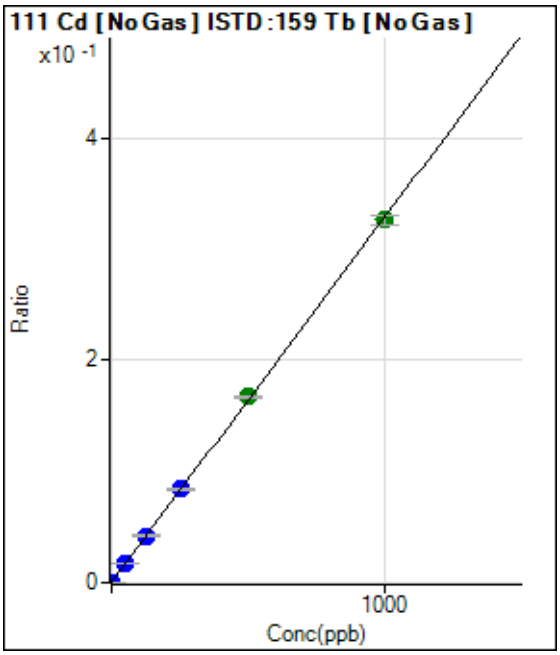


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	43.0
2	☐	1.000	1.133	18646.08	0.0017	P	2.9
3	☐	50.000	52.365	876843.07	0.0801	P	2.2
4	☐	125.000	134.939	2242623.98	0.2064	A	1.8
5	☐	250.000	265.739	4339744.69	0.4066	A	2.7
6	☐	500.000	508.497	8321873.21	0.7779	A	0.8
7	☐	1000.000	990.456	15823630.87	1.5153	A	1.9
8	☐			1566.78	0.0002	P	13.0

y = 0.0015 * x + 4.0437E-006
R = 0.9998
DL = 0.003406
BEC = 0.002643

Weight: <None>
Min Conc: 0

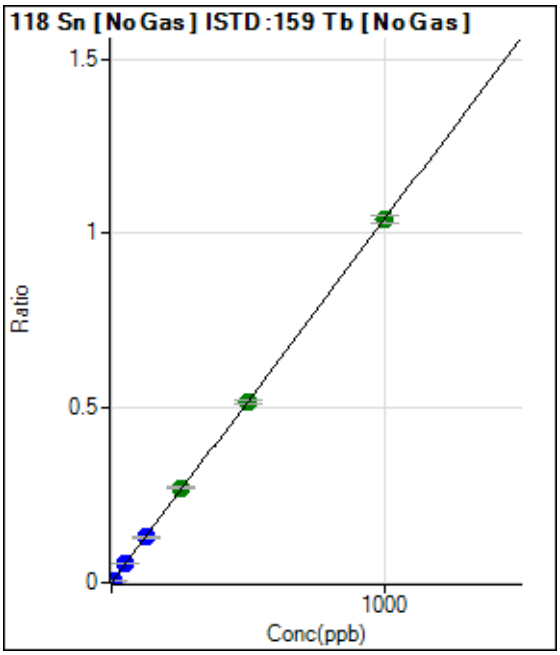
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Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4284.09	0.0004	P	0.9
2	☐	1.000	1.037	7937.19	0.0007	P	0.2
3	☐	50.000	51.664	189955.54	0.0174	P	1.7
4	☐	125.000	127.324	458280.82	0.0422	P	2.0
5	☐	250.000	254.956	897489.34	0.0841	P	2.0
6	☐	500.000	509.425	1792838.88	0.1676	A	1.1
7	☐	1000.000	993.675	3409425.90	0.3265	A	2.6
8	☐			4304.36	0.0004	P	2.1

y = 3.2820E-004 * x + 3.9937E-004
R = 0.9999
DL = 0.03232
BEC = 1.217

Weight: <None>
Min Conc: 0

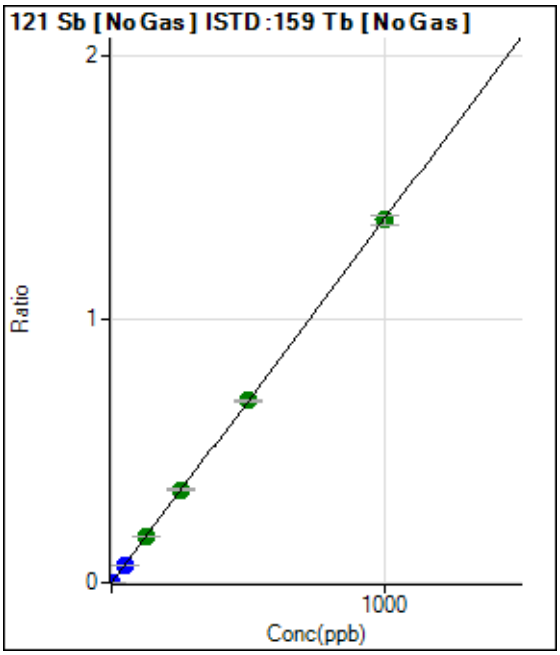


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2841.43	0.0003	P	4.1
2	☐	5.000	5.272	61706.01	0.0057	P	1.2
3	☐	50.000	50.562	578679.71	0.0529	P	1.0
4	☐	125.000	124.825	1413408.33	0.1301	P	3.2
5	☐	250.000	260.872	2900293.50	0.2717	A	1.7
6	☐	500.000	498.105	5546306.24	0.5185	A	2.2
7	☐	1000.000	998.222	10847506.92	1.0388	A	2.1
8	☐			3643.03	0.0004	P	11.5

y = 0.0010 * x + 2.6489E-004
R = 0.9999
DL = 0.03134
BEC = 0.2546

Weight: <None>
Min Conc: 0

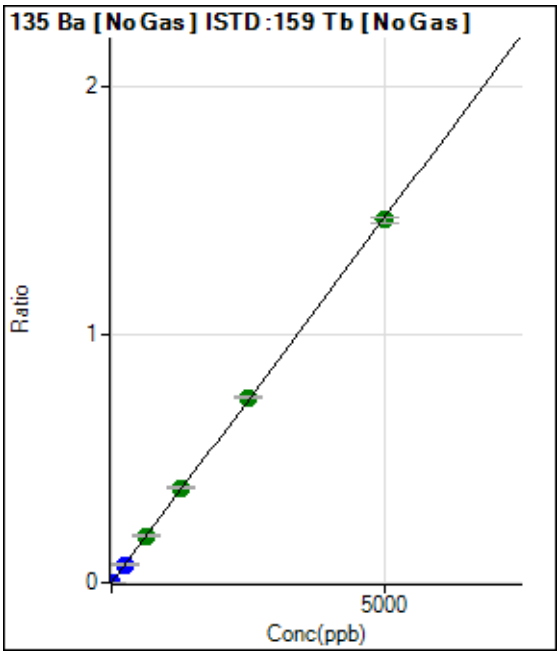
Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	27.6
2	☐	2.000	2.091	31021.85	0.0029	P	1.8
3	☐	50.000	49.314	744988.86	0.0681	P	0.8
4	☐	125.000	127.462	1911161.44	0.1759	A	1.6
5	☐	250.000	255.553	3765013.45	0.3527	A	2.4
6	☐	500.000	501.396	7402673.22	0.6920	A	1.0
7	☐	1000.000	997.640	14377035.34	1.3769	A	2.8
8	☐			7844.53	0.0008	P	3.1

y = 0.0014 * x + 4.0380E-006
R = 1.0000
DL = 0.002421
BEC = 0.002926

Weight: <None>
Min Conc: 0

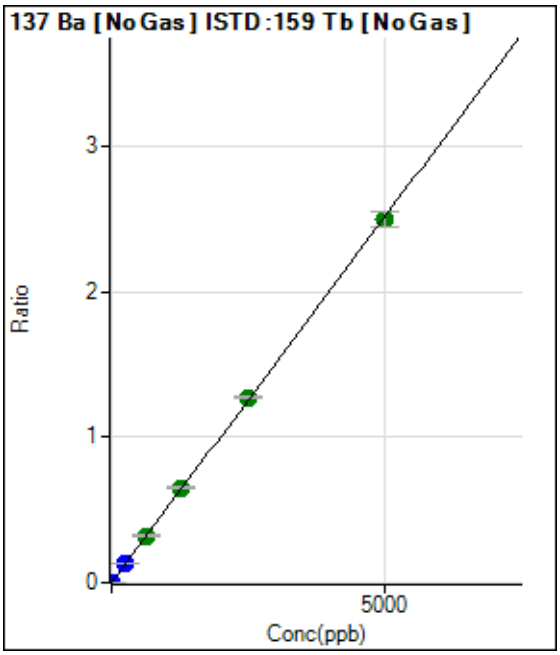


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0000	P	31.8
2	☐	10.000	10.378	32955.58	0.0031	P	0.2
3	☐	250.000	249.267	804223.14	0.0735	P	1.2
4	☐	625.000	636.393	2037398.08	0.1876	A	3.0
5	☐	1250.000	1293.537	4069677.82	0.3813	A	2.4
6	☐	2500.000	2535.243	7993227.59	0.7472	A	0.6
7	☐	5000.000	4970.106	15296754.08	1.4648	A	1.5
8	☐			7005.22	0.0007	P	1.3

y = 2.9473E-004 * x + 1.2005E-005
R = 0.9999
DL = 0.03885
BEC = 0.04073

Weight: <None>
Min Conc: 0

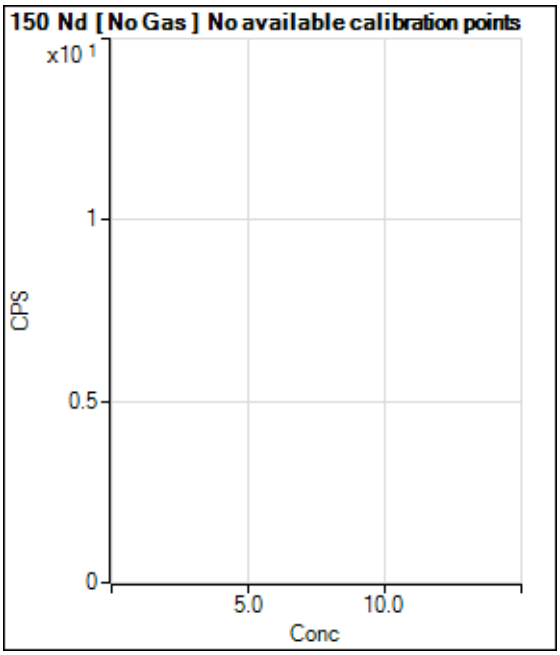
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0000	P	12.9
2	☐	10.000	10.521	56890.12	0.0053	P	0.6
3	☐	250.000	253.192	1391891.00	0.1272	P	1.7
4	☐	625.000	644.131	3512803.31	0.3235	A	5.3
5	☐	1250.000	1301.556	6977256.56	0.6537	A	2.9
6	☐	2500.000	2538.893	13639640.49	1.2751	A	0.9
7	☐	5000.000	4965.113	26033922.67	2.4935	A	4.1
8	☐			12137.76	0.0012	P	3.2

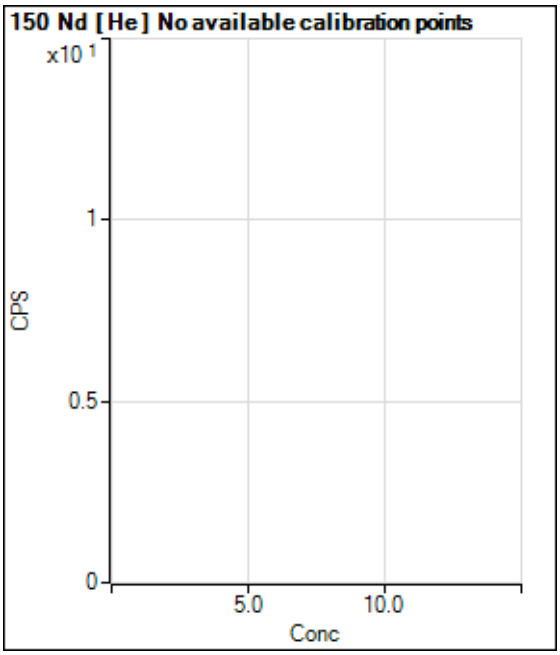
y = 5.0221E-004 * x + 1.7094E-005
R = 0.9999
DL = 0.01313
BEC = 0.03404

Weight: <None>
Min Conc: 0

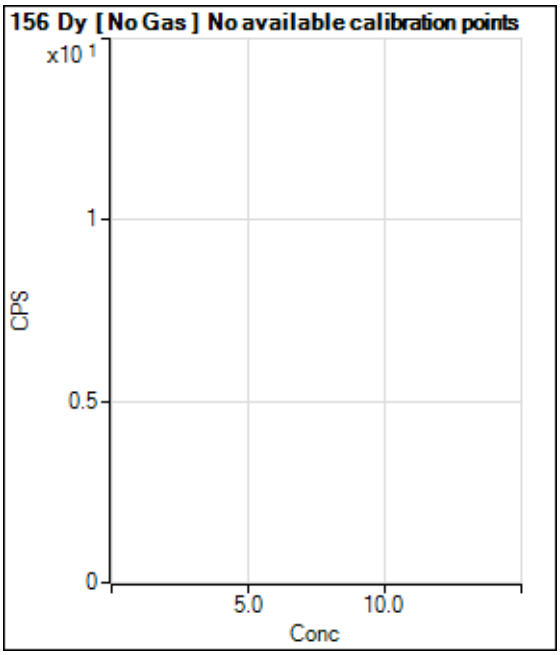


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.44		P	114.
2	☐			12.22		P	15.7
3	☐			73.33		P	43.4
4	☐			175.56		P	10.5
5	☐			301.12		P	14.7
6	☐			613.35		P	4.6
7	☐			1168.95		P	2.1
8	☐			262.23		P	15.8

Reviewed By:Janvi
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LB :LB135893

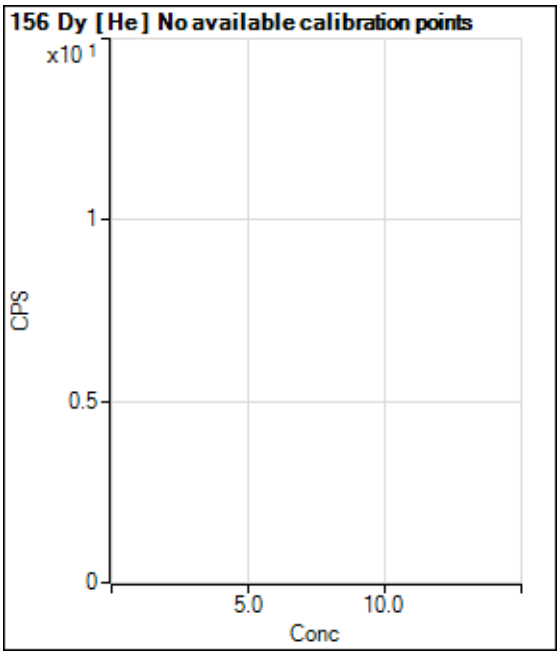


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			4.44		P	43.4
3	☐			8.89		P	57.3
4	☐			12.22		P	15.7
5	☐			27.78		P	6.9
6	☐			44.44		P	17.3
7	☐			70.00		P	20.8
8	☐			87.78		P	7.9

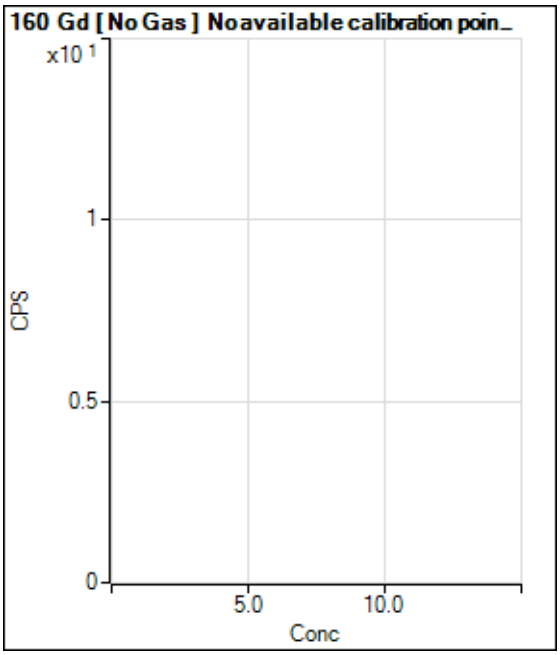


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1	☐			13.33		P	75.0
2	☐			10.00		P	57.8
3	☐			34.45		P	11.2
4	☐			58.89		P	3.3
5	☐			90.00		P	14.8
6	☐			206.67		P	19.6
7	☐			434.46		P	10.4
8	☐			726.69		P	6.4

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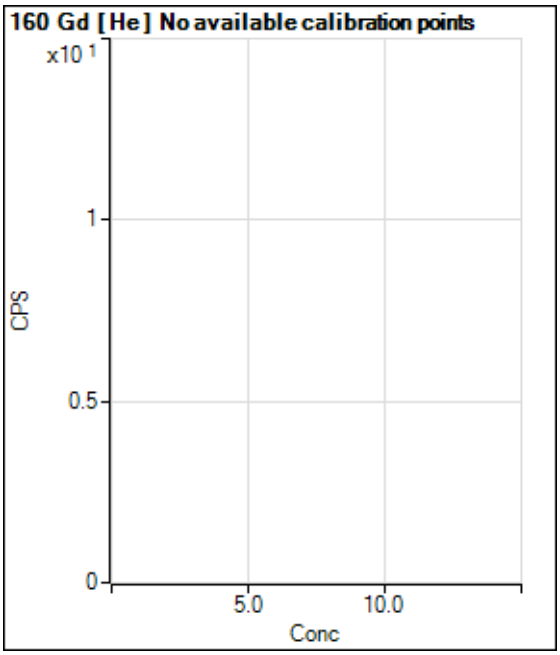


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1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			11.11		P	34.6
4	☐			11.11		P	45.8
5	☐			18.89		P	27.0
6	☐			34.44		P	5.6
7	☐			64.44		P	38.1
8	☐			198.89		P	23.5

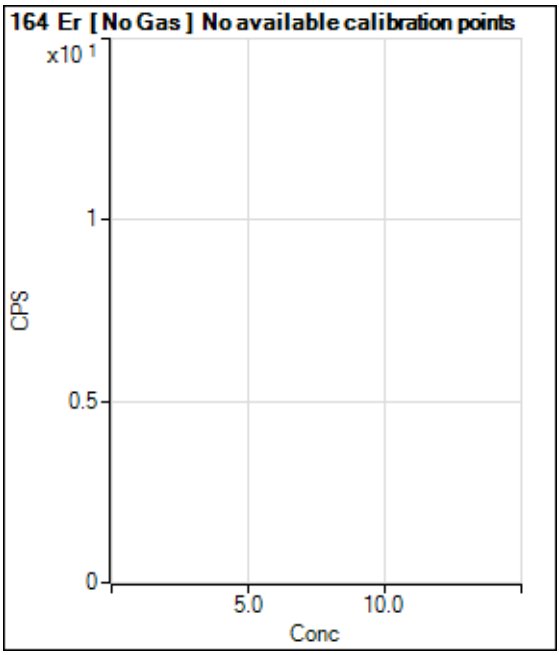


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1	☐			110.00		P	13.9
2	☐			122.22		P	16.0
3	☐			130.01		P	8.9
4	☐			134.45		P	29.6
5	☐			148.89		P	9.3
6	☐			191.12		P	8.8
7	☐			258.89		P	1.5
8	☐			730.03		P	5.1

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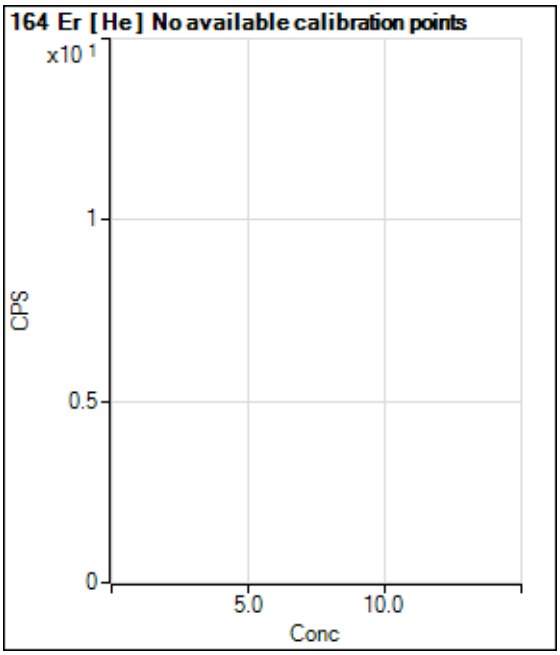


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1	☐			23.33		P	49.5
2	☐			21.11		P	39.7
3	☐			26.67		P	33.1
4	☐			30.00		P	11.1
5	☐			48.89		P	37.5
6	☐			46.67		P	12.4
7	☐			105.56		P	14.9
8	☐			312.23		P	8.3

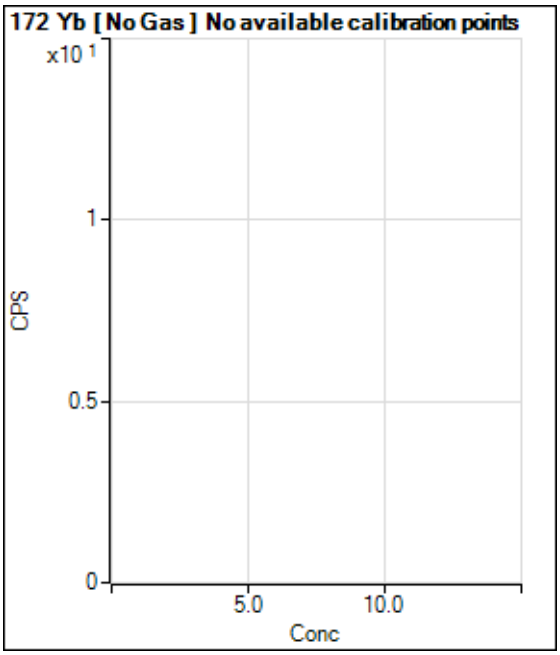


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1	☐			72.22		P	9.6
2	☐			56.67		P	5.9
3	☐			115.56		P	12.0
4	☐			110.00		P	5.3
5	☐			128.89		P	11.7
6	☐			213.34		P	8.3
7	☐			307.78		P	4.9
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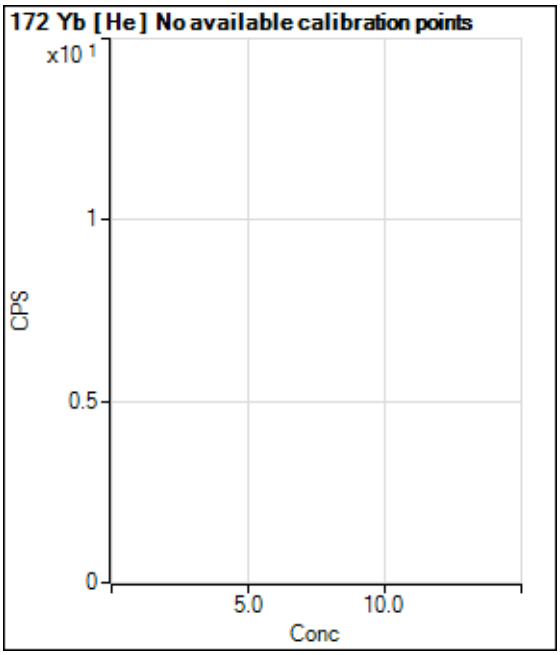


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1	☐			35.56		P	5.4
2	☐			40.00		P	16.7
3	☐			38.89		P	13.1
4	☐			36.67		P	55.3
5	☐			46.67		P	28.6
6	☐			66.67		P	25.0
7	☐			106.67		P	14.3
8	☐			511.13		P	2.6

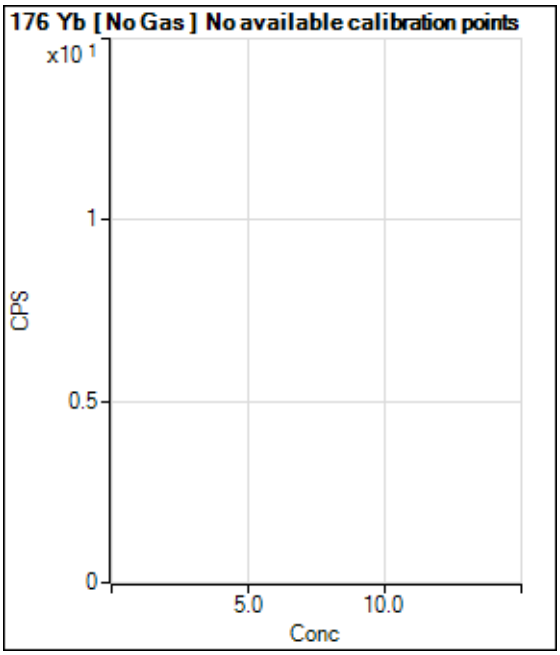


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1	☐			78.89		P	24.8
2	☐			54.44		P	27.6
3	☐			76.66		P	15.1
4	☐			104.45		P	16.1
5	☐			152.23		P	9.1
6	☐			218.89		P	6.3
7	☐			314.45		P	7.8
8	☐			985.60		P	5.2

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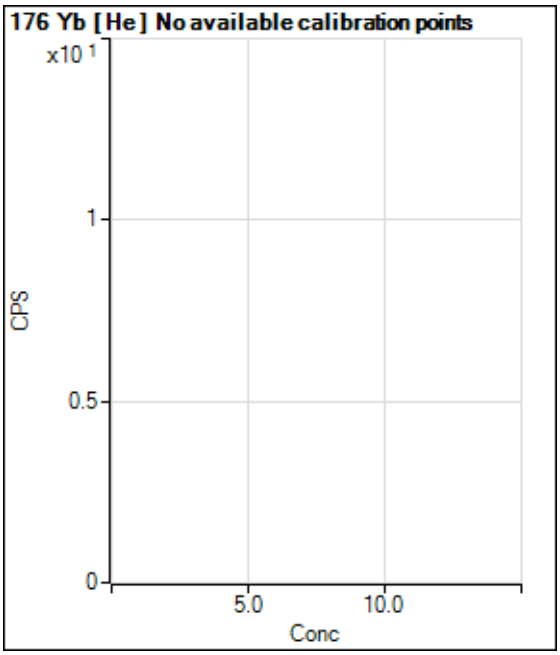


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1	☐			24.45		P	15.8
2	☐			26.67		P	54.5
3	☐			43.33		P	38.5
4	☐			33.34		P	45.8
5	☐			68.89		P	14.0
6	☐			93.33		P	7.1
7	☐			150.00		P	5.9
8	☐			486.68		P	5.4

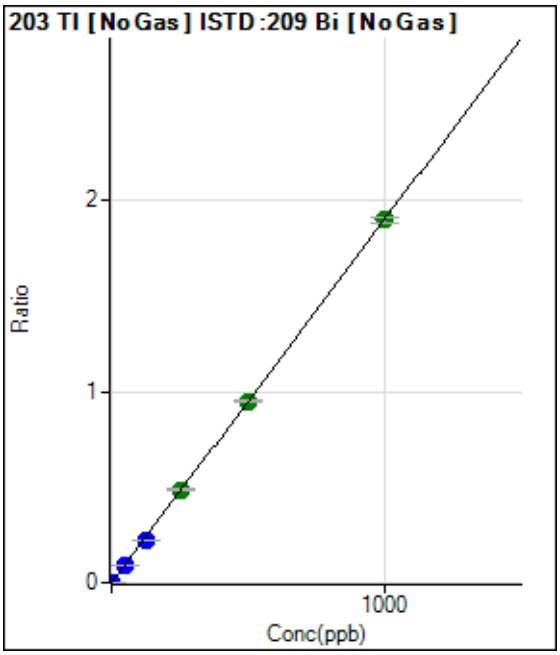


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1	☐			1609.01		P	5.5
2	☐			1676.79		P	4.3
3	☐			4292.96		P	1.6
4	☐			8602.87		P	1.4
5	☐			15257.80		P	3.4
6	☐			28711.27		P	2.9
7	☐			54932.63		P	1.1
8	☐			2042.40		P	6.7

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			484.46		P	5.1
2	☐			460.01		P	0.7
3	☐			1526.77		P	11.6
4	☐			3079.28		P	4.2
5	☐			5723.51		P	3.4
6	☐			10681.07		P	0.5
7	☐			20823.17		P	0.8
8	☐			576.69		P	5.1

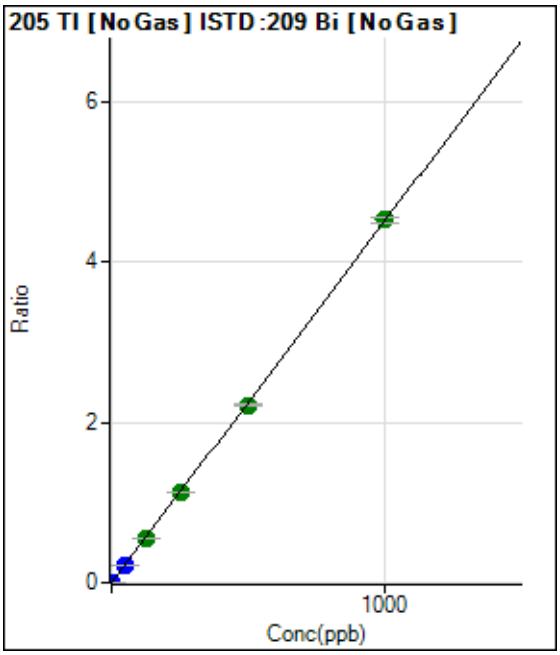


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.89	0.0000	P	9.4
2	☐	1.000	1.001	11542.98	0.0019	P	2.4
3	☐	50.000	47.036	553612.26	0.0894	P	1.7
4	☐	125.000	117.204	1384342.60	0.2228	P	1.9
5	☐	250.000	256.238	2960667.63	0.4870	A	2.9
6	☐	500.000	500.343	5701345.68	0.9510	A	1.0
7	☐	1000.000	999.392	10992416.09	1.8995	A	1.3
8	☐			956.71	0.0002	P	15.0

y = 0.0019 * x + 2.4319E-005
R = 0.9999
DL = 0.003613
BEC = 0.0128

Weight: <None>
Min Conc: 0

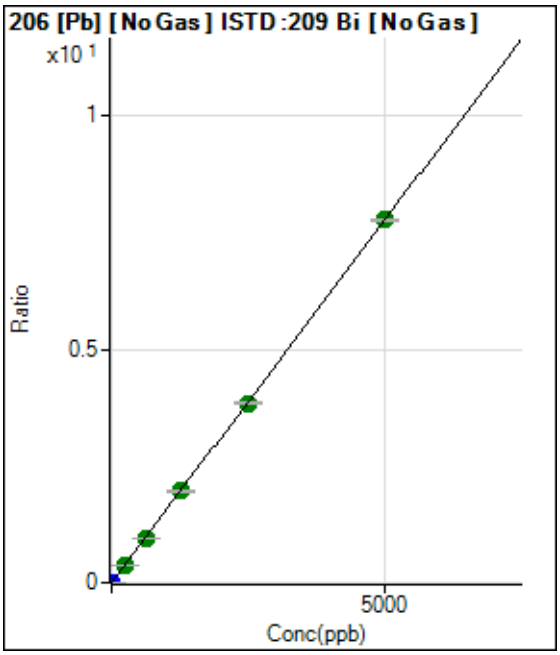
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	348.90	0.0001	P	8.2
2	☐	1.000	1.012	27679.52	0.0046	P	2.3
3	☐	50.000	47.390	1323034.00	0.2137	P	1.0
4	☐	125.000	121.124	3393995.54	0.5461	A	1.3
5	☐	250.000	251.462	6894455.59	1.1337	A	0.6
6	☐	500.000	490.589	13259519.11	2.2118	A	1.2
7	☐	1000.000	1004.955	26223961.83	4.5307	A	1.5
8	☐			2281.34	0.0004	P	7.8

y = 0.0045 * x + 5.6983E-005
R = 0.9999
DL = 0.003115
BEC = 0.01264

Weight: <None>
Min Conc: 0

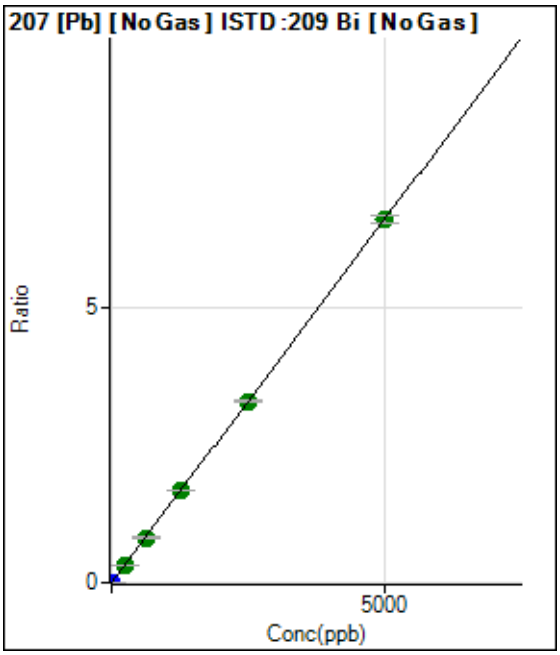


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	480.02	0.0001	P	6.0
2	☐	1.000	0.824	8134.85	0.0014	P	3.5
3	☐	250.000	249.436	2399180.14	0.3875	A	1.5
4	☐	625.000	614.931	5935071.51	0.9551	A	1.4
5	☐	1250.000	1268.090	11974172.60	1.9696	A	1.9
6	☐	2500.000	2477.027	23063825.77	3.8472	A	0.6
7	☐	5000.000	5008.251	45015945.44	7.7785	A	0.8
8	☐			32047.34	0.0060	P	0.4

y = 0.0016 * x + 7.8396E-005
R = 1.0000
DL = 0.009039
BEC = 0.05048

Weight: <None>
Min Conc: 0

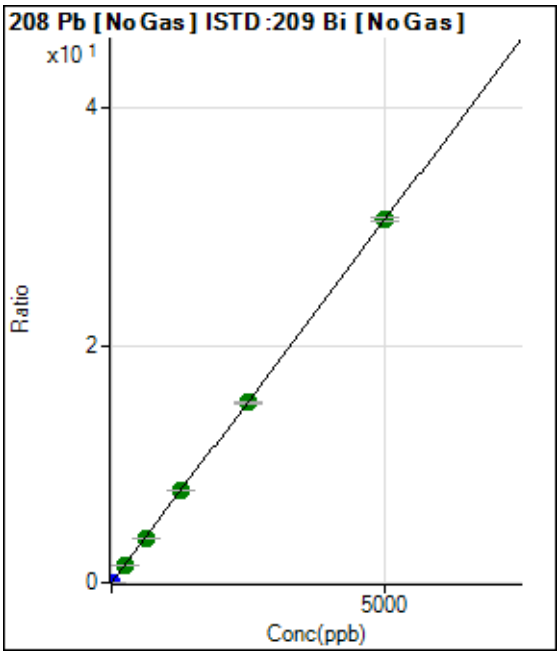
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0001	P	11.5
2	☐	1.000	0.892	7397.72	0.0012	P	1.5
3	☐	250.000	245.948	2007957.80	0.3243	A	0.5
4	☐	625.000	613.595	5026352.01	0.8090	A	3.0
5	☐	1250.000	1272.054	10196983.46	1.6771	A	1.0
6	☐	2500.000	2500.330	19763078.32	3.2964	A	1.8
7	☐	5000.000	4995.949	38121974.43	6.5866	A	2.3
8	☐			27491.44	0.0052	P	1.0

y = 0.0013 * x + 5.8794E-005
R = 1.0000
DL = 0.01539
BEC = 0.0446

Weight: <None>
Min Conc: 0

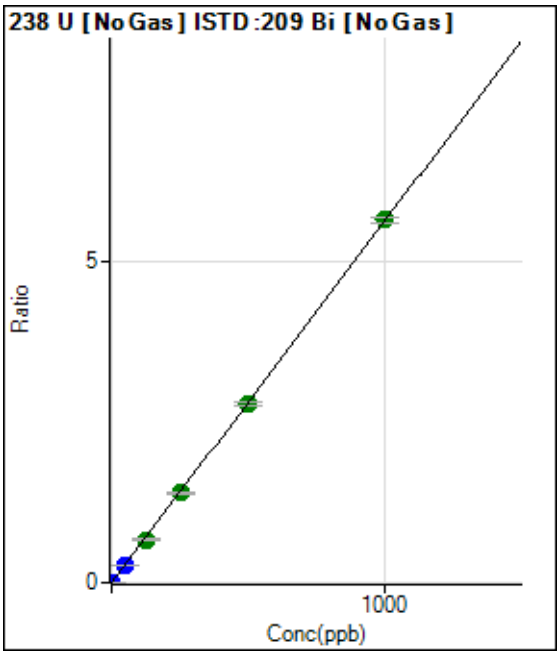


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1732.29	0.0003	P	6.6
2	☐	1.000	0.863	33255.90	0.0056	P	1.0
3	☐	250.000	247.005	9339440.50	1.5084	A	0.7
4	☐	625.000	610.668	23170031.11	3.7289	A	1.2
5	☐	1250.000	1264.976	46970925.14	7.7240	A	0.7
6	☐	2500.000	2485.659	90987595.03	15.1772	A	1.4
7	☐	5000.000	5005.368	176894325.1	30.5621	A	1.2
8	☐			126422.51	0.0238	P	0.2

y = 0.0061 * x + 2.8291E-004
R = 1.0000
DL = 0.00923
BEC = 0.04634

Weight: <None>
Min Conc: 0

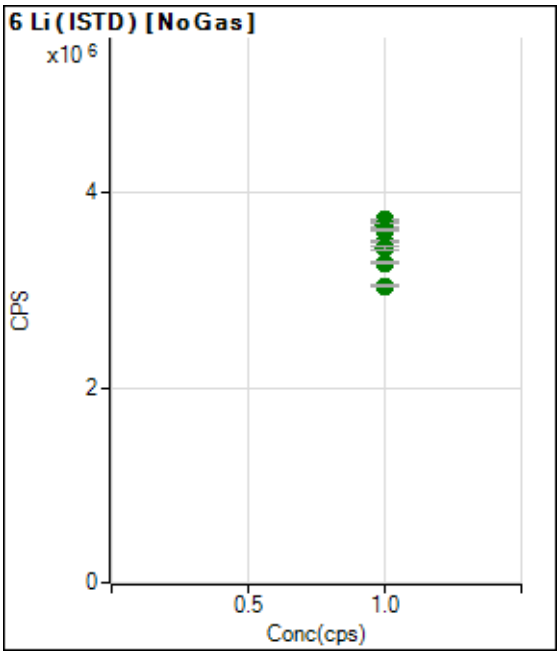
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0000	P	19.9
2	☐	1.000	0.968	32825.74	0.0055	P	0.3
3	☐	50.000	45.648	1594456.73	0.2575	P	1.0
4	☐	125.000	119.440	4187301.74	0.6738	A	0.8
5	☐	250.000	248.183	8515146.47	1.4002	A	1.2
6	☐	500.000	494.294	16717117.94	2.7886	A	2.1
7	☐	1000.000	1004.220	32792862.57	5.6654	A	1.6
8	☐			1655.68	0.0003	P	13.6

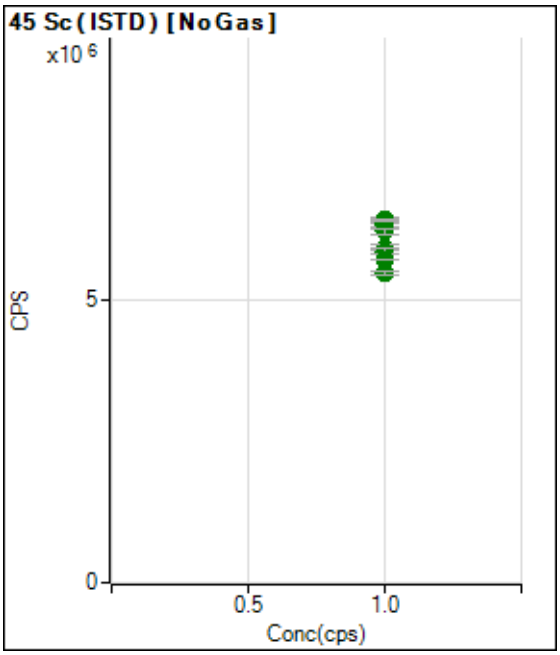
y = 0.0056 * x + 1.7967E-005
R = 1.0000
DL = 0.001902
BEC = 0.003185

Weight: <None>
Min Conc: 0

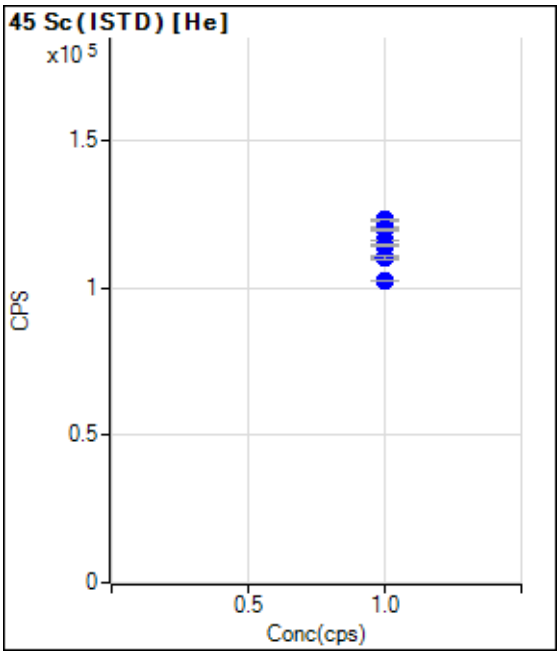


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3691342.42		A	0.9
2	☐	1.000		3717732.08		A	0.3
3	☐	1.000		3665773.45		A	0.9
4	☐	1.000		3609311.05		A	0.6
5	☐	1.000		3495857.66		A	0.9
6	☐	1.000		3425567.56		A	1.3
7	☐	1.000		3275983.09		A	0.6
8	☐	1.000		3039981.81		A	0.8

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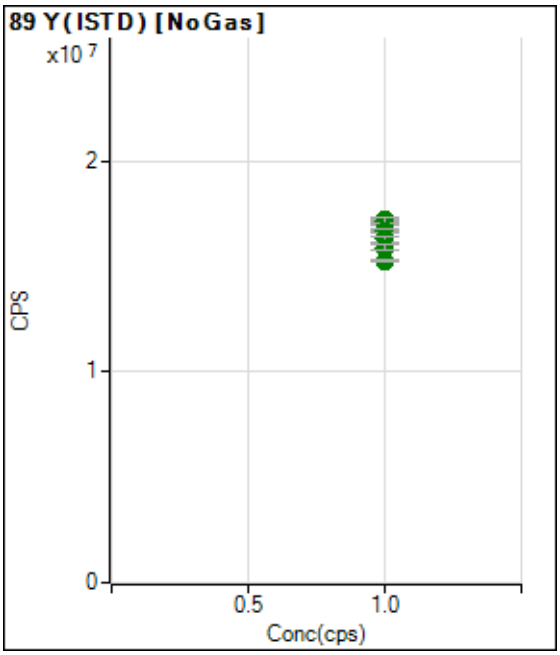


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1	☐	1.000		6307287.89		A	2.0
2	☐	1.000		6369265.25		A	2.6
3	☐	1.000		6408983.38		A	0.4
4	☐	1.000		6201199.49		A	1.9
5	☐	1.000		5926586.99		A	1.6
6	☐	1.000		5853700.12		A	2.1
7	☐	1.000		5699828.25		A	0.3
8	☐	1.000		5479427.14		A	1.1

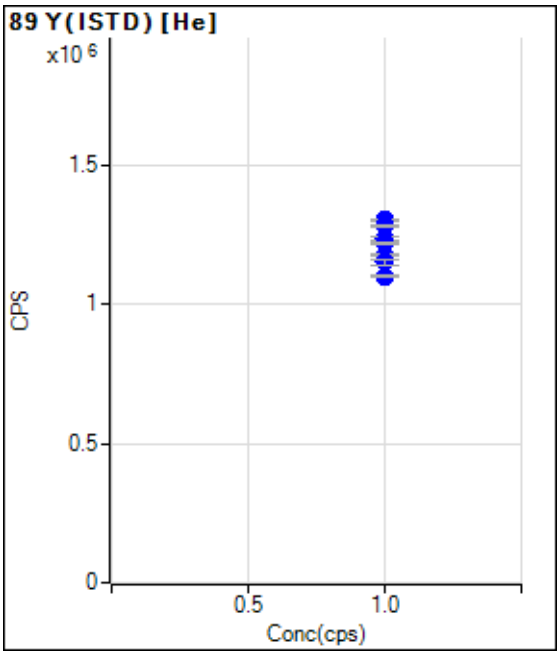


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		119946.44		P	0.6
2	☐	1.000		122979.64		P	0.6
3	☐	1.000		119641.79		P	0.4
4	☐	1.000		115946.44		P	0.2
5	☐	1.000		114269.87		P	0.3
6	☐	1.000		110278.01		P	0.6
7	☐	1.000		109920.07		P	1.0
8	☐	1.000		102480.95		P	0.3

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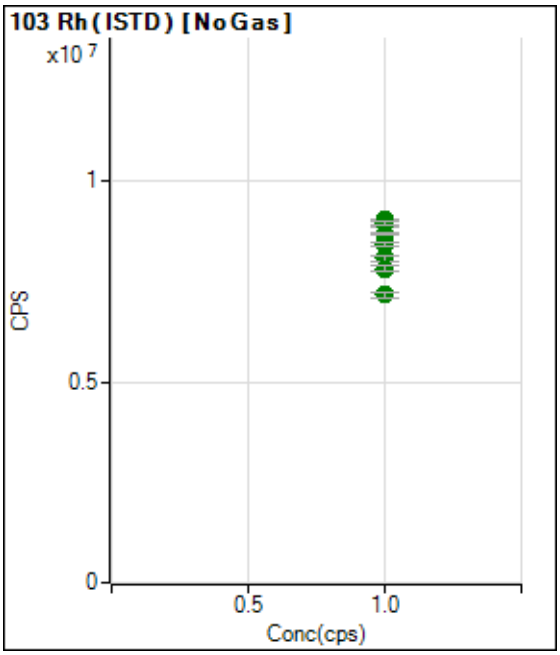


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16772047.52		A	0.6
2	☐	1.000		17157543.49		A	1.8
3	☐	1.000		17209378.91		A	0.6
4	☐	1.000		17186227.11		A	1.6
5	☐	1.000		16721659.34		A	0.9
6	☐	1.000		16289338.51		A	1.6
7	☐	1.000		15884319.90		A	1.6
8	☐	1.000		15278395.19		A	1.0

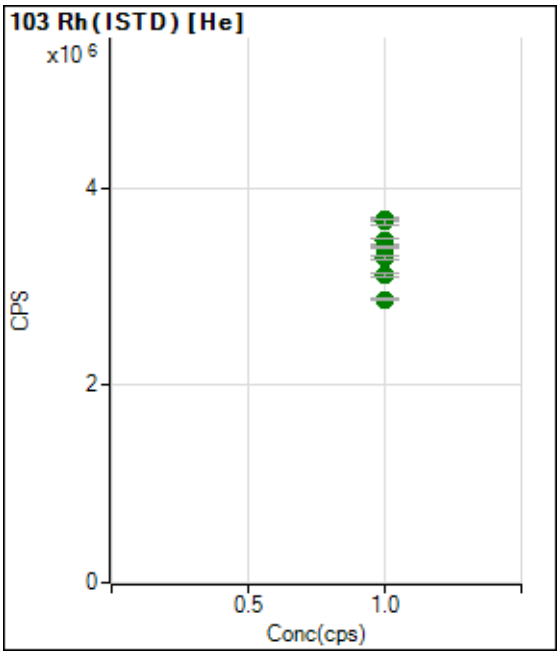


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1282879.29		P	0.6
2	☐	1.000		1304707.28		P	0.6
3	☐	1.000		1283490.33		P	0.5
4	☐	1.000		1238245.68		P	0.9
5	☐	1.000		1221709.61		P	0.6
6	☐	1.000		1178186.49		P	0.9
7	☐	1.000		1153912.81		P	1.6
8	☐	1.000		1102024.11		P	0.6

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Inst Id :P8
LB :LB135893

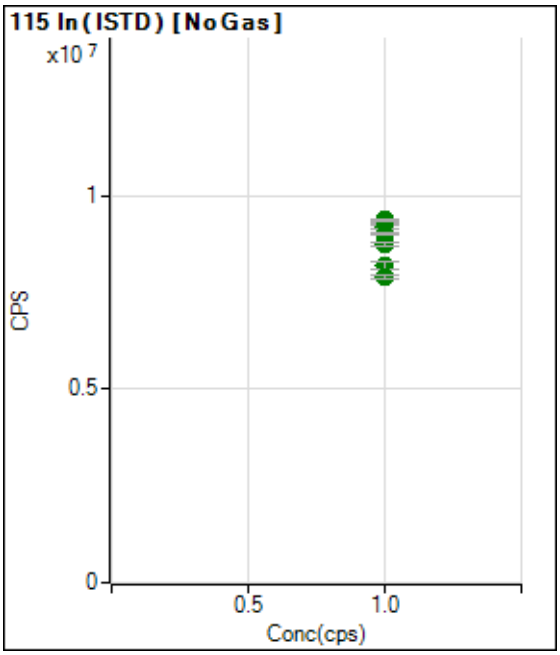


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1	☐	1.000		8943952.50		A	1.3
2	☐	1.000		9045967.43		A	0.7
3	☐	1.000		8985552.16		A	1.1
4	☐	1.000		8701253.83		A	1.1
5	☐	1.000		8440550.50		A	0.7
6	☐	1.000		8086718.77		A	2.1
7	☐	1.000		7824503.70		A	1.9
8	☐	1.000		7175772.39		A	1.8

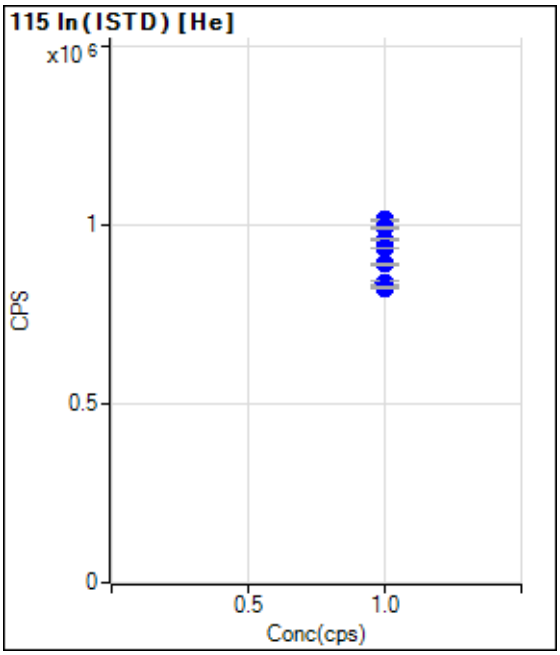


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3670489.91		A	0.5
2	☐	1.000		3679498.03		A	1.1
3	☐	1.000		3664445.64		A	1.5
4	☐	1.000		3470823.73		A	1.7
5	☐	1.000		3399902.38		A	0.8
6	☐	1.000		3294267.10		A	1.2
7	☐	1.000		3125271.66		A	1.2
8	☐	1.000		2870360.82		A	0.6

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

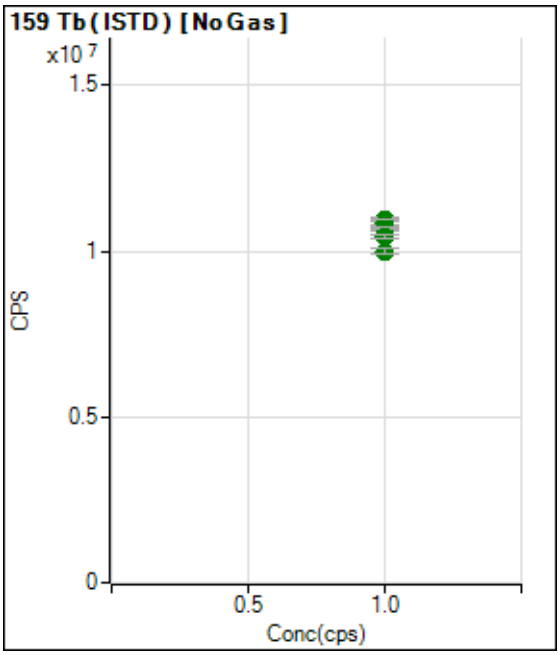


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1	☐	1.000		9214875.75		A	0.9
2	☐	1.000		9327988.59		A	0.9
3	☐	1.000		9310057.11		A	0.1
4	☐	1.000		9382944.95		A	0.7
5	☐	1.000		9023143.01		A	0.7
6	☐	1.000		8750211.43		A	0.9
7	☐	1.000		8199429.50		A	2.0
8	☐	1.000		7900363.38		A	1.3

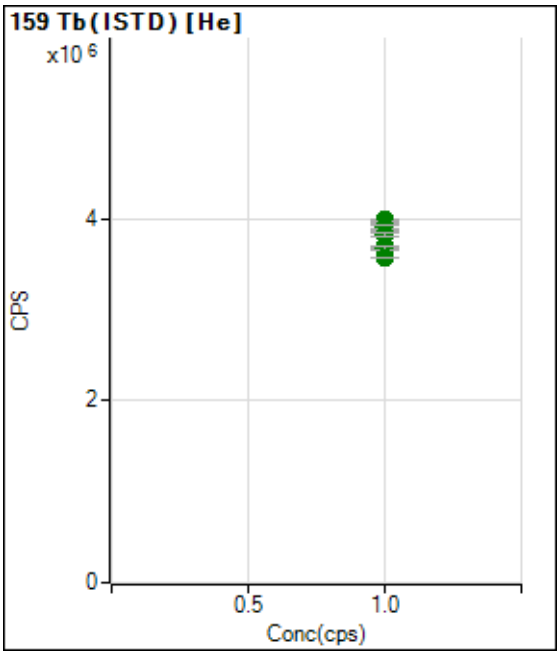


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		994340.03		P	0.2
2	☐	1.000		1013940.77		P	0.5
3	☐	1.000		991808.72		P	0.4
4	☐	1.000		958386.94		P	0.3
5	☐	1.000		935221.45		P	0.5
6	☐	1.000		889593.46		P	0.8
7	☐	1.000		839377.80		P	1.4
8	☐	1.000		824865.85		P	0.4

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

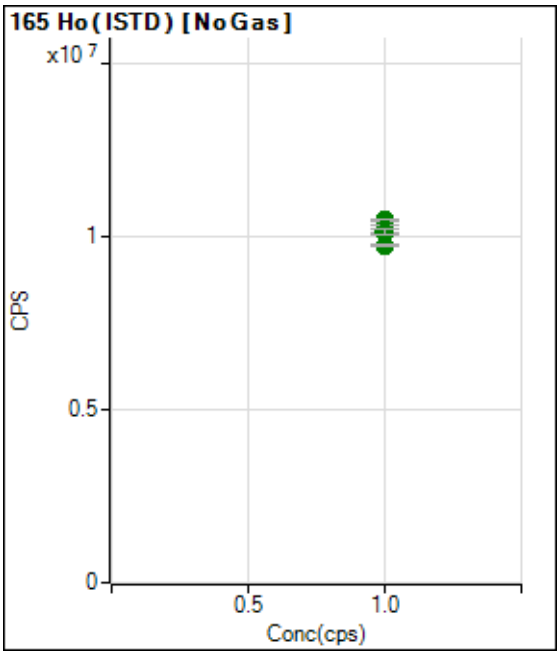


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10726683.87		A	0.9
2	☐	1.000		10732353.31		A	0.5
3	☐	1.000		10945609.14		A	1.1
4	☐	1.000		10865028.45		A	1.8
5	☐	1.000		10675991.30		A	1.0
6	☐	1.000		10697454.15		A	0.5
7	☐	1.000		10443696.30		A	1.1
8	☐	1.000		10005869.85		A	1.3

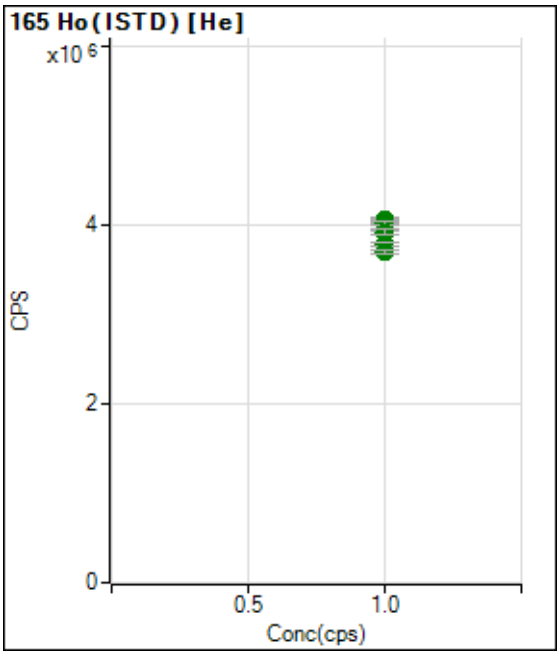


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3880994.84		A	0.7
2	☐	1.000		3989105.39		A	0.5
3	☐	1.000		3967669.42		A	0.5
4	☐	1.000		3905654.77		A	1.0
5	☐	1.000		3835714.08		A	1.2
6	☐	1.000		3690419.01		A	1.0
7	☐	1.000		3680522.27		A	0.7
8	☐	1.000		3577357.03		A	0.2

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Inst Id :P8
LB :LB135893

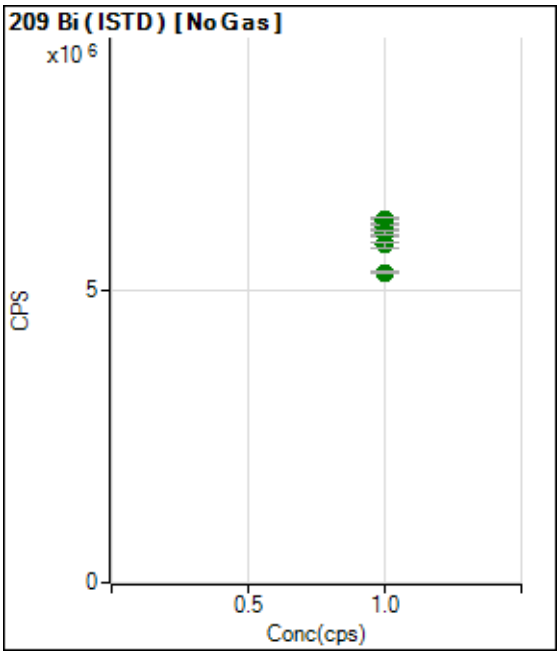


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10160265.13		A	1.4
2	☐	1.000		10217861.31		A	0.1
3	☐	1.000		10196868.81		A	0.3
4	☐	1.000		10408293.11		A	1.5
5	☐	1.000		10469782.69		A	0.5
6	☐	1.000		10206651.72		A	2.5
7	☐	1.000		10118231.31		A	1.7
8	☐	1.000		9729941.73		A	0.5

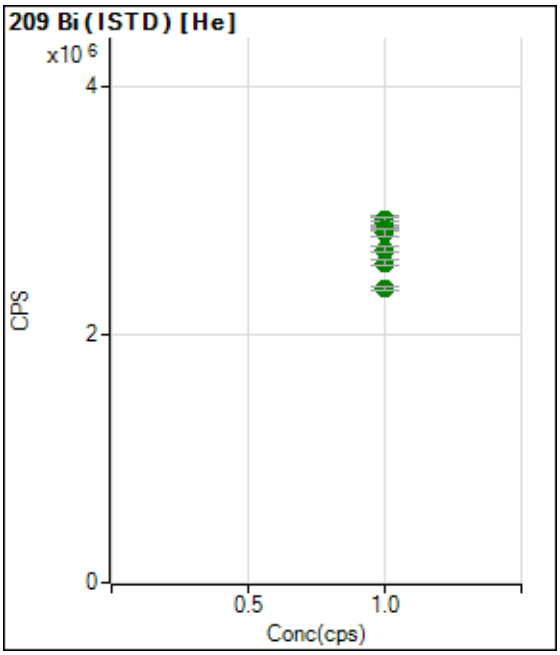


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4023085.60		A	0.9
2	☐	1.000		4053317.47		A	1.8
3	☐	1.000		4059191.40		A	0.7
4	☐	1.000		3955664.21		A	0.6
5	☐	1.000		4018209.11		A	1.3
6	☐	1.000		3919927.82		A	1.7
7	☐	1.000		3784937.23		A	0.9
8	☐	1.000		3709345.33		A	1.1

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6122766.02		A	0.1
2		1.000		5991230.95		A	2.0
3		1.000		6191296.09		A	1.1
4		1.000		6214274.08		A	1.3
5		1.000		6080777.90		A	1.7
6		1.000		5995237.55		A	1.1
7		1.000		5787804.08		A	1.8
8		1.000		5310863.53		A	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2901555.68		A	1.3
2		1.000		2909282.56		A	3.2
3		1.000		2923625.82		A	1.1
4		1.000		2848505.79		A	0.4
5		1.000		2816987.28		A	2.1
6		1.000		2686162.77		A	1.8
7		1.000		2574793.64		A	1.7
8		1.000		2372922.31		A	1.2

US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40 AM
Inst Id :P8
LB :LB135893

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8052225MS.b
Acq. Date-Time	2025-05-22 11:38:14
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		41361	413614.20			0.818	5.000
24		399928	3999282.38			0.405	5.000
25		55846	558455.60			0.994	5.000
26		64409	644085.00			0.821	5.000
59		164122	1641216.78			0.545	5.000
113		19957	199573.79			0.409	5.000
115		251628	2516279.28			0.875	5.000
206		50302	503023.44			0.810	5.000
207		43868	438678.54			0.696	5.000
208		107615	1076147.24			0.527	5.000
220		1	7.10			15.267	

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	40998	41536	41208	41859	41206
24	399316	401818	397721	401178	399608
25	55589	55388	55854	56794	55604
26	64353	64180	64210	65323	63976
59	162566	164602	164443	164784	164213
113	19913	19889	20060	20031	19894
115	250642	254988	250309	249544	252657
206	49707	50554	50189	50784	50278
207	43562	43650	44071	44292	43765
208	107259	106896	107716	108383	107819

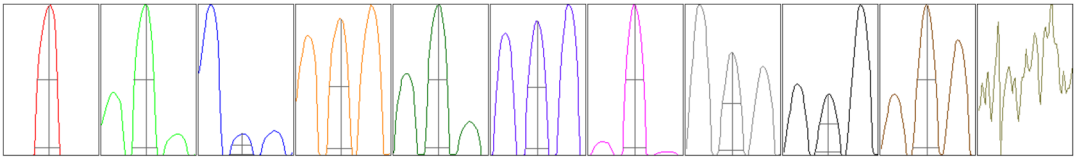
US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40 AM
Inst Id :P8
LB :LB135893

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	69751.49	8.95	8.90 - 9.10	
24	686391.08	23.95	23.90 - 24.10	
25	95814.26	24.90	24.90 - 25.10	
26	109039.09	25.95	25.90 - 26.10	
59	286786.78	58.95	58.90 - 59.10	
113	37494.01	113.00	112.90 - 113.10	
115	471150.92	115.00	114.90 - 115.10	
206	91537.13	206.00	205.90 - 206.10	
207	79139.24	206.95	206.90 - 207.10	
208	193666.53	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.784	0.900	
24	0.63	0.781	0.900	
25	0.62	0.741	0.900	
26	0.62	0.781	0.900	
59	0.61	0.777	0.900	
113	0.56	0.734	0.900	
115	0.56	0.735	0.900	
206	0.58	0.790	0.900	
207	0.58	0.821	0.900	
208	0.58	0.815	0.900	
220	0.46			

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

Reviewed By:Janv
On:5/23/2025 9:40 AM
Inst Id :P8
LB :LB135893

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	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.7 V	Deflect	14.8 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 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	150 V		

QP Parameters

Mass Gain	104	Axis Gain	0.9967	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	0.7 mm		

EM

Discriminator	4.5 mV	Analog HV	2174 V	Pulse HV	965 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		30912	309119.95			0.655	
89		46245	462451.71			0.910	
205		35741	357405.03			0.212	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	31026	31027	30924	31025	30558
89	46916	46193	46190	46180	45747
205	35807	35717	35832	35687	35659

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	7.7 V	Deflect	2.8 V

US EPA Tune Check Report

Reviewed By:Janv
On:5/23/2025 9:40
AM
Inst Id :P8
LB :LB135893

Extract 2	-175.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 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	0.9967	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	0.7 mm

EM

Discriminator	4.5 mV	Analog HV	2174 V	Pulse HV	965 V

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.42	-0.06	-0.35	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	0.01	-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	-0.03	0.02	0.02	0.00	N/A	ppb
Cadmium	106-1	-0.12	0.17	-0.05	0.00	N/A	ppb
Cadmium	111-1	-0.01	0.01	0.00	0.00	N/A	ppb
Calcium	43-1	1.82	0.72	-2.54	0.00	N/A	ppb
Calcium	44-1	0.67	0.61	-1.28	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	0.02	-0.02	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.00	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	-0.06	0.01	0.05	0.00	N/A	ppb
Iron	56-2	-0.01	0.08	-0.08	0.00	N/A	ppb
Iron	57-2	-0.04	0.31	-0.26	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	-0.01	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.36	-0.38	0.01	0.00	N/A	ppb
Manganese	55-2	-0.06	0.03	0.04	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.01	0.01	0.00	N/A	ppb
Phosphorus	31-2	-141.07	-144.78	-141.34	-142.39		ppb
Potassium	39-2	1.20	-1.59	0.39	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.05	-0.11	0.06	0.00	N/A	ppb
Selenium	77-2	-0.25	0.50	-0.25	0.00	N/A	ppb
Selenium	78-2	-0.22	-0.01	0.23	0.00	N/A	ppb
Silicon	28-1	-0.04	0.17	-0.14	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	0.70	0.83	-1.52	0.00	N/A	ppb
Strontium	86-1	-0.02	0.01	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-160.25	-175.95	-352.67	-229.62		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	-0.01	0.00	N/A	ppb
Titanium	47-1	0.00	-0.01	0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	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	0.06	-0.03	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.54	21.43	19.79	21.25	6.51	ppb
Antimony	121-1	2.05	2.10	2.12	2.09	1.76	ppb
Arsenic	75-2	1.05	0.87	0.96	0.96	9.76	ppb
Barium	135-1	10.35	10.39	10.39	10.38	0.21	ppb
Barium	137-1	10.52	10.58	10.46	10.52	0.60	ppb
Beryllium	9-1	1.18	1.15	1.19	1.17	1.81	ppb
Bismuth	209-1				98		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.93	0.97	1.12	1.00	9.76	ppb
Cadmium	106-1	1.19	1.32	1.47	1.33	10.53	ppb
Cadmium	111-1	1.04	1.03	1.04	1.04	0.45	ppb
Calcium	43-1	520.21	512.97	504.55	512.58	1.53	ppb
Calcium	44-1	531.15	519.64	503.91	518.23	2.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.07	2.02	2.03	2.04	1.10	ppb
Cobalt	59-2	1.08	1.10	1.10	1.09	0.85	ppb
Copper	63-2	2.03	2.08	2.11	2.07	1.76	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				102		%
Iron	54-2	56.86	55.67	55.30	55.94	1.46	ppb
Iron	56-2	53.55	53.85	52.28	53.23	1.56	ppb
Iron	57-2	51.46	51.68	51.29	51.47	0.38	ppb
Krypton	83-1						cps
Lead	206-1	0.81	0.86	0.81	0.82	3.72	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.88	0.90	0.90	0.89	1.62	ppb
Lead	208-1	0.86	0.87	0.85	0.86	1.01	ppb
Lithium	6-1				101		%
Magnesium	24-2	545.20	535.28	540.85	540.45	0.92	ppb
Manganese	55-2	1.15	0.99	1.01	1.05	8.13	ppb
Molybdenum	94-1	6.15	6.22	6.21	6.19	0.64	ppb
Molybdenum	95-1	5.19	5.22	4.98	5.13	2.47	ppb
Molybdenum	96-1	5.14	5.30	5.00	5.15	2.94	ppb
Molybdenum	97-1	5.15	5.33	5.01	5.17	3.08	ppb
Molybdenum	98-1	5.14	5.30	5.07	5.17	2.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.00	1.02	0.94	0.98	4.11	ppb
Phosphorus	31-2	160.41	133.28	133.49	142.39	10.96	ppb
Potassium	39-2	515.04	523.00	517.75	518.60	0.78	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	5.01	5.61	5.25	5.29	5.71	ppb
Selenium	77-2	2.00	4.27	4.96	3.75	41.36	ppb
Selenium	78-2	7.71	3.97	7.85	6.51	33.78	ppb
Silicon	28-1	0.82	0.48	0.41	0.57	38.48	ppb
Silver	107-1	1.12	1.17	1.16	1.15	2.44	ppb
Silver	109-1	1.10	1.14	1.16	1.13	2.95	ppb
Sodium	23-2	524.03	525.87	518.84	522.91	0.70	ppb
Strontium	86-1	1.04	1.02	1.04	1.03	1.32	ppb
Strontium	88-1	1.02	1.05	1.04	1.03	1.31	ppb
Sulfur	34-1	532.85	126.91	29.11	229.62	116.33	ppb
Terbium	159-1				100		%
Terbium	159-2				103		%
Thallium	203-1	1.00	1.03	0.98	1.00	2.40	ppb
Thallium	205-1	1.02	1.03	0.99	1.01	2.36	ppb
Tin	118-1	5.20	5.30	5.32	5.27	1.21	ppb
Titanium	47-1	5.70	5.43	5.24	5.46	4.22	ppb
Uranium	238-1	0.97	0.97	0.97	0.97	0.34	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.39	5.13	5.24	5.25	2.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	5.20	5.31	4.96	5.16	3.41	ppb
Zirconium	90-1	1.04	1.10	1.06	1.07	2.70	ppb
Zirconium	91-1	1.11	1.10	1.03	1.08	3.94	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1017.70	1028.44	1021.42	1022.52	0.53	ppb
Antimony	121-1	49.01	49.19	49.73	49.31	0.76	ppb
Arsenic	75-2	49.65	51.00	51.29	50.65	1.73	ppb
Barium	135-1	246.34	249.00	252.47	249.27	1.23	ppb
Barium	137-1	248.98	253.16	257.44	253.19	1.67	ppb
Beryllium	9-1	55.41	55.29	54.53	55.08	0.87	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	52.59	52.76	54.73	53.36	2.23	ppb
Cadmium	106-1	52.83	53.35	54.38	53.52	1.47	ppb
Cadmium	111-1	50.69	51.80	52.51	51.66	1.77	ppb
Calcium	43-1	5028.11	5064.27	4977.19	5023.19	0.87	ppb
Calcium	44-1	5005.91	5041.96	4904.23	4984.03	1.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.01	49.51	50.18	49.90	0.69	ppb
Cobalt	59-2	51.14	51.68	51.59	51.47	0.56	ppb
Copper	63-2	543.17	537.00	530.86	537.01	1.15	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				101		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	54-2	2649.32	2565.27	2624.70	2613.10	1.65	ppb
Iron	56-2	2645.35	2590.15	2531.79	2589.10	2.19	ppb
Iron	57-2	2580.45	2550.44	2543.23	2558.04	0.77	ppb
Krypton	83-1						cps
Lead	206-1	253.05	249.74	245.52	249.44	1.51	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	246.96	246.30	244.58	245.95	0.50	ppb
Lead	208-1	248.81	246.67	245.53	247.00	0.67	ppb
Lithium	6-1				99		%
Magnesium	24-2	5294.10	5322.60	5346.10	5320.93	0.49	ppb
Manganese	55-2	513.58	509.27	511.22	511.36	0.42	ppb
Molybdenum	94-1	496.75	504.17	497.54	499.48	0.82	ppb
Molybdenum	95-1	510.12	513.60	504.33	509.35	0.92	ppb
Molybdenum	96-1	501.06	502.40	504.30	502.58	0.32	ppb
Molybdenum	97-1	507.59	506.68	515.94	510.07	1.00	ppb
Molybdenum	98-1	507.11	505.75	505.44	506.10	0.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.86	53.97	53.20	53.68	0.78	ppb
Phosphorus	31-2	914.35	904.35	901.09	906.60	0.76	ppb
Potassium	39-2	2606.34	2575.97	2594.82	2592.38	0.59	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	51.46	51.10	53.74	52.10	2.75	ppb
Selenium	77-2	49.39	53.32	50.58	51.10	3.95	ppb
Selenium	78-2	58.82	50.41	49.73	52.99	9.56	ppb
Silicon	28-1	51.31	51.73	50.54	51.19	1.17	ppb
Silver	107-1	50.92	51.75	52.51	51.72	1.54	ppb
Silver	109-1	51.23	52.36	53.50	52.36	2.17	ppb
Sodium	23-2	5082.84	5285.26	5149.92	5172.68	1.99	ppb
Strontium	86-1	48.66	49.24	50.03	49.31	1.40	ppb
Strontium	88-1	51.46	49.76	51.10	50.77	1.77	ppb
Sulfur	34-1	1432.82	1438.46	1303.42	1391.57	5.49	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	46.20	47.07	47.84	47.04	1.75	ppb
Thallium	205-1	47.13	47.08	47.96	47.39	1.04	ppb
Tin	118-1	50.04	50.56	51.09	50.56	1.04	ppb
Titanium	47-1	497.71	506.30	499.79	501.27	0.89	ppb
Uranium	238-1	45.29	45.50	46.15	45.65	0.97	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.94	50.58	51.00	50.84	0.44	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	516.42	512.34	513.73	514.16	0.40	ppb
Zirconium	90-1	48.10	49.22	49.18	48.84	1.30	ppb
Zirconium	91-1	49.28	49.36	49.69	49.45	0.44	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2580.36	2576.22	2542.61	2566.40	0.81	ppb
Antimony	121-1	125.16	128.07	129.15	127.46	1.62	ppb
Arsenic	75-2	127.83	123.14	124.62	125.20	1.91	ppb
Barium	135-1	617.37	635.80	656.01	636.39	3.04	ppb
Barium	137-1	616.01	634.29	682.10	644.13	5.30	ppb
Beryllium	9-1	132.72	135.47	135.72	134.64	1.23	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	128.12	131.75	133.89	131.26	2.22	ppb
Cadmium	106-1	126.61	130.97	132.93	130.17	2.49	ppb
Cadmium	111-1	124.56	127.75	129.66	127.32	2.02	ppb
Calcium	43-1	12458.80	12282.31	12633.06	12458.06	1.41	ppb
Calcium	44-1	12329.84	12161.69	12472.50	12321.34	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	123.67	123.96	122.96	123.53	0.41	ppb
Cobalt	59-2	126.94	127.00	125.84	126.59	0.52	ppb
Copper	63-2	1308.95	1313.08	1294.75	1305.59	0.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	6539.71	6464.55	6367.86	6457.37	1.33	ppb
Iron	56-2	6477.26	6499.71	6332.74	6436.57	1.41	ppb
Iron	57-2	6278.66	6317.31	6351.06	6315.67	0.57	ppb
Krypton	83-1						cps
Lead	206-1	607.36	624.74	612.69	614.93	1.45	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	603.23	634.83	602.73	613.59	3.00	ppb
Lead	208-1	610.43	618.14	603.44	610.67	1.20	ppb
Lithium	6-1				98		%
Magnesium	24-2	12821.49	13004.23	13109.78	12978.50	1.12	ppb
Manganese	55-2	1289.31	1323.00	1279.72	1297.34	1.75	ppb
Molybdenum	94-1	1165.41	1234.06	1195.36	1198.28	2.87	ppb
Molybdenum	95-1	1201.66	1261.83	1221.13	1228.21	2.50	ppb
Molybdenum	96-1	1184.26	1239.87	1195.32	1206.49	2.44	ppb
Molybdenum	97-1	1182.53	1251.26	1214.25	1216.01	2.83	ppb
Molybdenum	98-1	1187.51	1239.82	1234.88	1220.74	2.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	131.57	131.70	131.12	131.46	0.23	ppb
Phosphorus	31-2	2323.43	2285.95	2366.26	2325.21	1.73	ppb
Potassium	39-2	6358.47	6471.90	6447.66	6426.01	0.93	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	122.12	124.90	126.39	124.47	1.74	ppb
Selenium	77-2	129.95	126.99	119.40	125.45	4.34	ppb
Selenium	78-2	127.12	131.21	124.56	127.63	2.63	ppb
Silicon	28-1	128.32	124.34	128.46	127.04	1.84	ppb
Silver	107-1	131.85	135.15	134.21	133.74	1.27	ppb
Silver	109-1	132.44	135.04	137.34	134.94	1.82	ppb
Sodium	23-2	13050.55	12586.04	12702.95	12779.85	1.89	ppb
Strontium	86-1	116.43	121.94	119.48	119.28	2.31	ppb
Strontium	88-1	119.12	124.26	123.00	122.13	2.19	ppb
Sulfur	34-1	3443.26	3063.05	3277.20	3261.17	5.84	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	115.45	119.73	116.43	117.20	1.91	ppb
Thallium	205-1	119.50	121.30	122.57	121.12	1.27	ppb
Tin	118-1	121.45	123.69	129.33	124.83	3.25	ppb
Titanium	47-1	1265.97	1220.23	1269.04	1251.74	2.18	ppb
Uranium	238-1	118.75	120.46	119.11	119.44	0.76	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	124.98	125.69	124.32	125.00	0.55	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				97		%
Zinc	66-2	1261.95	1270.92	1265.67	1266.18	0.36	ppb
Zirconium	90-1	120.96	124.43	123.08	122.82	1.42	ppb
Zirconium	91-1	116.12	122.94	120.93	120.00	2.92	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5144.21	5138.13	5167.12	5149.82	0.30	ppb
Antimony	121-1	251.05	262.39	253.22	255.55	2.36	ppb
Arsenic	75-2	253.81	253.36	246.73	251.30	1.58	ppb
Barium	135-1	1266.01	1326.86	1287.74	1293.54	2.38	ppb
Barium	137-1	1262.91	1339.38	1302.38	1301.56	2.94	ppb
Beryllium	9-1	267.15	270.79	274.75	270.89	1.40	ppb
Bismuth	209-1				99		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	255.96	269.15	264.33	263.15	2.54	ppb
Cadmium	106-1	257.31	264.58	266.84	262.91	1.89	ppb
Cadmium	111-1	249.00	257.08	258.78	254.96	2.05	ppb
Calcium	43-1	26139.21	25393.57	25798.67	25777.15	1.45	ppb
Calcium	44-1	26076.67	25150.93	25574.02	25600.54	1.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	248.48	249.62	250.40	249.50	0.39	ppb
Cobalt	59-2	254.37	250.65	253.35	252.79	0.76	ppb
Copper	63-2	2610.26	2568.65	2608.77	2595.89	0.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				100		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	54-2	13260.34	13247.08	13200.90	13236.11	0.24	ppb
Iron	56-2	12901.92	12834.56	12806.33	12847.60	0.38	ppb
Iron	57-2	12659.58	12685.18	12540.73	12628.50	0.61	ppb
Krypton	83-1						cps
Lead	206-1	1295.98	1249.37	1258.92	1268.09	1.94	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1283.37	1275.16	1257.63	1272.05	1.03	ppb
Lead	208-1	1258.45	1262.04	1274.44	1264.98	0.66	ppb
Lithium	6-1				95		%
Magnesium	24-2	26138.59	25940.17	25332.84	25803.87	1.63	ppb
Manganese	55-2	2566.09	2546.08	2595.14	2569.10	0.96	ppb
Molybdenum	94-1	2506.09	2459.93	2463.17	2476.40	1.04	ppb
Molybdenum	95-1	2452.13	2489.13	2500.89	2480.72	1.03	ppb
Molybdenum	96-1	2499.84	2523.68	2414.50	2479.34	2.32	ppb
Molybdenum	97-1	2515.97	2495.77	2516.36	2509.37	0.47	ppb
Molybdenum	98-1	2513.29	2461.64	2489.99	2488.31	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	263.30	262.62	262.09	262.67	0.23	ppb
Phosphorus	31-2	4940.13	4931.13	5038.49	4969.92	1.20	ppb
Potassium	39-2	12917.33	12871.80	12655.98	12815.04	1.09	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				94		%
Scandium	45-2				95		%
Selenium	82-1	257.04	259.84	255.11	257.33	0.92	ppb
Selenium	77-2	245.97	238.36	250.31	244.88	2.47	ppb
Selenium	78-2	262.92	247.62	248.19	252.91	3.43	ppb
Silicon	28-1	256.27	259.35	256.57	257.39	0.66	ppb
Silver	107-1	259.86	270.25	262.45	264.18	2.05	ppb
Silver	109-1	257.73	267.67	271.82	265.74	2.72	ppb
Sodium	23-2	25819.21	26106.45	25982.90	25969.52	0.55	ppb
Strontium	86-1	244.09	247.41	243.10	244.87	0.92	ppb
Strontium	88-1	247.60	253.61	251.43	250.88	1.21	ppb
Sulfur	34-1	7041.87	6651.57	6431.98	6708.47	4.60	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	263.91	255.60	249.21	256.24	2.88	ppb
Thallium	205-1	249.76	252.04	252.59	251.46	0.60	ppb
Tin	118-1	256.79	260.45	265.38	260.87	1.65	ppb
Titanium	47-1	2603.52	2487.14	2514.55	2535.07	2.40	ppb
Uranium	238-1	244.88	249.81	249.86	248.18	1.15	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	251.71	250.67	253.89	252.09	0.65	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	2527.12	2529.88	2530.67	2529.22	0.07	ppb
Zirconium	90-1	250.19	257.49	245.67	251.12	2.38	ppb
Zirconium	91-1	243.01	247.96	244.02	245.00	1.07	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10133.47	10452.33	10362.13	10315.98	1.59	ppb
Antimony	121-1	498.13	498.85	507.20	501.40	1.01	ppb
Arsenic	75-2	499.59	502.73	510.51	504.28	1.11	ppb
Barium	135-1	2517.97	2542.92	2544.85	2535.24	0.59	ppb
Barium	137-1	2515.42	2559.99	2541.26	2538.89	0.88	ppb
Beryllium	9-1	503.00	494.32	489.03	495.45	1.42	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	497.38	511.14	510.80	506.44	1.55	ppb
Cadmium	106-1	495.15	512.41	513.50	507.02	2.03	ppb
Cadmium	111-1	511.99	502.88	513.41	509.42	1.12	ppb
Calcium	43-1	51749.92	48925.29	49521.76	50065.66	2.97	ppb
Calcium	44-1	51673.59	49317.22	49788.97	50259.93	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	500.55	504.18	510.24	504.99	0.97	ppb
Cobalt	59-2	525.01	523.79	520.80	523.20	0.41	ppb
Copper	63-2	5222.73	5199.92	5131.35	5184.67	0.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				89		%
Iron	54-2	25907.13	26928.12	26440.96	26425.40	1.93	ppb
Iron	56-2	25244.88	25594.64	25957.86	25599.13	1.39	ppb
Iron	57-2	24786.61	25399.62	25306.30	25164.18	1.31	ppb
Krypton	83-1						cps
Lead	206-1	2485.79	2484.96	2460.33	2477.03	0.58	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2465.19	2551.88	2483.92	2500.33	1.82	ppb
Lead	208-1	2475.09	2523.90	2457.98	2485.66	1.38	ppb
Lithium	6-1				93		%
Magnesium	24-2	51912.92	52284.21	52600.58	52265.90	0.66	ppb
Manganese	55-2	4995.74	5062.26	5011.67	5023.22	0.69	ppb
Molybdenum	94-1	5088.67	4944.13	5021.36	5018.05	1.44	ppb
Molybdenum	95-1	5132.92	4983.32	5026.84	5047.69	1.52	ppb
Molybdenum	96-1	4990.90	4914.35	4969.82	4958.36	0.80	ppb
Molybdenum	97-1	5009.61	5036.86	4955.75	5000.74	0.83	ppb
Molybdenum	98-1	5149.52	5109.44	5121.51	5126.82	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	513.87	525.47	516.60	518.65	1.17	ppb
Phosphorus	31-2	9948.02	10032.41	10334.11	10104.85	2.01	ppb
Potassium	39-2	25859.44	26281.36	25905.61	26015.47	0.89	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	505.80	499.64	505.52	503.65	0.69	ppb
Selenium	77-2	537.34	499.33	538.90	525.19	4.27	ppb
Selenium	78-2	520.58	517.03	521.51	519.71	0.46	ppb
Silicon	28-1	518.01	491.40	495.82	501.74	2.84	ppb
Silver	107-1	510.31	514.70	498.64	507.88	1.63	ppb
Silver	109-1	505.69	506.66	513.15	508.50	0.80	ppb
Sodium	23-2	50508.90	51508.23	53569.82	51862.32	3.01	ppb
Strontium	86-1	509.59	495.05	506.94	503.86	1.54	ppb
Strontium	88-1	490.53	492.20	499.37	494.03	0.95	ppb
Sulfur	34-1	10448.17	9273.12	9235.94	9652.41	7.14	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	499.46	505.59	495.98	500.34	0.97	ppb
Thallium	205-1	497.02	486.31	488.44	490.59	1.16	ppb
Tin	118-1	486.88	498.48	508.95	498.11	2.22	ppb
Titanium	47-1	5155.72	4831.64	4937.73	4975.03	3.32	ppb
Uranium	238-1	492.49	505.68	484.71	494.29	2.14	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	503.35	507.30	508.83	506.49	0.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				92		%
Zinc	66-2	5167.40	5261.64	5193.13	5207.39	0.94	ppb
Zirconium	90-1	511.41	497.54	498.28	502.41	1.55	ppb
Zirconium	91-1	515.26	505.05	505.72	508.68	1.12	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20234.70	20423.43	19935.26	20197.80	1.22	ppb
Antimony	121-1	965.33	1012.38	1015.21	997.64	2.81	ppb
Arsenic	75-2	1011.10	996.75	984.59	997.48	1.33	ppb
Barium	135-1	4887.52	4988.32	5034.48	4970.11	1.51	ppb
Barium	137-1	4732.98	5109.37	5052.99	4965.11	4.09	ppb
Beryllium	9-1	974.36	1015.37	997.04	995.59	2.06	ppb
Bismuth	209-1				95		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	972.76	995.79	1009.08	992.54	1.85	ppb
Cadmium	106-1	964.81	1007.92	1004.59	992.44	2.42	ppb
Cadmium	111-1	964.01	1002.85	1014.16	993.67	2.65	ppb
Calcium	43-1	94182.82	99583.27	98222.46	97329.52	2.89	ppb
Calcium	44-1	96983.10	101073.55	100068.00	99374.88	2.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1017.15	996.01	980.29	997.82	1.85	ppb
Cobalt	59-2	1004.89	995.75	961.65	987.43	2.31	ppb
Copper	63-2	9953.43	9820.59	9850.65	9874.89	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				94		%
Indium	115-1				89		%
Indium	115-2				84		%
Iron	54-2	51040.42	50799.42	50845.27	50895.04	0.25	ppb
Iron	56-2	50724.83	49695.05	47838.47	49419.45	2.96	ppb
Iron	57-2	49983.09	50795.75	50459.70	50412.85	0.81	ppb
Krypton	83-1						cps
Lead	206-1	5049.36	5003.84	4971.55	5008.25	0.78	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4936.87	5126.42	4924.56	4995.95	2.27	ppb
Lead	208-1	4959.52	5072.48	4984.10	5005.37	1.19	ppb
Lithium	6-1				89		%
Magnesium	24-2	102552.15	100458.07	100514.34	101174.85	1.18	ppb
Manganese	55-2	10058.01	9970.87	9865.00	9964.63	0.97	ppb
Molybdenum	94-1	9987.48	10119.80	9902.81	10003.36	1.09	ppb
Molybdenum	95-1	10078.12	10021.07	9850.50	9983.23	1.19	ppb
Molybdenum	96-1	10118.23	10072.94	9902.72	10031.30	1.13	ppb
Molybdenum	97-1	9856.10	10204.87	9942.13	10001.03	1.82	ppb
Molybdenum	98-1	9949.46	10090.90	9788.23	9942.87	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1002.26	979.43	977.86	986.52	1.38	ppb
Phosphorus	31-2	20149.20	20089.10	19706.54	19981.62	1.20	ppb
Potassium	39-2	50467.38	49383.51	49481.21	49777.37	1.20	ppb
Rhodium	103-1				87		%
Rhodium	103-2				85		%
Scandium	45-1				90		%
Scandium	45-2				92		%
Selenium	82-1	1008.30	996.27	984.33	996.30	1.20	ppb
Selenium	77-2	1018.86	977.98	968.90	988.58	2.69	ppb
Selenium	78-2	1021.81	979.38	965.61	988.93	2.96	ppb
Silicon	28-1	1007.11	996.84	987.23	997.06	1.00	ppb
Silver	107-1	974.20	991.69	1008.12	991.33	1.71	ppb
Silver	109-1	977.32	981.76	1012.29	990.46	1.92	ppb
Sodium	23-2	100899.39	99676.50	101123.05	100566.31	0.77	ppb
Strontium	86-1	1009.80	995.98	994.52	1000.10	0.84	ppb
Strontium	88-1	999.24	1008.15	1001.86	1003.08	0.46	ppb
Sulfur	34-1	19669.15	19954.28	19272.42	19631.95	1.74	ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	1012.26	1000.02	985.90	999.39	1.32	ppb
Thallium	205-1	1009.87	987.61	1017.39	1004.95	1.54	ppb
Tin	118-1	973.75	1012.05	1008.86	998.22	2.13	ppb
Titanium	47-1	9841.79	10090.84	10077.68	10003.44	1.40	ppb
Uranium	238-1	990.01	1021.58	1001.07	1004.22	1.60	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	988.53	1007.64	992.40	996.19	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				90		%
Zinc	66-2	10122.43	9817.94	9718.43	9886.27	2.13	ppb
Zirconium	90-1	994.54	1011.23	990.77	998.85	1.09	ppb
Zirconium	91-1	998.51	1002.92	991.27	997.57	0.59	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99408.97	99334.59	101014.84	99919.47	0.95	ppb
Antimony	121-1	0.59	0.56	0.55	0.56	3.16	ppb
Arsenic	75-2	0.36	0.41	0.43	0.40	9.16	ppb
Barium	135-1	2.35	2.35	2.30	2.33	1.35	ppb
Barium	137-1	2.45	2.30	2.39	2.38	3.25	ppb
Beryllium	9-1	0.25	0.21	0.18	0.21	16.72	ppb
Bismuth	209-1				87		%
Bismuth	209-2				82		%
Bromine	81-1						cps
Cadmium	108-1	0.69	0.45	0.44	0.53	26.75	ppb
Cadmium	106-1	-0.88	-0.38	-0.98	-0.75		ppb
Cadmium	111-1	0.07	0.12	0.08	0.09	28.88	ppb
Calcium	43-1	503180.43	495272.28	503015.72	500489.48	0.90	ppb
Calcium	44-1	502394.91	502455.43	495370.49	500073.61	0.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.27	1.30	1.25	1.27	1.98	ppb
Cobalt	59-2	1.18	1.20	1.18	1.19	1.17	ppb
Copper	63-2	1.27	1.25	1.24	1.25	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				96		%
Holmium	165-2				92		%
Indium	115-1				86		%
Indium	115-2				83		%
Iron	54-2	251778.01	247765.16	249362.82	249635.33	0.81	ppb
Iron	56-2	248922.94	251994.26	249182.59	250033.26	0.68	ppb
Iron	57-2	248736.09	249651.43	251289.58	249892.37	0.52	ppb
Krypton	83-1						cps
Lead	206-1	3.84	3.85	3.82	3.83	0.42	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.93	3.85	3.86	3.88	1.05	ppb
Lead	208-1	3.85	3.84	3.86	3.85	0.19	ppb
Lithium	6-1				82		%
Magnesium	24-2	500135.17	494411.51	503902.42	499483.03	0.96	ppb
Manganese	55-2	3.94	3.62	3.70	3.76	4.43	ppb
Molybdenum	94-1	2.81	2.55	2.55	2.64	5.71	ppb
Molybdenum	95-1	1.48	1.31	1.19	1.33	11.15	ppb
Molybdenum	96-1	2.31	2.09	2.05	2.15	6.61	ppb
Molybdenum	97-1	1.41	1.26	1.20	1.29	8.40	ppb
Molybdenum	98-1	1.41	1.20	1.16	1.26	10.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.49	2.40	2.52	2.47	2.58	ppb
Phosphorus	31-2	-122.95	-139.89	-126.94	-129.93		ppb
Potassium	39-2	250035.78	249432.86	250296.95	249921.87	0.18	ppb
Rhodium	103-1				80		%
Rhodium	103-2				78		%
Scandium	45-1				87		%
Scandium	45-2				85		%
Selenium	82-1	1.32	0.80	0.63	0.92	39.29	ppb
Selenium	77-2	-0.25	-0.25	-0.25	-0.25		ppb
Selenium	78-2	1.82	-0.27	2.11	1.22	106.50	ppb
Silicon	28-1	1.73	1.09	1.05	1.29	29.52	ppb
Silver	107-1	0.11	0.10	0.10	0.10	6.41	ppb
Silver	109-1	0.11	0.11	0.08	0.10	13.34	ppb
Sodium	23-2	499261.62	499846.76	499821.47	499643.28	0.07	ppb
Strontium	86-1	3.42	3.35	3.25	3.34	2.58	ppb
Strontium	88-1	3.48	3.36	3.41	3.42	1.69	ppb
Sulfur	34-1	-389.86	-464.32	-274.82	-376.33		ppb
Terbium	159-1				93		%
Terbium	159-2				92		%
Thallium	203-1	0.10	0.07	0.07	0.08	17.33	ppb
Thallium	205-1	0.09	0.08	0.08	0.08	8.98	ppb
Tin	118-1	0.14	0.07	0.07	0.10	42.39	ppb
Titanium	47-1	1.10	1.03	1.00	1.05	4.67	ppb
Uranium	238-1	0.06	0.05	0.04	0.05	14.42	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.26	0.25	0.26	0.26	1.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				86		%
Zinc	66-2	43.89	42.99	43.93	43.60	1.23	ppb
Zirconium	90-1	0.85	0.79	0.82	0.82	3.59	ppb
Zirconium	91-1	0.83	0.79	0.87	0.83	4.86	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	473.49	459.75	456.48	463.24	1.95	ppb
Antimony	121-1	194.29	193.33	199.51	195.71	1.70	ppb
Arsenic	75-2	191.49	192.49	193.47	192.48	0.52	ppb
Barium	135-1	95.90	98.25	97.28	97.14	1.22	ppb
Barium	137-1	97.56	97.11	99.14	97.94	1.09	ppb
Beryllium	9-1	104.75	106.31	108.37	106.48	1.70	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	82.64	83.84	85.56	84.01	1.75	ppb
Cadmium	106-1	77.56	76.79	79.49	77.95	1.79	ppb
Cadmium	111-1	98.20	97.50	98.41	98.04	0.49	ppb
Calcium	43-1	1816.95	1872.57	1914.01	1867.85	2.61	ppb
Calcium	44-1	1811.95	1873.24	1927.11	1870.77	3.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.30	95.06	96.46	95.94	0.80	ppb
Cobalt	59-2	99.74	98.74	100.10	99.52	0.70	ppb
Copper	63-2	101.24	100.25	101.52	101.00	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				100		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	2008.13	1971.71	2012.37	1997.41	1.12	ppb
Iron	56-2	1929.45	1922.83	1978.91	1943.73	1.58	ppb
Iron	57-2	1901.95	1883.66	1880.69	1888.76	0.61	ppb
Krypton	83-1						cps
Lead	206-1	202.98	205.65	201.74	203.45	0.98	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	186.84	190.28	190.98	189.37	1.17	ppb
Lead	208-1	199.25	201.80	198.46	199.84	0.87	ppb
Lithium	6-1				97		%
Magnesium	24-2	1141.32	1124.97	1153.15	1139.81	1.24	ppb
Manganese	55-2	99.76	97.51	98.48	98.58	1.15	ppb
Molybdenum	94-1	0.09	0.10	0.09	0.09	5.31	ppb
Molybdenum	95-1	0.02	0.03	0.02	0.03	22.95	ppb
Molybdenum	96-1	0.05	0.05	0.05	0.05	3.53	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.04	12.21	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	17.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	111.18	109.15	110.59	110.30	0.95	ppb
Phosphorus	31-2	-134.52	-133.69	-141.86	-136.69		ppb
Potassium	39-2	1901.47	1872.96	1899.75	1891.39	0.85	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	200.18	210.44	202.54	204.39	2.63	ppb
Selenium	77-2	178.56	200.02	221.05	199.88	10.63	ppb
Selenium	78-2	212.12	205.66	204.46	207.41	1.99	ppb
Silicon	28-1	-0.17	-0.21	-0.08	-0.16		ppb
Silver	107-1	45.99	47.06	46.77	46.61	1.19	ppb
Silver	109-1	46.84	47.19	47.17	47.07	0.41	ppb
Sodium	23-2	1969.18	1941.24	1961.36	1957.26	0.74	ppb
Strontium	86-1	0.21	0.27	0.22	0.23	13.31	ppb
Strontium	88-1	0.23	0.24	0.22	0.23	2.46	ppb
Sulfur	34-1	348.29	225.17	496.95	356.80	38.14	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	208.60	208.79	206.05	207.81	0.74	ppb
Thallium	205-1	206.84	200.54	201.78	203.05	1.64	ppb
Tin	118-1	-0.05	-0.06	-0.05	-0.05		ppb
Titanium	47-1	0.04	0.03	0.04	0.04	19.62	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	95.83	94.69	95.55	95.36	0.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	200.13	198.95	202.43	200.50	0.88	ppb
Zirconium	90-1	0.02	0.03	0.03	0.03	5.88	ppb
Zirconium	91-1	0.08	0.11	0.12	0.10	16.63	ppb

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.72	23.38	24.19	23.43	3.15	ppb
Antimony	121-1	2.08	2.03	2.12	2.08	1.95	ppb
Arsenic	75-2	0.92	1.22	1.01	1.05	14.67	ppb
Barium	135-1	10.37	10.17	10.20	10.25	1.08	ppb
Barium	137-1	10.38	10.28	10.57	10.41	1.41	ppb
Beryllium	9-1	1.17	1.23	1.17	1.19	3.01	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	1.17	0.87	0.97	1.00	15.05	ppb
Cadmium	106-1	-0.65	-1.05	0.03	-0.55		ppb
Cadmium	111-1	0.90	0.83	0.95	0.89	6.33	ppb
Calcium	43-1	523.31	537.55	528.88	529.91	1.35	ppb
Calcium	44-1	521.76	533.72	526.82	527.43	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.99	2.09	1.94	2.01	3.71	ppb
Cobalt	59-2	1.13	1.11	1.10	1.12	1.31	ppb
Copper	63-2	2.11	1.93	2.07	2.04	4.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				97		%
Iron	54-2	55.91	56.47	55.55	55.98	0.83	ppb
Iron	56-2	53.05	52.42	53.41	52.96	0.95	ppb
Iron	57-2	54.22	51.36	53.76	53.11	2.89	ppb
Krypton	83-1						cps
Lead	206-1	0.87	0.87	0.89	0.87	1.47	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.90	0.86	0.91	0.89	3.07	ppb
Lead	208-1	0.87	0.87	0.89	0.88	1.43	ppb
Lithium	6-1				95		%
Magnesium	24-2	552.64	539.52	555.59	549.25	1.56	ppb
Manganese	55-2	1.15	1.11	1.00	1.09	7.29	ppb
Molybdenum	94-1	6.19	6.11	6.14	6.15	0.59	ppb
Molybdenum	95-1	5.08	5.09	5.10	5.09	0.22	ppb
Molybdenum	96-1	5.15	5.23	4.99	5.12	2.36	ppb
Molybdenum	97-1	5.14	5.16	5.21	5.17	0.70	ppb
Molybdenum	98-1	5.03	5.18	4.98	5.06	2.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.92	0.95	0.94	1.70	ppb
Phosphorus	31-2	138.55	139.03	148.62	142.07	4.00	ppb
Potassium	39-2	524.76	521.56	538.18	528.17	1.67	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				94		%
Scandium	45-2				97		%
Selenium	82-1	5.46	5.78	5.39	5.54	3.75	ppb
Selenium	77-2	4.50	3.73	5.28	4.50	17.12	ppb
Selenium	78-2	5.64	3.12	5.86	4.87	31.29	ppb
Silicon	28-1	0.19	0.23	0.25	0.23	13.97	ppb
Silver	107-1	1.11	1.11	1.13	1.12	1.20	ppb
Silver	109-1	1.14	1.14	1.15	1.14	0.61	ppb
Sodium	23-2	535.52	536.42	550.32	540.75	1.53	ppb
Strontium	86-1	1.03	1.02	1.03	1.03	0.49	ppb
Strontium	88-1	1.03	1.03	1.02	1.03	0.79	ppb
Sulfur	34-1	1024.69	972.76	930.73	976.06	4.82	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	0.96	0.99	1.02	0.99	2.87	ppb
Thallium	205-1	1.00	1.01	1.03	1.01	1.48	ppb
Tin	118-1	5.22	5.11	5.19	5.18	1.10	ppb
Titanium	47-1	5.22	5.67	5.53	5.47	4.17	ppb
Uranium	238-1	0.94	0.98	0.96	0.96	2.03	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.22	5.04	5.31	5.19	2.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				96		%
Zinc	66-2	5.56	5.53	5.24	5.44	3.19	ppb
Zirconium	90-1	1.10	1.11	1.06	1.09	2.50	ppb
Zirconium	91-1	1.17	1.07	1.09	1.11	4.38	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.32	-0.95	-0.54	-0.60		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	11.44	ppb
Arsenic	75-2	-0.02	0.04	-0.01	0.00	2916.33	ppb
Barium	135-1	-0.03	-0.02	-0.02	-0.03		ppb
Barium	137-1	-0.01	-0.02	-0.02	-0.02		ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	185.73	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.02	-0.02	0.00	1491.66	ppb
Cadmium	106-1	-1.93	-1.08	-1.47	-1.49		ppb
Cadmium	111-1	-0.15	-0.08	-0.11	-0.12		ppb
Calcium	43-1	-12.92	-11.95	-13.66	-12.84		ppb
Calcium	44-1	-12.69	-13.64	-14.24	-13.52		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.06	-0.06	-0.09	-0.07		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.22	-0.19	-0.16	-0.19		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	-1.89	-1.25	-2.39	-1.84		ppb
Iron	56-2	-1.72	-1.86	-1.89	-1.82		ppb
Iron	57-2	-1.62	-2.28	-2.67	-2.19		ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.00	0.00	0.00	55.55	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.02	0.02	0.02	34.31	ppb
Lead	208-1	0.01	0.01	0.01	0.01	6.44	ppb
Lithium	6-1				95		%
Magnesium	24-2	-0.57	-0.95	-0.64	-0.72		ppb
Manganese	55-2	-0.14	-0.12	-0.16	-0.14		ppb
Molybdenum	94-1	0.01	0.00	0.00	0.01	92.86	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.08	-0.04	-0.06		ppb
Phosphorus	31-2	-136.37	-134.91	-149.06	-140.11		ppb
Potassium	39-2	3.68	4.89	5.42	4.67	19.13	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	-0.28	-0.56	-0.08	-0.31		ppb
Selenium	77-2	-0.25	-0.25	-0.25	-0.25		ppb
Selenium	78-2	-1.10	-0.86	-0.86	-0.94		ppb
Silicon	28-1	-0.45	-0.55	-0.29	-0.43		ppb
Silver	107-1	0.00	0.00	0.00	0.00	18.81	ppb
Silver	109-1	0.00	0.00	0.00	0.00	31.71	ppb
Sodium	23-2	10.38	11.37	13.01	11.59	11.48	ppb
Strontium	86-1	-0.01	-0.01	-0.02	-0.01		ppb
Strontium	88-1	-0.01	-0.01	-0.01	-0.01		ppb
Sulfur	34-1	575.92	410.36	485.18	490.49	16.90	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	0.00	0.00	0.01	0.00	86.90	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	42.89	ppb
Tin	118-1	-0.09	-0.08	-0.08	-0.09		ppb
Titanium	47-1	0.00	0.02	-0.01	0.00	475.59	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	-0.76	-0.46	-0.66	-0.63		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	26.91	ppb
Zirconium	91-1	0.00	0.01	0.00	0.01	115.13	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92381.90	91976.46	91279.50	91879.29	0.61	ppb
Antimony	121-1	1.08	1.06	1.11	1.08	2.25	ppb
Arsenic	75-2	0.29	0.21	0.23	0.24	15.27	ppb
Barium	135-1	1.36	1.36	1.39	1.37	1.21	ppb
Barium	137-1	1.40	1.35	1.44	1.40	3.16	ppb
Beryllium	9-1	0.31	0.29	0.31	0.30	3.84	ppb
Bismuth	209-1				91		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	13.39	12.81	13.37	13.19	2.49	ppb
Cadmium	106-1	-1.23	-1.91	-1.76	-1.63		ppb
Cadmium	111-1	0.41	0.24	0.38	0.34	26.13	ppb
Calcium	43-1	98040.00	97409.46	96567.83	97339.10	0.76	ppb
Calcium	44-1	97953.75	99736.47	100760.90	99483.71	1.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.48	19.88	19.25	19.54	1.63	ppb
Cobalt	59-2	1.18	1.22	1.18	1.19	1.92	ppb
Copper	63-2	7.33	7.55	7.68	7.52	2.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				93		%
Indium	115-1				91		%
Indium	115-2				88		%
Iron	54-2	99872.93	99535.51	101191.15	100199.86	0.87	ppb
Iron	56-2	100588.25	101672.36	100742.60	101001.07	0.58	ppb
Iron	57-2	97861.66	100253.23	99396.72	99170.54	1.22	ppb
Krypton	83-1						cps
Lead	206-1	4.59	4.48	4.59	4.55	1.32	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.10	4.10	4.29	4.16	2.67	ppb
Lead	208-1	4.23	4.25	4.37	4.28	1.72	ppb
Lithium	6-1				89		%
Magnesium	24-2	96115.86	94654.55	92582.16	94450.86	1.88	ppb
Manganese	55-2	8.96	8.69	8.94	8.86	1.72	ppb
Molybdenum	94-1	1617.43	1548.90	1590.34	1585.55	2.18	ppb
Molybdenum	95-1	2014.77	1943.14	2010.64	1989.52	2.02	ppb
Molybdenum	96-1	1946.59	1916.36	1892.82	1918.59	1.41	ppb
Molybdenum	97-1	1984.19	1947.32	2001.61	1977.71	1.40	ppb
Molybdenum	98-1	1962.28	1946.61	2003.76	1970.88	1.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.61	5.60	5.69	5.63	0.81	ppb
Phosphorus	31-2	103885.13	103032.92	102195.67	103037.90	0.82	ppb
Potassium	39-2	98939.80	98090.02	99681.00	98903.60	0.80	ppb
Rhodium	103-1				88		%
Rhodium	103-2				85		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	0.00	-0.29	-0.21	-0.17		ppb
Selenium	77-2	-0.25	-0.25	0.59	0.03	1710.72	ppb
Selenium	78-2	-0.58	-1.32	-0.58	-0.83		ppb
Silicon	28-1	2.74	2.81	2.89	2.81	2.65	ppb
Silver	107-1	0.05	0.05	0.05	0.05	3.50	ppb
Silver	109-1	0.07	0.05	0.05	0.06	19.92	ppb
Sodium	23-2	100081.22	100031.51	100498.20	100203.64	0.26	ppb
Strontium	86-1	33.29	32.58	33.18	33.02	1.15	ppb
Strontium	88-1	33.54	32.78	33.64	33.32	1.40	ppb
Sulfur	34-1	99401.32	98999.17	99896.74	99432.41	0.45	ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.09	0.13	0.16	0.12	26.22	ppb
Thallium	205-1	0.09	0.13	0.15	0.12	27.65	ppb
Tin	118-1	0.12	0.11	0.09	0.11	11.94	ppb
Titanium	47-1	1990.28	2063.15	2076.13	2043.18	2.26	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	11.53	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.19	0.13	0.17	0.16	20.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				90		%
Zinc	66-2	9.85	10.04	10.60	10.16	3.85	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	8.45	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	4.51	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93471.61	81399.51	87265.82	87378.98	6.91	ppb
Antimony	121-1	20.50	20.57	20.20	20.42	0.97	ppb
Arsenic	75-2	20.53	16.85	19.60	18.99	10.08	ppb
Barium	135-1	21.21	20.78	20.87	20.95	1.07	ppb
Barium	137-1	21.79	21.56	21.38	21.58	0.94	ppb
Beryllium	9-1	21.64	21.93	21.76	21.78	0.66	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	28.92	27.33	28.10	28.12	2.84	ppb
Cadmium	106-1	13.49	12.56	11.97	12.67	6.05	ppb
Cadmium	111-1	19.68	19.28	19.22	19.39	1.28	ppb
Calcium	43-1	98307.03	97927.99	96560.32	97598.45	0.94	ppb
Calcium	44-1	99934.86	97744.67	93104.01	96927.84	3.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.18	34.40	37.36	36.98	6.52	ppb
Cobalt	59-2	21.62	18.65	20.03	20.10	7.40	ppb
Copper	63-2	27.53	24.26	26.53	26.11	6.42	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				97		%
Indium	115-1				92		%
Indium	115-2				92		%
Iron	54-2	101720.71	89768.93	97323.63	96271.09	6.28	ppb
Iron	56-2	100271.90	88437.44	97036.01	95248.45	6.42	ppb
Iron	57-2	99193.09	89302.73	95414.52	94636.78	5.27	ppb
Krypton	83-1						cps
Lead	206-1	24.86	25.14	24.84	24.95	0.67	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.16	24.54	24.63	24.44	1.02	ppb
Lead	208-1	24.20	24.65	24.39	24.41	0.93	ppb
Lithium	6-1				88		%
Magnesium	24-2	93994.56	83842.44	91515.77	89784.26	5.90	ppb
Manganese	55-2	27.71	24.86	26.10	26.22	5.47	ppb
Molybdenum	94-1	1544.79	1576.70	1578.71	1566.73	1.21	ppb
Molybdenum	95-1	1903.37	1931.81	1963.86	1933.01	1.57	ppb
Molybdenum	96-1	1863.03	1825.46	1912.87	1867.12	2.35	ppb
Molybdenum	97-1	1926.45	1914.58	1972.68	1937.90	1.58	ppb
Molybdenum	98-1	1937.87	1948.82	2015.22	1967.31	2.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.82	23.03	24.63	24.49	5.73	ppb
Phosphorus	31-2	104767.66	91325.63	100110.48	98734.59	6.91	ppb
Potassium	39-2	98241.75	89125.42	95587.81	94318.32	4.97	ppb
Rhodium	103-1				88		%
Rhodium	103-2				88		%
Scandium	45-1				91		%
Scandium	45-2				94		%
Selenium	82-1	20.18	19.52	20.55	20.08	2.60	ppb
Selenium	77-2	9.13	21.82	21.11	17.35	41.09	ppb
Selenium	78-2	22.25	13.79	18.72	18.25	23.29	ppb
Silicon	28-1	2.89	2.59	2.65	2.71	5.74	ppb
Silver	107-1	18.49	18.19	18.17	18.29	0.98	ppb
Silver	109-1	18.81	18.50	18.49	18.60	0.97	ppb
Sodium	23-2	98712.08	89591.34	94400.59	94234.67	4.84	ppb
Strontium	86-1	32.56	32.72	33.53	32.94	1.59	ppb
Strontium	88-1	32.63	32.78	33.35	32.92	1.15	ppb
Sulfur	34-1	100032.65	97682.44	96971.06	98228.72	1.63	ppb
Terbium	159-1				95		%
Terbium	159-2				98		%
Thallium	203-1	19.23	19.67	19.80	19.56	1.51	ppb
Thallium	205-1	19.41	19.92	19.59	19.64	1.32	ppb
Tin	118-1	0.08	0.09	0.07	0.08	14.85	ppb
Titanium	47-1	2037.00	1990.19	1953.36	1993.52	2.10	ppb
Uranium	238-1	0.02	0.02	0.03	0.02	7.28	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	20.30	17.47	19.17	18.98	7.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				95		%
Zinc	66-2	29.92	26.13	28.68	28.24	6.84	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	15.76	ppb
Zirconium	91-1	0.03	0.05	0.03	0.04	21.07	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50756.78	50496.30	50965.24	50739.44	0.46	ppb
Antimony	121-1	507.99	504.76	487.93	500.23	2.15	ppb
Arsenic	75-2	499.86	508.49	507.23	505.19	0.92	ppb
Barium	135-1	2585.92	2597.53	2429.47	2537.64	3.70	ppb
Barium	137-1	2540.47	2494.68	2540.00	2525.05	1.04	ppb
Beryllium	9-1	508.20	519.57	531.04	519.60	2.20	ppb
Bismuth	209-1				88		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	500.48	495.94	493.76	496.72	0.69	ppb
Cadmium	106-1	495.98	493.25	491.06	493.43	0.50	ppb
Cadmium	111-1	491.48	472.96	483.62	482.69	1.93	ppb
Calcium	43-1	235948.93	238345.56	234419.56	236238.02	0.84	ppb
Calcium	44-1	233898.52	239226.89	237571.20	236898.87	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.17	486.75	493.21	492.04	0.98	ppb
Cobalt	59-2	508.15	492.05	503.61	501.27	1.66	ppb
Copper	63-2	5114.11	5072.42	5045.37	5077.30	0.68	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				96		%
Holmium	165-2				93		%
Indium	115-1				88		%
Indium	115-2				83		%
Iron	54-2	128827.97	126199.63	131285.21	128770.94	1.98	ppb
Iron	56-2	129658.90	131976.97	129558.67	130398.18	1.05	ppb
Iron	57-2	128466.23	127804.04	129432.25	128567.50	0.64	ppb
Krypton	83-1						cps
Lead	206-1	2555.63	2671.86	2553.77	2593.75	2.61	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2619.87	2647.57	2602.83	2623.42	0.86	ppb
Lead	208-1	2552.18	2621.07	2586.20	2586.48	1.33	ppb
Lithium	6-1				83		%
Magnesium	24-2	248174.86	239095.00	241731.15	243000.34	1.92	ppb
Manganese	55-2	5113.42	5026.66	5063.59	5067.89	0.86	ppb
Molybdenum	94-1	4964.73	5155.00	5032.37	5050.70	1.91	ppb
Molybdenum	95-1	5057.23	5070.58	5064.75	5064.19	0.13	ppb
Molybdenum	96-1	5004.52	4953.11	4958.48	4972.04	0.57	ppb
Molybdenum	97-1	4998.80	5057.98	5069.58	5042.12	0.75	ppb
Molybdenum	98-1	5060.96	5118.42	5079.65	5086.34	0.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	496.01	484.46	496.33	492.27	1.37	ppb
Phosphorus	31-2	10251.84	9767.56	10172.48	10063.96	2.58	ppb
Potassium	39-2	131308.81	126567.44	128738.42	128871.56	1.84	ppb
Rhodium	103-1				82		%
Rhodium	103-2				82		%
Scandium	45-1				88		%
Scandium	45-2				88		%
Selenium	82-1	495.84	506.02	495.67	499.18	1.19	ppb
Selenium	77-2	506.93	551.22	496.68	518.28	5.59	ppb
Selenium	78-2	500.21	501.85	516.30	506.12	1.75	ppb
Silicon	28-1	488.84	504.10	503.90	498.95	1.75	ppb
Silver	107-1	485.90	483.90	472.73	480.84	1.48	ppb
Silver	109-1	491.85	486.05	479.81	485.90	1.24	ppb
Sodium	23-2	234149.37	228776.87	237603.20	233509.81	1.90	ppb
Strontium	86-1	505.86	515.86	508.47	510.06	1.02	ppb
Strontium	88-1	497.65	498.37	509.09	501.70	1.28	ppb
Sulfur	34-1	10295.19	10244.55	9947.63	10162.46	1.85	ppb
Terbium	159-1				94		%
Terbium	159-2				92		%
Thallium	203-1	525.09	536.63	524.76	528.83	1.28	ppb
Thallium	205-1	504.67	524.73	503.94	511.11	2.31	ppb
Tin	118-1	518.03	502.20	510.35	510.19	1.55	ppb
Titanium	47-1	4975.34	5092.53	4939.52	5002.47	1.60	ppb
Uranium	238-1	517.97	533.76	522.37	524.70	1.55	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	510.57	503.63	510.51	508.24	0.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				88		%
Zinc	66-2	5236.47	5268.01	5324.40	5276.29	0.84	ppb
Zirconium	90-1	487.32	525.15	500.98	504.48	3.80	ppb
Zirconium	91-1	509.64	515.03	515.89	513.52	0.66	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.65	0.28	-0.15	0.26	152.84	ppb
Antimony	121-1	0.13	0.11	0.11	0.12	10.27	ppb
Arsenic	75-2	0.02	0.01	-0.01	0.01	302.17	ppb
Barium	135-1	0.01	0.00	0.01	0.01	49.03	ppb
Barium	137-1	0.03	0.02	0.00	0.02	79.33	ppb
Beryllium	9-1	0.08	0.07	0.07	0.07	9.19	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.06	0.02	0.04	48.37	ppb
Cadmium	106-1	-2.46	-1.48	-1.33	-1.76		ppb
Cadmium	111-1	-0.18	-0.10	-0.10	-0.12		ppb
Calcium	43-1	-7.06	-11.04	-10.17	-9.42		ppb
Calcium	44-1	-8.87	-9.88	-10.89	-9.88		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.07	-0.05	-0.09	-0.07		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	10.23	ppb
Copper	63-2	-0.08	-0.10	-0.10	-0.09		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				93		%
Iron	54-2	0.36	0.00	0.29	0.21	89.87	ppb
Iron	56-2	0.24	0.02	-0.08	0.06	289.93	ppb
Iron	57-2	-0.73	-1.37	-0.26	-0.79		ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.09	0.09	0.10	18.80	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.11	0.10	0.11	15.51	ppb
Lead	208-1	0.12	0.10	0.09	0.11	14.20	ppb
Lithium	6-1				91		%
Magnesium	24-2	1.71	0.48	0.16	0.79	103.90	ppb
Manganese	55-2	-0.10	0.02	-0.06	-0.05		ppb
Molybdenum	94-1	0.20	0.16	0.13	0.16	20.28	ppb
Molybdenum	95-1	0.14	0.13	0.11	0.13	11.74	ppb
Molybdenum	96-1	0.15	0.13	0.12	0.14	12.72	ppb
Molybdenum	97-1	0.14	0.13	0.11	0.13	13.77	ppb
Molybdenum	98-1	0.15	0.12	0.10	0.12	21.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.07	-0.06	-0.06		ppb
Phosphorus	31-2	-140.42	-147.00	-134.98	-140.80		ppb
Potassium	39-2	19.44	20.17	17.53	19.05	7.16	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	0.08	0.08	0.07	0.08	10.51	ppb
Selenium	77-2	-0.25	-0.25	0.57	0.02	2293.97	ppb
Selenium	78-2	-1.09	-0.35	0.60	-0.28		ppb
Silicon	28-1	-0.31	-0.42	0.06	-0.22		ppb
Silver	107-1	0.04	0.04	0.03	0.03	11.81	ppb
Silver	109-1	0.04	0.04	0.03	0.04	12.26	ppb
Sodium	23-2	37.92	38.28	39.67	38.62	2.40	ppb
Strontium	86-1	-0.01	0.00	0.01	0.00	490.77	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	260.67	ppb
Sulfur	34-1	290.95	227.49	94.14	204.19	49.20	ppb
Terbium	159-1				97		%
Terbium	159-2				97		%
Thallium	203-1	0.05	0.04	0.05	0.05	13.65	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	11.30	ppb
Tin	118-1	-0.08	-0.09	-0.08	-0.08		ppb
Titanium	47-1	0.16	0.13	0.13	0.14	11.43	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	36.76	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.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				97		%
Yttrium	89-2				93		%
Zinc	66-2	-0.41	-0.53	-0.52	-0.49		ppb
Zirconium	90-1	0.05	0.04	0.03	0.04	16.36	ppb
Zirconium	91-1	0.04	0.04	0.05	0.04	13.80	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.94	19.20	18.43	18.19	6.32	ppb
Antimony	121-1	1.77	1.79	1.82	1.79	1.20	ppb
Arsenic	75-2	1.10	0.84	0.79	0.91	18.31	ppb
Barium	135-1	8.65	8.95	9.03	8.88	2.27	ppb
Barium	137-1	8.85	8.99	9.12	8.99	1.53	ppb
Beryllium	9-1	1.06	1.02	1.05	1.04	2.14	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.91	0.84	0.91	0.89	4.50	ppb
Cadmium	106-1	-1.69	-0.69	-0.78	-1.05		ppb
Cadmium	111-1	0.69	0.73	0.70	0.70	2.88	ppb
Calcium	43-1	435.46	458.74	455.36	449.85	2.80	ppb
Calcium	44-1	434.81	441.80	448.89	441.84	1.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.78	1.76	1.76	1.77	0.78	ppb
Cobalt	59-2	0.94	0.99	1.00	0.98	3.07	ppb
Copper	63-2	1.82	1.76	1.83	1.80	2.23	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				96		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	54-2	48.13	47.36	48.06	47.85	0.89	ppb
Iron	56-2	46.62	46.24	46.10	46.32	0.58	ppb
Iron	57-2	47.33	45.62	42.53	45.16	5.38	ppb
Krypton	83-1						cps
Lead	206-1	0.78	0.73	0.75	0.75	3.39	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.80	0.79	0.76	0.78	2.83	ppb
Lead	208-1	0.78	0.76	0.76	0.77	1.35	ppb
Lithium	6-1				93		%
Magnesium	24-2	490.83	482.68	478.48	483.99	1.30	ppb
Manganese	55-2	0.89	0.87	0.84	0.87	2.57	ppb
Molybdenum	94-1	5.51	5.36	5.47	5.45	1.41	ppb
Molybdenum	95-1	4.46	4.47	4.50	4.48	0.42	ppb
Molybdenum	96-1	4.53	4.52	4.49	4.51	0.52	ppb
Molybdenum	97-1	4.54	4.44	4.60	4.53	1.74	ppb
Molybdenum	98-1	4.50	4.44	4.44	4.46	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.86	0.86	0.80	0.84	3.74	ppb
Phosphorus	31-2	108.07	95.32	88.62	97.34	10.15	ppb
Potassium	39-2	474.30	466.92	467.59	469.60	0.87	ppb
Rhodium	103-1				93		%
Rhodium	103-2				93		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	4.36	4.63	4.73	4.57	4.22	ppb
Selenium	77-2	3.07	4.71	3.89	3.89	21.02	ppb
Selenium	78-2	2.83	4.26	4.27	3.79	21.89	ppb
Silicon	28-1	0.23	0.02	0.11	0.12	86.65	ppb
Silver	107-1	0.95	0.98	0.99	0.97	1.98	ppb
Silver	109-1	0.93	0.98	1.00	0.97	3.80	ppb
Sodium	23-2	495.11	488.92	491.05	491.69	0.64	ppb
Strontium	86-1	0.91	0.85	0.91	0.89	3.85	ppb
Strontium	88-1	0.90	0.88	0.91	0.90	1.61	ppb
Sulfur	34-1	610.65	645.65	780.23	678.84	13.19	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	0.90	0.89	0.90	0.90	0.56	ppb
Thallium	205-1	0.92	0.91	0.90	0.91	0.63	ppb
Tin	118-1	4.41	4.42	4.47	4.43	0.70	ppb
Titanium	47-1	4.63	4.73	4.97	4.78	3.65	ppb
Uranium	238-1	0.85	0.84	0.86	0.85	1.25	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.67	4.56	4.58	4.60	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				92		%
Zinc	66-2	4.43	4.00	4.48	4.30	6.21	ppb
Zirconium	90-1	0.95	0.95	0.97	0.96	1.31	ppb
Zirconium	91-1	1.00	1.00	1.00	1.00	0.27	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17047.77	17279.86	16656.24	16994.62	1.85	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	4.96	ppb
Arsenic	75-2	4.65	5.19	4.84	4.89	5.60	ppb
Barium	135-1	22.30	22.69	22.20	22.40	1.14	ppb
Barium	137-1	22.88	23.07	22.73	22.89	0.74	ppb
Beryllium	9-1	2.66	2.79	2.68	2.71	2.50	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.91	1.78	1.95	1.88	4.75	ppb
Cadmium	106-1	1.38	1.44	1.27	1.36	6.44	ppb
Cadmium	111-1	1.94	2.00	1.98	1.97	1.40	ppb
Calcium	43-1	40771.50	39456.41	41388.68	40538.86	2.43	ppb
Calcium	44-1	39165.66	40195.18	41159.43	40173.42	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.49	8.42	8.22	8.38	1.70	ppb
Cobalt	59-2	54.91	55.84	54.01	54.92	1.67	ppb
Copper	63-2	59.59	60.53	58.48	59.53	1.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				95		%
Indium	115-1				96		%
Indium	115-2				90		%
Iron	54-2	3298.99	3341.53	3222.44	3287.66	1.84	ppb
Iron	56-2	3295.83	3317.26	3222.92	3278.67	1.51	ppb
Iron	57-2	3249.62	3272.25	3157.93	3226.60	1.88	ppb
Krypton	83-1						cps
Lead	206-1	7.07	7.45	7.47	7.33	3.11	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.98	7.05	7.24	7.09	1.90	ppb
Lead	208-1	6.92	7.16	7.29	7.12	2.64	ppb
Lithium	6-1				93		%
Magnesium	24-2	7351.92	7533.21	7331.46	7405.53	1.50	ppb
Manganese	55-2	3806.72	3822.43	3659.47	3762.87	2.39	ppb
Molybdenum	94-1	0.23	0.27	0.30	0.26	13.42	ppb
Molybdenum	95-1	0.05	0.05	0.06	0.06	4.36	ppb
Molybdenum	96-1	0.06	0.05	0.06	0.05	14.74	ppb
Molybdenum	97-1	0.02	0.02	0.03	0.03	9.60	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	8.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	46.50	47.28	46.31	46.70	1.10	ppb
Phosphorus	31-2	684.95	623.87	609.60	639.47	6.26	ppb
Potassium	39-2	8519.89	8512.90	8407.11	8479.97	0.75	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				94		%
Scandium	45-2				89		%
Selenium	82-1	1.04	0.85	0.86	0.91	11.63	ppb
Selenium	77-2	42.09	36.27	41.37	39.91	7.95	ppb
Selenium	78-2	6.59	7.02	8.09	7.23	10.71	ppb
Silicon	28-1	758.43	739.79	764.21	754.14	1.69	ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.05	ppb
Silver	109-1	0.02	0.02	0.02	0.02	6.75	ppb
Sodium	23-2	2783.37	2791.66	2722.68	2765.90	1.36	ppb
Strontium	86-1	111.41	110.96	113.07	111.81	1.00	ppb
Strontium	88-1	118.00	112.71	116.29	115.67	2.34	ppb
Sulfur	34-1	61072.87	59754.68	60009.10	60278.88	1.16	ppb
Terbium	159-1				98		%
Terbium	159-2				94		%
Thallium	203-1	0.16	0.17	0.18	0.17	4.17	ppb
Thallium	205-1	0.17	0.17	0.16	0.17	3.58	ppb
Tin	118-1	-0.03	-0.04	-0.04	-0.03		ppb
Titanium	47-1	1.50	1.43	1.40	1.44	3.62	ppb
Uranium	238-1	1.01	1.04	1.04	1.03	1.80	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	13.92	13.98	13.52	13.81	1.80	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				104		%
Zinc	66-2	363.03	369.22	352.39	361.55	2.36	ppb
Zirconium	90-1	0.12	0.13	0.12	0.12	3.00	ppb
Zirconium	91-1	0.13	0.13	0.12	0.13	3.63	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16906.06	16568.15	16538.64	16670.95	1.22	ppb
Antimony	121-1	0.02	0.03	0.03	0.03	5.54	ppb
Arsenic	75-2	4.26	4.74	4.70	4.57	5.80	ppb
Barium	135-1	21.73	22.64	22.74	22.37	2.50	ppb
Barium	137-1	22.34	22.84	23.21	22.80	1.91	ppb
Beryllium	9-1	2.61	2.67	2.62	2.63	1.21	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.50	1.73	1.93	1.72	12.47	ppb
Cadmium	106-1	1.07	1.59	1.15	1.27	22.04	ppb
Cadmium	111-1	1.90	1.97	1.94	1.94	1.85	ppb
Calcium	43-1	40853.71	40440.86	42221.10	41171.89	2.26	ppb
Calcium	44-1	40575.25	40423.89	40195.55	40398.23	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.49	8.46	8.70	8.55	1.55	ppb
Cobalt	59-2	54.47	53.38	53.77	53.87	1.02	ppb
Copper	63-2	58.03	58.20	58.17	58.13	0.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				90		%
Iron	54-2	3231.48	3187.20	3212.28	3210.32	0.69	ppb
Iron	56-2	3239.54	3185.31	3246.87	3223.91	1.04	ppb
Iron	57-2	3182.71	3136.83	3147.94	3155.83	0.76	ppb
Krypton	83-1						cps
Lead	206-1	7.01	7.02	7.15	7.06	1.13	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	7.04	6.82	6.90	6.92	1.66	ppb
Lead	208-1	6.95	6.90	7.06	6.97	1.22	ppb
Lithium	6-1				92		%
Magnesium	24-2	7186.73	7119.86	7235.38	7180.66	0.81	ppb
Manganese	55-2	3701.48	3626.87	3685.02	3671.12	1.07	ppb
Molybdenum	94-1	0.20	0.24	0.22	0.22	8.00	ppb
Molybdenum	95-1	0.05	0.06	0.06	0.06	13.57	ppb
Molybdenum	96-1	0.06	0.06	0.06	0.06	3.66	ppb
Molybdenum	97-1	0.03	0.02	0.03	0.03	18.47	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.02	14.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	45.97	46.34	46.57	46.29	0.65	ppb
Phosphorus	31-2	590.72	574.14	615.91	593.59	3.54	ppb
Potassium	39-2	8450.60	8286.33	8426.74	8387.89	1.06	ppb
Rhodium	103-1				93		%
Rhodium	103-2				88		%
Scandium	45-1				91		%
Scandium	45-2				89		%
Selenium	82-1	0.72	0.87	0.98	0.86	15.31	ppb
Selenium	77-2	40.13	38.69	52.38	43.73	17.21	ppb
Selenium	78-2	7.93	5.77	7.67	7.12	16.51	ppb
Silicon	28-1	771.90	761.25	759.51	764.22	0.88	ppb
Silver	107-1	0.01	0.01	0.02	0.01	13.92	ppb
Silver	109-1	0.01	0.02	0.01	0.01	21.49	ppb
Sodium	23-2	2756.87	2677.01	2741.00	2724.96	1.55	ppb
Strontium	86-1	111.75	112.29	112.52	112.19	0.35	ppb
Strontium	88-1	117.18	114.90	118.95	117.01	1.74	ppb
Sulfur	34-1	60672.30	59762.45	60075.21	60169.99	0.77	ppb
Terbium	159-1				97		%
Terbium	159-2				93		%
Thallium	203-1	0.16	0.16	0.15	0.16	2.97	ppb
Thallium	205-1	0.16	0.16	0.16	0.16	2.40	ppb
Tin	118-1	-0.07	-0.07	-0.08	-0.07		ppb
Titanium	47-1	1.48	1.47	1.35	1.43	4.88	ppb
Uranium	238-1	0.99	1.02	1.03	1.01	1.87	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	13.82	13.44	13.74	13.66	1.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				104		%
Zinc	66-2	352.41	345.80	354.71	350.97	1.32	ppb
Zirconium	90-1	0.12	0.13	0.12	0.12	2.86	ppb
Zirconium	91-1	0.14	0.14	0.13	0.14	6.50	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3518.65	3567.88	3424.51	3503.68	2.08	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	9.26	ppb
Arsenic	75-2	1.08	1.00	1.28	1.12	12.87	ppb
Barium	135-1	4.68	4.76	4.77	4.74	1.04	ppb
Barium	137-1	4.72	4.88	4.73	4.78	1.91	ppb
Beryllium	9-1	0.58	0.58	0.58	0.58	0.41	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.42	0.44	0.48	18.58	ppb
Cadmium	106-1	-1.69	-1.43	-1.53	-1.55		ppb
Cadmium	111-1	0.24	0.33	0.27	0.28	16.53	ppb
Calcium	43-1	8259.93	8712.18	8674.26	8548.79	2.93	ppb
Calcium	44-1	8357.25	8660.27	8704.78	8574.10	2.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.67	1.63	1.71	1.67	2.49	ppb
Cobalt	59-2	11.30	11.25	11.23	11.26	0.31	ppb
Copper	63-2	12.17	12.06	12.16	12.13	0.51	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				93		%
Indium	115-1				97		%
Indium	115-2				91		%
Iron	54-2	683.25	671.73	666.76	673.91	1.25	ppb
Iron	56-2	692.12	673.29	674.14	679.85	1.56	ppb
Iron	57-2	654.22	665.99	662.76	660.99	0.92	ppb
Krypton	83-1						cps
Lead	206-1	1.54	1.50	1.50	1.51	1.75	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.44	1.51	1.44	1.46	2.83	ppb
Lead	208-1	1.47	1.48	1.46	1.47	0.62	ppb
Lithium	6-1				91		%
Magnesium	24-2	1550.89	1577.10	1526.22	1551.40	1.64	ppb
Manganese	55-2	762.16	754.62	755.79	757.52	0.54	ppb
Molybdenum	94-1	0.08	0.05	0.05	0.06	26.64	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	20.79	ppb
Molybdenum	96-1	0.01	0.01	0.02	0.01	48.82	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	81.45	ppb
Molybdenum	98-1	0.00	0.01	0.01	0.01	23.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.80	9.70	9.35	9.62	2.48	ppb
Phosphorus	31-2	42.78	6.08	41.45	30.10	69.15	ppb
Potassium	39-2	1793.42	1782.93	1747.53	1774.63	1.36	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				91		%
Scandium	45-2				91		%
Selenium	82-1	-0.08	0.29	0.14	0.12	160.30	ppb
Selenium	77-2	14.39	11.16	6.28	10.61	38.50	ppb
Selenium	78-2	3.93	2.03	2.03	2.66	41.29	ppb
Silicon	28-1	155.81	160.82	164.47	160.36	2.71	ppb
Silver	107-1	0.00	0.01	0.00	0.00	42.08	ppb
Silver	109-1	0.00	0.00	0.00	0.00	2.09	ppb
Sodium	23-2	595.76	604.64	587.73	596.04	1.42	ppb
Strontium	86-1	26.05	26.44	26.87	26.45	1.54	ppb
Strontium	88-1	26.17	26.58	27.16	26.63	1.87	ppb
Sulfur	34-1	11581.61	12549.67	12380.55	12170.61	4.25	ppb
Terbium	159-1				96		%
Terbium	159-2				93		%
Thallium	203-1	0.04	0.03	0.04	0.04	7.07	ppb
Thallium	205-1	0.04	0.04	0.03	0.04	9.57	ppb
Tin	118-1	-0.09	-0.08	-0.11	-0.09		ppb
Titanium	47-1	0.29	0.34	0.33	0.32	8.91	ppb
Uranium	238-1	0.21	0.21	0.21	0.21	1.14	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.84	2.94	2.84	2.88	1.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				94		%
Zinc	66-2	72.51	75.25	73.19	73.65	1.94	ppb
Zirconium	90-1	0.03	0.04	0.04	0.04	14.34	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	8.36	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17300.68	17341.39	17166.69	17269.59	0.53	ppb
Antimony	121-1	92.95	93.71	95.80	94.16	1.57	ppb
Arsenic	75-2	4.02	4.38	4.38	4.26	4.83	ppb
Barium	135-1	445.88	449.50	457.00	450.80	1.26	ppb
Barium	137-1	451.16	462.01	486.15	466.44	3.84	ppb
Beryllium	9-1	103.72	102.51	103.15	103.13	0.59	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	92.99	93.46	96.63	94.36	2.10	ppb
Cadmium	106-1	96.39	99.54	100.61	98.85	2.22	ppb
Cadmium	111-1	96.10	97.17	98.54	97.27	1.26	ppb
Calcium	43-1	46598.36	47310.32	47678.76	47195.81	1.16	ppb
Calcium	44-1	47303.27	46661.72	46876.34	46947.11	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.94	99.50	99.69	99.71	0.22	ppb
Cobalt	59-2	146.32	146.05	146.81	146.39	0.26	ppb
Copper	63-2	1078.05	1076.79	1080.45	1078.43	0.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	7450.32	7445.09	7382.17	7425.86	0.51	ppb
Iron	56-2	7336.79	7236.53	7341.79	7305.04	0.81	ppb
Iron	57-2	7185.20	7244.69	7202.12	7210.67	0.43	ppb
Krypton	83-1						cps
Lead	206-1	488.04	502.95	485.11	492.03	1.94	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	520.70	525.34	495.46	513.83	3.13	ppb
Lead	208-1	500.04	504.76	481.75	495.51	2.45	ppb
Lithium	6-1				91		%
Magnesium	24-2	16698.44	17112.57	16721.14	16844.05	1.38	ppb
Manganese	55-2	4406.42	4378.92	4382.69	4389.34	0.34	ppb
Molybdenum	94-1	406.83	404.82	395.88	402.51	1.45	ppb
Molybdenum	95-1	313.43	306.17	305.77	308.46	1.40	ppb
Molybdenum	96-1	316.41	305.96	303.21	308.53	2.26	ppb
Molybdenum	97-1	310.10	302.45	293.06	301.87	2.83	ppb
Molybdenum	98-1	311.20	297.86	299.40	302.82	2.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	141.32	142.22	141.92	141.82	0.32	ppb
Phosphorus	31-2	589.46	619.36	520.05	576.29	8.84	ppb
Potassium	39-2	12106.75	12048.97	12151.76	12102.49	0.43	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				91		%
Selenium	82-1	88.28	84.82	85.23	86.11	2.19	ppb
Selenium	77-2	115.93	117.69	122.66	118.76	2.94	ppb
Selenium	78-2	97.03	89.26	91.47	92.59	4.32	ppb
Silicon	28-1	695.43	687.44	694.04	692.30	0.62	ppb
Silver	107-1	15.84	16.13	16.73	16.24	2.81	ppb
Silver	109-1	16.02	16.28	16.54	16.28	1.62	ppb
Sodium	23-2	12303.30	12512.28	12281.77	12365.78	1.03	ppb
Strontium	86-1	203.66	200.83	200.57	201.69	0.85	ppb
Strontium	88-1	209.31	208.64	208.03	208.66	0.31	ppb
Sulfur	34-1	56161.55	53908.81	56109.99	55393.45	2.32	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	91.32	94.33	90.94	92.20	2.02	ppb
Thallium	205-1	96.33	99.20	98.16	97.90	1.48	ppb
Tin	118-1	83.45	84.73	86.19	84.79	1.61	ppb
Titanium	47-1	1.47	1.55	1.58	1.54	3.80	ppb
Uranium	238-1	96.40	95.86	93.66	95.30	1.52	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.73	110.95	110.42	110.70	0.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	1318.42	1319.10	1318.35	1318.62	0.03	ppb
Zirconium	90-1	86.56	82.24	82.28	83.69	2.97	ppb
Zirconium	91-1	81.49	80.37	79.53	80.46	1.22	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17034.14	16863.77	17194.73	17030.88	0.97	ppb
Antimony	121-1	92.12	92.84	92.68	92.55	0.41	ppb
Arsenic	75-2	4.19	3.90	4.17	4.09	3.98	ppb
Barium	135-1	442.41	439.48	440.23	440.71	0.35	ppb
Barium	137-1	469.38	464.96	455.50	463.28	1.53	ppb
Beryllium	9-1	102.83	101.68	101.42	101.98	0.74	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	93.19	91.94	93.83	92.99	1.03	ppb
Cadmium	106-1	97.45	97.77	95.51	96.91	1.26	ppb
Cadmium	111-1	96.74	95.18	94.20	95.37	1.35	ppb
Calcium	43-1	45833.77	46859.66	47320.74	46671.39	1.63	ppb
Calcium	44-1	46282.63	46214.59	47016.92	46504.71	0.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.52	97.57	99.28	98.79	1.08	ppb
Cobalt	59-2	145.48	143.60	145.45	144.84	0.74	ppb
Copper	63-2	1082.42	1041.57	1057.86	1060.61	1.94	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				96		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	7402.28	7245.72	7293.45	7313.82	1.10	ppb
Iron	56-2	7319.89	7282.10	7424.32	7342.10	1.00	ppb
Iron	57-2	7169.06	7116.59	7195.28	7160.31	0.56	ppb
Krypton	83-1						cps
Lead	206-1	489.55	482.18	497.91	489.88	1.61	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	494.31	497.02	497.09	496.14	0.32	ppb
Lead	208-1	493.12	487.96	486.50	489.20	0.71	ppb
Lithium	6-1				91		%
Magnesium	24-2	16928.31	16059.17	16729.34	16572.27	2.75	ppb
Manganese	55-2	4365.50	4381.79	4368.44	4371.91	0.20	ppb
Molybdenum	94-1	393.79	379.40	400.40	391.20	2.75	ppb
Molybdenum	95-1	293.23	300.80	299.40	297.81	1.35	ppb
Molybdenum	96-1	300.79	313.19	313.76	309.25	2.37	ppb
Molybdenum	97-1	301.47	295.86	306.18	301.17	1.72	ppb
Molybdenum	98-1	299.13	298.52	306.52	301.39	1.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	140.73	137.81	140.99	139.84	1.26	ppb
Phosphorus	31-2	483.72	528.99	547.49	520.07	6.31	ppb
Potassium	39-2	12129.69	12040.99	12001.53	12057.40	0.54	ppb
Rhodium	103-1				92		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				92		%
Selenium	82-1	85.55	86.14	87.33	86.34	1.05	ppb
Selenium	77-2	131.50	117.09	95.04	114.54	16.03	ppb
Selenium	78-2	97.39	92.13	91.39	93.63	3.50	ppb
Silicon	28-1	682.72	693.62	704.94	693.76	1.60	ppb
Silver	107-1	15.81	16.00	16.04	15.95	0.75	ppb
Silver	109-1	15.89	16.02	16.08	15.99	0.61	ppb
Sodium	23-2	12330.16	12084.56	12597.70	12337.48	2.08	ppb
Strontium	86-1	196.96	198.01	202.87	199.28	1.58	ppb
Strontium	88-1	209.67	201.07	210.67	207.14	2.55	ppb
Sulfur	34-1	54687.49	56130.51	54684.27	55167.42	1.51	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	89.97	89.16	92.34	90.49	1.83	ppb
Thallium	205-1	93.58	94.02	97.52	95.04	2.27	ppb
Tin	118-1	84.65	83.51	83.20	83.79	0.91	ppb
Titanium	47-1	1.52	1.57	1.53	1.54	1.67	ppb
Uranium	238-1	94.86	95.88	93.00	94.58	1.54	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.76	108.90	110.57	110.08	0.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	1308.96	1275.75	1306.89	1297.20	1.43	ppb
Zirconium	90-1	80.65	83.04	82.90	82.20	1.63	ppb
Zirconium	91-1	78.21	78.36	79.64	78.74	1.00	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17043.86	17436.53	17238.25	17239.55	1.14	ppb
Antimony	121-1	93.29	95.84	95.67	94.93	1.50	ppb
Arsenic	75-2	4.16	4.40	3.93	4.16	5.73	ppb
Barium	135-1	449.63	453.69	449.57	450.96	0.52	ppb
Barium	137-1	469.94	473.07	482.13	475.05	1.33	ppb
Beryllium	9-1	105.08	102.44	103.73	103.75	1.27	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	95.35	96.14	97.85	96.45	1.32	ppb
Cadmium	106-1	99.24	101.66	99.34	100.08	1.37	ppb
Cadmium	111-1	97.49	98.75	97.41	97.89	0.77	ppb
Calcium	43-1	48023.35	45944.79	46734.56	46900.90	2.24	ppb
Calcium	44-1	47171.47	46742.90	46691.52	46868.63	0.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.70	102.70	101.04	101.15	1.49	ppb
Cobalt	59-2	145.34	150.90	148.42	148.22	1.88	ppb
Copper	63-2	1077.49	1127.77	1077.99	1094.42	2.64	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				98		%
Holmium	165-2				95		%
Indium	115-1				96		%
Indium	115-2				90		%
Iron	54-2	7357.19	7657.35	7573.03	7529.19	2.06	ppb
Iron	56-2	7327.44	7530.50	7432.74	7430.22	1.37	ppb
Iron	57-2	7241.70	7372.58	7265.42	7293.23	0.96	ppb
Krypton	83-1						cps
Lead	206-1	495.47	503.36	479.36	492.73	2.48	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	505.36	515.08	492.07	504.17	2.29	ppb
Lead	208-1	494.89	501.83	484.58	493.77	1.76	ppb
Lithium	6-1				90		%
Magnesium	24-2	16907.80	17193.53	16447.17	16849.50	2.23	ppb
Manganese	55-2	4351.11	4514.66	4350.54	4405.44	2.15	ppb
Molybdenum	94-1	395.43	398.54	391.38	395.11	0.91	ppb
Molybdenum	95-1	303.23	306.11	309.58	306.30	1.04	ppb
Molybdenum	96-1	314.26	314.79	306.31	311.79	1.52	ppb
Molybdenum	97-1	301.96	317.25	300.84	306.68	2.99	ppb
Molybdenum	98-1	301.24	309.81	302.88	304.64	1.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	143.42	145.37	144.46	144.42	0.67	ppb
Phosphorus	31-2	544.33	505.68	484.68	511.57	5.91	ppb
Potassium	39-2	12053.89	12367.71	12162.48	12194.70	1.31	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				95		%
Scandium	45-2				91		%
Selenium	82-1	87.19	88.78	88.33	88.10	0.93	ppb
Selenium	77-2	115.26	128.59	105.16	116.34	10.10	ppb
Selenium	78-2	83.97	97.04	102.01	94.34	9.88	ppb
Silicon	28-1	701.53	694.85	674.66	690.35	2.03	ppb
Silver	107-1	16.28	16.49	16.22	16.33	0.87	ppb
Silver	109-1	16.15	16.43	16.27	16.28	0.87	ppb
Sodium	23-2	12208.43	12368.94	12629.01	12402.13	1.71	ppb
Strontium	86-1	203.18	205.79	202.03	203.67	0.95	ppb
Strontium	88-1	205.38	211.76	207.07	208.07	1.59	ppb
Sulfur	34-1	55155.09	54647.01	54069.95	54624.02	0.99	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	91.59	92.94	89.76	91.43	1.75	ppb
Thallium	205-1	96.29	97.67	92.13	95.36	3.02	ppb
Tin	118-1	85.01	86.87	86.85	86.24	1.24	ppb
Titanium	47-1	1.56	1.43	1.61	1.53	5.78	ppb
Uranium	238-1	93.83	97.07	95.53	95.48	1.70	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	110.69	113.37	111.55	111.87	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	1313.93	1338.92	1315.35	1322.73	1.06	ppb
Zirconium	90-1	83.19	85.96	82.50	83.88	2.18	ppb
Zirconium	91-1	80.05	82.27	80.24	80.86	1.52	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49326.67	49327.91	46537.34	48397.31	3.33	ppb
Antimony	121-1	501.99	510.80	498.62	503.80	1.25	ppb
Arsenic	75-2	508.42	481.34	483.54	491.10	3.06	ppb
Barium	135-1	2530.09	2578.58	2561.99	2556.88	0.96	ppb
Barium	137-1	2551.85	2634.89	2579.40	2588.71	1.63	ppb
Beryllium	9-1	506.68	510.54	517.76	511.66	1.10	ppb
Bismuth	209-1				88		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	486.97	504.63	491.60	494.40	1.85	ppb
Cadmium	106-1	497.41	507.30	494.81	499.84	1.32	ppb
Cadmium	111-1	489.30	502.54	494.07	495.30	1.35	ppb
Calcium	43-1	236703.67	238557.53	236977.37	237412.86	0.42	ppb
Calcium	44-1	231025.81	241230.79	240473.62	237576.74	2.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	494.32	474.66	465.84	478.27	3.05	ppb
Cobalt	59-2	510.40	496.58	469.56	492.18	4.22	ppb
Copper	63-2	5073.29	4926.81	4895.92	4965.34	1.91	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				93		%
Indium	115-1				86		%
Indium	115-2				85		%
Iron	54-2	132820.32	126430.66	122445.36	127232.11	4.11	ppb
Iron	56-2	128237.54	123214.66	123999.33	125150.51	2.16	ppb
Iron	57-2	128830.64	125119.33	121386.14	125112.04	2.98	ppb
Krypton	83-1						cps
Lead	206-1	2511.67	2530.24	2498.05	2513.32	0.64	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2488.13	2533.19	2473.22	2498.18	1.25	ppb
Lead	208-1	2461.76	2531.66	2493.83	2495.75	1.40	ppb
Lithium	6-1				83		%
Magnesium	24-2	243254.43	234211.55	234821.23	237429.07	2.13	ppb
Manganese	55-2	5075.05	4896.55	4698.74	4890.11	3.85	ppb
Molybdenum	94-1	5169.43	5133.92	5028.33	5110.56	1.44	ppb
Molybdenum	95-1	5275.58	5148.32	5072.97	5165.62	1.98	ppb
Molybdenum	96-1	5139.89	4897.64	5033.60	5023.71	2.42	ppb
Molybdenum	97-1	5212.97	5051.42	5177.06	5147.15	1.65	ppb
Molybdenum	98-1	5149.17	5203.56	5101.15	5151.29	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.92	480.78	464.74	479.48	2.95	ppb
Phosphorus	31-2	10101.53	10020.09	9403.88	9841.83	3.88	ppb
Potassium	39-2	132854.60	127686.52	126091.91	128877.67	2.74	ppb
Rhodium	103-1				82		%
Rhodium	103-2				83		%
Scandium	45-1				88		%
Scandium	45-2				90		%
Selenium	82-1	515.66	502.78	505.20	507.88	1.35	ppb
Selenium	77-2	486.39	441.55	461.75	463.23	4.85	ppb
Selenium	78-2	496.37	466.50	472.12	478.33	3.32	ppb
Silicon	28-1	483.29	503.17	498.32	494.93	2.09	ppb
Silver	107-1	498.36	493.34	478.82	490.17	2.07	ppb
Silver	109-1	497.52	499.78	488.60	495.30	1.19	ppb
Sodium	23-2	232897.94	224688.57	220224.93	225937.15	2.85	ppb
Strontium	86-1	525.46	516.23	517.83	519.84	0.95	ppb
Strontium	88-1	521.31	511.66	514.04	515.67	0.97	ppb
Sulfur	34-1	10410.02	10388.06	10386.14	10394.74	0.13	ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	497.33	502.03	498.84	499.40	0.48	ppb
Thallium	205-1	496.58	506.79	493.06	498.81	1.43	ppb
Tin	118-1	504.00	518.02	508.88	510.30	1.39	ppb
Titanium	47-1	5161.33	5010.69	4982.16	5051.39	1.91	ppb
Uranium	238-1	484.91	524.68	511.42	507.00	3.99	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	512.25	490.37	483.14	495.25	3.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				90		%
Zinc	66-2	5348.72	5069.65	4871.36	5096.58	4.71	ppb
Zirconium	90-1	517.28	521.85	512.48	517.21	0.91	ppb
Zirconium	91-1	535.71	515.99	516.84	522.84	2.13	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.96	-1.05	-1.05	-1.02		ppb
Antimony	121-1	0.05	0.04	0.03	0.04	19.40	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	-0.02	-0.01	-0.01	-0.02		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	0.03	0.04	0.03	0.03	19.25	ppb
Bismuth	209-1				100		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	0.00	0.02	88.77	ppb
Cadmium	106-1	-2.29	-2.60	-2.32	-2.40		ppb
Cadmium	111-1	-0.18	-0.21	-0.18	-0.19		ppb
Calcium	43-1	-12.25	-11.42	-11.97	-11.88		ppb
Calcium	44-1	-13.93	-12.93	-15.55	-14.14		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.09	-0.08	-0.08	-0.08		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	84.40	ppb
Copper	63-2	-0.16	-0.22	-0.20	-0.19		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				93		%
Indium	115-1				98		%
Indium	115-2				90		%
Iron	54-2	-0.79	-1.10	-0.87	-0.92		ppb
Iron	56-2	-1.08	-1.23	-1.16	-1.16		ppb
Iron	57-2	-1.55	-1.78	-1.32	-1.55		ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.03	0.02	0.03	23.18	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.04	0.04	11.68	ppb
Lead	208-1	0.03	0.03	0.03	0.03	5.86	ppb
Lithium	6-1				93		%
Magnesium	24-2	0.23	0.20	-0.53	-0.03		ppb
Manganese	55-2	-0.07	-0.02	-0.20	-0.09		ppb
Molybdenum	94-1	0.07	0.08	0.08	0.08	6.14	ppb
Molybdenum	95-1	0.04	0.03	0.03	0.03	21.63	ppb
Molybdenum	96-1	0.04	0.03	0.04	0.03	20.92	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	8.38	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	19.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.08	-0.08	-0.07		ppb
Phosphorus	31-2	-134.69	-145.79	-139.17	-139.88		ppb
Potassium	39-2	22.82	16.63	9.59	16.35	40.51	ppb
Rhodium	103-1				95		%
Rhodium	103-2				91		%
Scandium	45-1				94		%
Scandium	45-2				91		%
Selenium	82-1	0.14	0.13	0.21	0.16	28.85	ppb
Selenium	77-2	-0.25	0.57	0.57	0.30	160.32	ppb
Selenium	78-2	-1.05	-0.60	0.36	-0.43		ppb
Silicon	28-1	-0.56	-0.45	-0.93	-0.65		ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.93	ppb
Silver	109-1	0.01	0.01	0.01	0.01	23.06	ppb
Sodium	23-2	41.39	29.40	29.29	33.36	20.85	ppb
Strontium	86-1	0.00	0.00	0.00	0.00	284.13	ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	391.01	560.40	-392.04	186.46	272.51	ppb
Terbium	159-1				99		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.02	0.01	0.01	40.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	14.52	ppb
Tin	118-1	-0.12	-0.11	-0.12	-0.12		ppb
Titanium	47-1	0.05	0.03	0.02	0.04	34.39	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.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				99		%
Yttrium	89-2				90		%
Zinc	66-2	-0.53	-0.59	-0.55	-0.56		ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	5.16	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	11.58	ppb

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	140	117	103	120	15.47	cps
Antimony	121-1	33	40	57	43	27.74	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	130	170	87	129	32.33	cps
Barium	137-1	173	167	210	183	12.73	cps
Beryllium	9-1	124	105	102	110	10.52	cps
Bismuth	209-1	6129170	6116974	6122154	6122766	0.10	cps
Bismuth	209-2	2872383	2945709	2886575	2901556	1.34	cps
Bromine	81-1	21627	22308	22097	22011	1.58	cps
Cadmium	108-1	3	17	17	12	63.01	cps
Cadmium	106-1	6015	6241	6098	6118	1.87	cps
Cadmium	111-1	4218	4367	4267	4284	1.78	cps
Calcium	43-1	1313	1263	1153	1243	6.58	cps
Calcium	44-1	35761	35721	35497	35660	0.40	cps
Carbon	12-1	2958508	2962448	2996361	2972439	0.70	cps
Carbon	12-2	19740	19196	19857	19598	1.80	cps
Chlorine	35-1	108211	108650	108442	108434	0.20	cps
Chlorine	35-2	370	410	453	411	10.14	cps
Chromium	52-2	857	927	810	864	6.79	cps
Cobalt	59-2	37	43	47	42	12.06	cps
Copper	63-2	2250	2284	2324	2286	1.61	cps
Dysprosium	156-1	23	13	3	13	75.02	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	67	80	70	72	9.61	cps
Erbium	164-2	33	37	37	36	5.42	cps
Gadolinium	160-1	113	93	123	110	13.89	cps
Gadolinium	160-2	30	10	30	23	49.49	cps
Holmium	165-1	10111815	10324550	10044430	10160265	1.44	cps
Holmium	165-2	4043047	4045153	3981057	4023086	0.91	cps
Indium	115-1	9125950	9226718	9291959	9214876	0.91	cps
Indium	115-2	995021	992107	995892	994340	0.20	cps
Iron	54-2	610	620	630	620	1.61	cps
Iron	56-2	8132	8343	8062	8179	1.78	cps
Iron	57-2	233	253	223	237	6.46	cps
Krypton	83-1	167	200	177	181	9.44	cps
Lead	206-1	500	447	493	480	6.05	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	400	317	363	360	11.60	cps
Lead	208-1	1847	1613	1737	1732	6.74	cps
Lithium	6-1	3655737	3719339	3698952	3691342	0.88	cps
Magnesium	24-2	870	747	820	812	7.64	cps
Manganese	55-2	933	1047	1070	1017	7.19	cps
Molybdenum	94-1	340	373	367	360	4.90	cps
Molybdenum	95-1	160	100	133	131	22.93	cps
Molybdenum	96-1	160	190	213	188	14.24	cps
Molybdenum	97-1	70	80	77	76	6.74	cps
Molybdenum	98-1	183	187	220	197	10.31	cps
Neodymium	150-1	3	0	10	4	114.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	237	230	260	242	6.51	cps
Phosphorus	31-2	67	57	67	63	9.12	cps
Potassium	39-2	14818	14547	14894	14753	1.24	cps
Rhodium	103-1	8917924	8839788	9074145	8943953	1.33	cps
Rhodium	103-2	3670093	3653763	3687613	3670490	0.46	cps
Scandium	45-1	6235313	6236464	6450086	6307288	1.96	cps
Scandium	45-2	119418	119669	120752	119946	0.59	cps
Selenium	82-1	43	7	47	32	68.87	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	20	23	27	23	14.29	cps
Silicon	28-1	566182	586516	575681	576126	1.77	cps
Silver	107-1	153	120	137	137	12.20	cps
Silver	109-1	40	27	63	43	42.82	cps
Sodium	23-2	29360	29466	28929	29252	0.97	cps
Strontium	86-1	317	417	417	383	15.06	cps
Strontium	88-1	470	533	437	480	10.23	cps
Sulfur	34-1	572194	571356	579943	574498	0.82	cps
Terbium	159-1	10626931	10825826	10727294	10726684	0.93	cps
Terbium	159-2	3912693	3867783	3862509	3880995	0.71	cps
Thallium	203-1	133	160	153	149	9.32	cps
Thallium	205-1	343	323	380	349	8.24	cps
Tin	118-1	2880	2937	2707	2841	4.22	cps
Titanium	47-1	203	190	233	209	10.63	cps
Uranium	238-1	113	130	87	110	19.87	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:27:00	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	23	10	13	66.12	cps
Ytterbium	172-1	87	93	57	79	24.76	cps
Ytterbium	172-2	27	27	20	24	15.75	cps
Ytterbium	176-1	1573	1710	1543	1609	5.52	cps
Ytterbium	176-2	457	493	503	484	5.07	cps
Yttrium	89-1	16890641	16681978	16743523	16772048	0.64	cps
Yttrium	89-2	1276609	1291128	1280900	1282879	0.58	cps
Zinc	66-2	550	597	560	569	4.32	cps
Zirconium	90-1	823	830	920	858	6.29	cps
Zirconium	91-1	140	160	140	147	7.87	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1257	1200	1130	1196	5.31	cps
Antimony	121-1	30574	30932	31560	31022	1.61	cps
Arsenic	75-2	377	310	347	344	9.69	cps
Barium	135-1	33020	32800	33047	32956	0.41	cps
Barium	137-1	57133	56909	56628	56890	0.45	cps
Beryllium	9-1	4605	4501	4638	4581	1.55	cps
Bismuth	209-1	5897293	5952037	6124362	5991231	1.98	cps
Bismuth	209-2	3013516	2833275	2881056	2909283	3.21	cps
Bromine	81-1	22361	22779	22475	22538	0.96	cps
Cadmium	108-1	270	277	320	289	9.40	cps
Cadmium	106-1	6622	6605	6712	6646	0.86	cps
Cadmium	111-1	7970	7877	7965	7937	0.66	cps
Calcium	43-1	24728	25326	25256	25103	1.30	cps
Calcium	44-1	425606	432942	426425	428324	0.94	cps
Carbon	12-1	2845817	2868274	2824557	2846216	0.77	cps
Carbon	12-2	19203	18599	19019	18940	1.64	cps
Chlorine	35-1	110246	109658	109674	109859	0.30	cps
Chlorine	35-2	450	450	450	450	0.00	cps
Chromium	52-2	7185	7048	7162	7132	1.03	cps
Cobalt	59-2	6218	6301	6378	6299	1.27	cps
Copper	63-2	11418	11621	11862	11634	1.91	cps
Dysprosium	156-1	3	13	13	10	57.75	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	60	57	53	57	5.89	cps
Erbium	164-2	33	40	47	40	16.68	cps
Gadolinium	160-1	130	100	137	122	15.98	cps
Gadolinium	160-2	30	20	13	21	39.75	cps
Holmium	165-1	10215217	10208550	10229818	10217861	0.11	cps
Holmium	165-2	4125357	3980318	4054278	4053317	1.79	cps
Indium	115-1	9299811	9263411	9420744	9327989	0.88	cps
Indium	115-2	1010613	1011478	1019731	1013941	0.50	cps
Iron	54-2	7542	7392	7429	7454	1.05	cps
Iron	56-2	129699	130285	128159	129381	0.85	cps
Iron	57-2	3200	3210	3224	3212	0.36	cps
Krypton	83-1	227	233	197	219	8.92	cps
Lead	206-1	7849	8409	8146	8135	3.45	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7152	7399	7642	7398	3.31	cps
Lead	208-1	32697	33377	33694	33256	1.53	cps
Lithium	6-1	3708738	3727905	3716553	3717732	0.26	cps
Magnesium	24-2	95634	93836	95869	95113	1.17	cps
Manganese	55-2	2494	2294	2344	2377	4.38	cps
Molybdenum	94-1	32000	31639	32732	32124	1.73	cps
Molybdenum	95-1	38413	37731	37353	37832	1.42	cps
Molybdenum	96-1	41870	42234	41254	41786	1.18	cps
Molybdenum	97-1	23480	23730	23119	23443	1.31	cps
Molybdenum	98-1	60876	61402	60819	61032	0.53	cps
Neodymium	150-1	10	13	13	12	15.73	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	1767	1797	1697	1753	2.93	cps
Phosphorus	31-2	913	837	847	866	4.82	cps
Potassium	39-2	72209	73037	73268	72838	0.76	cps
Rhodium	103-1	9118270	9025848	8993784	9045967	0.71	cps
Rhodium	103-2	3643366	3670251	3724877	3679498	1.13	cps
Scandium	45-1	6185153	6419491	6503152	6369265	2.59	cps
Scandium	45-2	122584	122490	123865	122980	0.62	cps
Selenium	82-1	1240	1353	1313	1302	4.41	cps
Selenium	77-2	10	20	23	18	39.03	cps
Selenium	78-2	140	83	143	122	27.59	cps
Silicon	28-1	643016	633483	635380	637293	0.79	cps
Silver	107-1	19945	20692	20585	20407	1.98	cps
Silver	109-1	18149	18603	19187	18646	2.79	cps
Sodium	23-2	211876	212354	212269	212167	0.12	cps
Strontium	86-1	5274	5041	5324	5213	2.90	cps
Strontium	88-1	41906	41973	43274	42384	1.82	cps
Sulfur	34-1	608903	606860	608640	608134	0.18	cps
Terbium	159-1	10779588	10671247	10746225	10732353	0.52	cps
Terbium	159-2	4007019	3990760	3969537	3989105	0.47	cps
Thallium	203-1	11325	11759	11545	11543	1.88	cps
Thallium	205-1	27379	28074	27586	27680	1.29	cps
Tin	118-1	61163	61665	62291	61706	0.92	cps
Titanium	47-1	12008	11885	11628	11841	1.64	cps
Uranium	238-1	32231	32739	33507	32826	1.96	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:30:23	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	12519	11908	12305	12244	2.53	cps
Ytterbium	172-1	70	53	40	54	27.61	cps
Ytterbium	172-2	43	17	20	27	54.47	cps
Ytterbium	176-1	1680	1603	1747	1677	4.28	cps
Ytterbium	176-2	460	457	463	460	0.72	cps
Yttrium	89-1	17216769	16827863	17427998	17157543	1.77	cps
Yttrium	89-2	1302541	1297962	1313619	1304707	0.62	cps
Zinc	66-2	3220	3274	3134	3209	2.20	cps
Zirconium	90-1	27754	28569	28683	28335	1.79	cps
Zirconium	91-1	6458	6291	6101	6284	2.84	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	49986	50869	50159	50338	0.93	cps
Antimony	121-1	740619	751554	742793	744989	0.78	cps
Arsenic	75-2	17087	17514	17771	17458	1.98	cps
Barium	135-1	794959	812401	805309	804223	1.09	cps
Barium	137-1	1369071	1407388	1399214	1391891	1.45	cps
Beryllium	9-1	206455	207969	206631	207018	0.40	cps
Bismuth	209-1	6197342	6258673	6117873	6191296	1.14	cps
Bismuth	209-2	2899782	2909125	2961971	2923626	1.15	cps
Bromine	81-1	22605	22929	22398	22644	1.18	cps
Cadmium	108-1	14785	14998	15208	14997	1.41	cps
Cadmium	106-1	27524	28038	27822	27795	0.93	cps
Cadmium	111-1	186504	192574	190789	189956	1.64	cps
Calcium	43-1	237232	237252	234911	236465	0.57	cps
Calcium	44-1	3859631	3859885	3783089	3834202	1.15	cps
Carbon	12-1	2852391	2835550	2875303	2854415	0.70	cps
Carbon	12-2	19156	18445	19076	18892	2.06	cps
Chlorine	35-1	128706	129136	129691	129177	0.38	cps
Chlorine	35-2	457	480	407	448	8.37	cps
Chromium	52-2	149398	148973	149880	149417	0.30	cps
Cobalt	59-2	284587	289625	287044	287085	0.88	cps
Copper	63-2	2364254	2353938	2310308	2342833	1.22	cps
Dysprosium	156-1	30	37	37	34	11.18	cps
Dysprosium	156-2	13	7	13	11	34.61	cps
Erbium	164-1	120	100	127	116	12.01	cps
Erbium	164-2	33	43	40	39	13.09	cps
Gadolinium	160-1	123	143	123	130	8.88	cps
Gadolinium	160-2	17	33	30	27	33.06	cps
Holmium	165-1	10211011	10213288	10166308	10196869	0.26	cps
Holmium	165-2	4081967	4067134	4028473	4059191	0.68	cps
Indium	115-1	9308742	9320433	9300996	9310057	0.11	cps
Indium	115-2	988699	990993	995733	991809	0.36	cps
Iron	54-2	314045	306250	311081	310459	1.27	cps
Iron	56-2	5845138	5763756	5593616	5734170	2.24	cps
Iron	57-2	144696	144026	142588	143770	0.75	cps
Krypton	83-1	233	237	200	223	9.08	cps
Lead	206-1	2436116	2428082	2333343	2399180	2.38	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2018156	2032635	1973082	2007958	1.55	cps
Lead	208-1	9416823	9427953	9173546	9339441	1.54	cps
Lithium	6-1	3633378	3668246	3695697	3665773	0.85	cps
Magnesium	24-2	897228	908426	905879	903845	0.65	cps
Manganese	55-2	635161	634289	632141	633864	0.25	cps
Molybdenum	94-1	2558370	2606654	2543844	2569623	1.28	cps
Molybdenum	95-1	3765161	3805583	3695409	3755384	1.48	cps
Molybdenum	96-1	4068599	4095263	4065078	4076313	0.40	cps
Molybdenum	97-1	2306011	2310838	2326930	2314593	0.47	cps
Molybdenum	98-1	5991383	5998442	5928260	5972695	0.65	cps
Neodymium	150-1	110	57	53	73	43.36	cps
Neodymium	150-2	3	10	13	9	57.30	cps
Nickel	60-2	80198	80925	79202	80108	1.08	cps
Phosphorus	31-2	2947	2940	2910	2933	0.67	cps
Potassium	39-2	296209	294998	294915	295374	0.25	cps
Rhodium	103-1	9073102	9010103	8873451	8985552	1.14	cps
Rhodium	103-2	3646534	3726382	3620420	3664446	1.51	cps
Scandium	45-1	6423378	6378299	6425273	6408983	0.41	cps
Scandium	45-2	119367	120211	119347	119642	0.41	cps
Selenium	82-1	12432	12392	12886	12570	2.18	cps
Selenium	77-2	217	233	223	224	3.74	cps
Selenium	78-2	897	770	767	811	9.14	cps
Silicon	28-1	5656296	5657461	5582063	5631940	0.77	cps
Silver	107-1	914079	939238	931747	928355	1.39	cps
Silver	109-1	858023	886726	885780	876843	1.86	cps
Sodium	23-2	1747920	1829202	1770305	1782476	2.36	cps
Strontium	86-1	227988	231628	232704	230773	1.07	cps
Strontium	88-1	2092414	2030819	2062399	2061877	1.49	cps
Sulfur	34-1	688063	683581	680254	683966	0.57	cps
Terbium	159-1	10947694	11068329	10820804	10945609	1.13	cps
Terbium	159-2	3943113	3984592	3975303	3967669	0.55	cps
Thallium	203-1	544355	560024	556457	553612	1.48	cps
Thallium	205-1	1317262	1328668	1323173	1323034	0.43	cps
Tin	118-1	572839	585141	578059	578680	1.07	cps
Titanium	47-1	1070114	1080948	1074901	1075321	0.50	cps
Uranium	238-1	1583728	1606781	1592862	1594457	0.73	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:37:13	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	115163	115169	115280	115204	0.06	cps
Ytterbium	172-1	63	83	83	77	15.06	cps
Ytterbium	172-2	60	27	43	43	38.46	cps
Ytterbium	176-1	4351	4314	4214	4293	1.65	cps
Ytterbium	176-2	1587	1667	1327	1527	11.64	cps
Yttrium	89-1	17228874	17295666	17103597	17209379	0.57	cps
Yttrium	89-2	1281572	1278770	1290130	1283490	0.46	cps
Zinc	66-2	255826	255599	254451	255292	0.29	cps
Zirconium	90-1	1243254	1277210	1261907	1260790	1.35	cps
Zirconium	91-1	281567	283135	281848	282183	0.30	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	122810	122598	121375	122261	0.63	cps
Antimony	121-1	1893268	1943714	1896503	1911161	1.48	cps
Arsenic	75-2	42052	41197	41601	41617	1.03	cps
Barium	135-1	1994363	2060647	2057184	2037398	1.83	cps
Barium	137-1	3390786	3502904	3644721	3512803	3.62	cps
Beryllium	9-1	494439	499611	500258	498103	0.64	cps
Bismuth	209-1	6198280	6141307	6303235	6214274	1.32	cps
Bismuth	209-2	2861857	2844550	2839110	2848506	0.42	cps
Bromine	81-1	21647	21280	20993	21306	1.54	cps
Cadmium	108-1	36044	37187	36565	36598	1.56	cps
Cadmium	106-1	57305	59260	58105	58223	1.69	cps
Cadmium	111-1	452414	465438	456991	458281	1.44	cps
Calcium	43-1	561065	569558	566039	565554	0.75	cps
Calcium	44-1	9051913	9194067	9110275	9118752	0.78	cps
Carbon	12-1	2817140	2794443	2778717	2796767	0.69	cps
Carbon	12-2	18962	18795	18732	18830	0.63	cps
Chlorine	35-1	128359	130471	129439	129423	0.82	cps
Chlorine	35-2	460	427	530	472	11.17	cps
Chromium	52-2	357317	358107	356339	357254	0.25	cps
Cobalt	59-2	685393	685610	681466	684157	0.34	cps
Copper	63-2	5525797	5542547	5482149	5516831	0.57	cps
Dysprosium	156-1	57	60	60	59	3.26	cps
Dysprosium	156-2	17	7	10	11	45.82	cps
Erbium	164-1	113	113	103	110	5.25	cps
Erbium	164-2	60	23	27	37	55.30	cps
Gadolinium	160-1	180	107	117	134	29.58	cps
Gadolinium	160-2	33	27	30	30	11.10	cps
Holmium	165-1	10283189	10362953	10578737	10408293	1.47	cps
Holmium	165-2	3930019	3980022	3956951	3955664	0.63	cps
Indium	115-1	9369677	9453470	9325688	9382945	0.69	cps
Indium	115-2	954847	961472	958842	958387	0.35	cps
Iron	54-2	751393	742675	733844	742637	1.18	cps
Iron	56-2	13877213	13923592	13608198	13803001	1.23	cps
Iron	57-2	341325	343384	346288	343666	0.73	cps
Krypton	83-1	213	177	237	209	14.48	cps
Lead	206-1	5847351	5959328	5998536	5935072	1.32	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4929768	5140254	5009034	5026352	2.11	cps
Lead	208-1	23103778	23180494	23225822	23170031	0.27	cps
Lithium	6-1	3634212	3597872	3595848	3609311	0.60	cps
Magnesium	24-2	2107546	2137317	2161340	2135401	1.26	cps
Manganese	55-2	1545879	1586058	1538954	1556964	1.63	cps
Molybdenum	94-1	6095984	6252869	6112596	6153817	1.40	cps
Molybdenum	95-1	9008571	9163371	8949517	9040486	1.22	cps
Molybdenum	96-1	9767012	9905336	9637357	9769902	1.37	cps
Molybdenum	97-1	5456653	5592926	5477521	5509034	1.33	cps
Molybdenum	98-1	14250361	14412003	14486919	14383094	0.84	cps
Neodymium	150-1	157	193	177	176	10.46	cps
Neodymium	150-2	13	10	13	12	15.73	cps
Nickel	60-2	189769	189938	189690	189799	0.07	cps
Phosphorus	31-2	6592	6492	6725	6603	1.77	cps
Potassium	39-2	680747	692553	692153	688484	0.97	cps
Rhodium	103-1	8673558	8803483	8626721	8701254	1.05	cps
Rhodium	103-2	3483461	3521354	3407656	3470824	1.67	cps
Scandium	45-1	6150614	6333247	6119737	6201199	1.86	cps
Scandium	45-2	115836	115822	116181	115946	0.18	cps
Selenium	82-1	29919	29642	30270	29944	1.05	cps
Selenium	77-2	543	540	507	530	3.83	cps
Selenium	78-2	1827	1917	1817	1853	2.97	cps
Silicon	28-1	12701072	12690983	12650607	12680887	0.21	cps
Silver	107-1	2369458	2436854	2341329	2382547	2.06	cps
Silver	109-1	2220703	2271702	2235467	2242624	1.17	cps
Sodium	23-2	4310850	4157919	4209290	4226020	1.84	cps
Strontium	86-1	553576	561592	555358	556842	0.76	cps
Strontium	88-1	4918581	4970196	4965089	4951289	0.57	cps
Sulfur	34-1	778006	777903	764307	773405	1.02	cps
Terbium	159-1	10959825	10995999	10639261	10865028	1.81	cps
Terbium	159-2	3918788	3936142	3862035	3905655	0.99	cps
Thallium	203-1	1360309	1397731	1394988	1384343	1.51	cps
Thallium	205-1	3339765	3358849	3483373	3393996	2.30	cps
Tin	118-1	1387765	1418029	1434431	1413408	1.67	cps
Titanium	47-1	2606020	2586462	2599236	2597239	0.38	cps
Uranium	238-1	4152528	4173784	4235593	4187302	1.03	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:41:56	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	274182	275717	273556	274485	0.41	cps
Ytterbium	172-1	120	87	107	104	16.06	cps
Ytterbium	172-2	37	17	47	33	45.82	cps
Ytterbium	176-1	8640	8700	8469	8603	1.39	cps
Ytterbium	176-2	3174	3130	2934	3079	4.15	cps
Yttrium	89-1	17499608	16951446	17107627	17186227	1.64	cps
Yttrium	89-2	1225306	1246089	1243342	1238246	0.91	cps
Zinc	66-2	605857	610087	609455	608466	0.38	cps
Zirconium	90-1	3174144	3162855	3157420	3164807	0.27	cps
Zirconium	91-1	673671	690899	685834	683468	1.30	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	241183	241988	241844	241672	0.18	cps
Antimony	121-1	3737659	3831842	3725540	3765013	1.55	cps
Arsenic	75-2	82882	82865	81504	82417	0.96	cps
Barium	135-1	4025159	4137902	4045972	4069678	1.47	cps
Barium	137-1	6841893	7117321	6972555	6977257	1.97	cps
Beryllium	9-1	962546	975305	973864	970572	0.72	cps
Bismuth	209-1	5966110	6106635	6169589	6080778	1.71	cps
Bismuth	209-2	2867435	2830733	2752794	2816987	2.08	cps
Bromine	81-1	21129	20889	20952	20990	0.59	cps
Cadmium	108-1	70861	73086	72315	72087	1.57	cps
Cadmium	106-1	108277	109036	110740	109351	1.15	cps
Cadmium	111-1	885869	896972	909627	897489	1.32	cps
Calcium	43-1	1112180	1111641	1127653	1117158	0.81	cps
Calcium	44-1	18071414	17933617	18207236	18070756	0.76	cps
Carbon	12-1	2778387	2766733	2768773	2771297	0.22	cps
Carbon	12-2	18992	18779	19476	19082	1.87	cps
Chlorine	35-1	130146	133176	131622	131648	1.15	cps
Chlorine	35-2	447	517	470	478	7.46	cps
Chromium	52-2	706742	713189	710974	710302	0.46	cps
Cobalt	59-2	1353521	1339781	1345807	1346370	0.51	cps
Copper	63-2	10857977	10733221	10833287	10808162	0.61	cps
Dysprosium	156-1	103	77	90	90	14.81	cps
Dysprosium	156-2	13	23	20	19	26.96	cps
Erbium	164-1	113	143	130	129	11.67	cps
Erbium	164-2	60	47	33	47	28.58	cps
Gadolinium	160-1	160	153	133	149	9.32	cps
Gadolinium	160-2	40	70	37	49	37.55	cps
Holmium	165-1	10410411	10514418	10484519	10469783	0.51	cps
Holmium	165-2	4040221	3958983	4055423	4018209	1.29	cps
Indium	115-1	9025494	9086642	8957294	9023143	0.72	cps
Indium	115-2	934362	930835	940468	935221	0.52	cps
Iron	54-2	1500956	1506239	1491684	1499626	0.49	cps
Iron	56-2	27234670	27215057	26986890	27145539	0.51	cps
Iron	57-2	678039	682483	670532	677018	0.89	cps
Krypton	83-1	230	213	200	214	7.01	cps
Lead	206-1	12009111	11849841	12063566	11974173	0.93	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10094745	10266465	10229740	10196983	0.89	cps
Lead	208-1	45844439	47058128	48010209	46970925	2.31	cps
Lithium	6-1	3515302	3514019	3458252	3495858	0.93	cps
Magnesium	24-2	4233685	4220558	4096211	4183485	1.81	cps
Manganese	55-2	3031324	3021292	3060409	3037675	0.67	cps
Molybdenum	94-1	12469053	12221763	12439889	12376902	1.09	cps
Molybdenum	95-1	17486489	17724734	18102434	17771219	1.75	cps
Molybdenum	96-1	19611336	19769828	19226764	19535976	1.43	cps
Molybdenum	97-1	11043420	10938952	11211287	11064553	1.24	cps
Molybdenum	98-1	28688951	28058800	28850544	28532765	1.47	cps
Neodymium	150-1	263	290	350	301	14.74	cps
Neodymium	150-2	30	27	27	28	6.92	cps
Nickel	60-2	374055	374785	371706	373515	0.43	cps
Phosphorus	31-2	13326	13363	13560	13416	0.94	cps
Potassium	39-2	1348484	1349859	1319234	1339192	1.29	cps
Rhodium	103-1	8458266	8376775	8486611	8440551	0.68	cps
Rhodium	103-2	3394529	3374646	3430532	3399902	0.83	cps
Scandium	45-1	5817766	5985509	5976485	5926587	1.59	cps
Scandium	45-2	114163	114679	113968	114270	0.32	cps
Selenium	82-1	59868	60434	60313	60205	0.49	cps
Selenium	77-2	1020	990	1050	1020	2.94	cps
Selenium	78-2	3727	3517	3560	3602	3.08	cps
Silicon	28-1	23462541	24422786	24130695	24005341	2.05	cps
Silver	107-1	4596231	4688535	4587348	4624038	1.21	cps
Silver	109-1	4253356	4332910	4432968	4339745	2.07	cps
Sodium	23-2	8378133	8509349	8416710	8434731	0.80	cps
Strontium	86-1	1103527	1116935	1115578	1112013	0.66	cps
Strontium	88-1	9724470	9946132	10023579	9898061	1.57	cps
Sulfur	34-1	937654	942177	928109	935980	0.77	cps
Terbium	159-1	10787204	10580766	10660005	10675991	0.98	cps
Terbium	159-2	3878020	3842144	3786978	3835714	1.20	cps
Thallium	203-1	2992775	2966799	2922429	2960668	1.20	cps
Thallium	205-1	6718203	6939141	7026022	6894456	2.30	cps
Tin	118-1	2884865	2869887	2946128	2900293	1.39	cps
Titanium	47-1	5069174	4982203	5029514	5026964	0.87	cps
Uranium	238-1	8242317	8606354	8696769	8515146	2.83	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:44:58	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	544205	544419	547996	545540	0.39	cps
Ytterbium	172-1	137	163	157	152	9.12	cps
Ytterbium	172-2	63	80	63	69	13.97	cps
Ytterbium	176-1	14882	15045	15846	15258	3.38	cps
Ytterbium	176-2	5678	5555	5938	5724	3.42	cps
Yttrium	89-1	16646189	16622193	16896596	16721659	0.91	cps
Yttrium	89-2	1216372	1218275	1230482	1221710	0.63	cps
Zinc	66-2	1195195	1201908	1194834	1197312	0.33	cps
Zirconium	90-1	6244404	6417277	6223708	6295130	1.69	cps
Zirconium	91-1	1340909	1366250	1366739	1357966	1.09	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	461893	471683	467612	467062	1.05	cps
Antimony	121-1	7397911	7339233	7470876	7402673	0.89	cps
Arsenic	75-2	157745	160496	160226	159489	0.95	cps
Barium	135-1	7985674	7989278	8004731	7993228	0.13	cps
Barium	137-1	13593516	13704853	13620552	13639640	0.43	cps
Beryllium	9-1	1740823	1739651	1737308	1739261	0.10	cps
Bismuth	209-1	5932434	5984931	6068347	5995238	1.14	cps
Bismuth	209-2	2632002	2698982	2727504	2686163	1.83	cps
Bromine	81-1	20034	20675	20599	20436	1.71	cps
Cadmium	108-1	137343	139821	139891	139019	1.04	cps
Cadmium	106-1	202175	207052	207721	205649	1.47	cps
Cadmium	111-1	1812423	1763575	1802519	1792839	1.44	cps
Calcium	43-1	2161615	2124990	2137673	2141426	0.87	cps
Calcium	44-1	35141863	34875112	34992163	35003046	0.38	cps
Carbon	12-1	2781228	2804453	2773753	2786478	0.57	cps
Carbon	12-2	19563	19166	19249	19326	1.08	cps
Chlorine	35-1	138542	140120	141783	140148	1.16	cps
Chlorine	35-2	423	533	597	518	16.94	cps
Chromium	52-2	1383613	1379774	1396338	1386575	0.63	cps
Cobalt	59-2	2716544	2683260	2667947	2689250	0.92	cps
Copper	63-2	21123917	20822398	20547813	20831376	1.38	cps
Dysprosium	156-1	160	233	227	207	19.62	cps
Dysprosium	156-2	33	37	33	34	5.60	cps
Erbium	164-1	193	220	227	213	8.27	cps
Erbium	164-2	67	83	50	67	25.00	cps
Gadolinium	160-1	173	193	207	191	8.78	cps
Gadolinium	160-2	50	40	50	47	12.37	cps
Holmium	165-1	9916382	10309912	10393661	10206652	2.50	cps
Holmium	165-2	3845401	3978932	3935450	3919928	1.74	cps
Indium	115-1	8661740	8800615	8788279	8750211	0.88	cps
Indium	115-2	886200	897519	885061	889593	0.77	cps
Iron	54-2	2851052	2933903	2880829	2888595	1.45	cps
Iron	56-2	51812703	52007761	52745614	52188693	0.94	cps
Iron	57-2	1290738	1309494	1304681	1301637	0.75	cps
Krypton	83-1	220	203	277	233	16.47	cps
Lead	206-1	22903900	23098915	23188663	23063826	0.63	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19280982	20135668	19872585	19763078	2.21	cps
Lead	208-1	89655322	92232131	91075332	90987595	1.42	cps
Lithium	6-1	3376777	3433713	3466213	3425568	1.32	cps
Magnesium	24-2	8175765	8152303	8201611	8176560	0.30	cps
Manganese	55-2	5737841	5756373	5698849	5731021	0.51	cps
Molybdenum	94-1	24316888	24321515	24646916	24428440	0.77	cps
Molybdenum	95-1	35155639	35135432	35364091	35218388	0.36	cps
Molybdenum	96-1	37604965	38117878	38463118	38061987	1.13	cps
Molybdenum	97-1	21118986	21858776	21459319	21479027	1.72	cps
Molybdenum	98-1	56455927	57665071	57673787	57264929	1.22	cps
Neodymium	150-1	640	617	583	613	4.64	cps
Neodymium	150-2	53	40	40	44	17.32	cps
Nickel	60-2	709691	718475	706357	711508	0.88	cps
Phosphorus	31-2	25669	25626	26384	25893	1.64	cps
Potassium	39-2	2611433	2627413	2590036	2609627	0.72	cps
Rhodium	103-1	7890544	8162561	8207051	8086719	2.12	cps
Rhodium	103-2	3287289	3336997	3258515	3294267	1.21	cps
Scandium	45-1	5714317	5941637	5905147	5853700	2.09	cps
Scandium	45-2	111014	109910	109910	110278	0.58	cps
Selenium	82-1	113120	115032	116128	114760	1.33	cps
Selenium	77-2	2154	2023	2147	2108	3.47	cps
Selenium	78-2	7115	7145	7085	7115	0.42	cps
Silicon	28-1	46050403	45450193	45572508	45691034	0.69	cps
Silver	107-1	9003668	8996138	8725551	8908453	1.78	cps
Silver	109-1	8324750	8262585	8378284	8321873	0.70	cps
Sodium	23-2	15911902	16064736	16706609	16227749	2.60	cps
Strontium	86-1	2212363	2212479	2260608	2228483	1.25	cps
Strontium	88-1	18503002	19112435	19348114	18987850	2.30	cps
Sulfur	34-1	1108554	1085373	1076592	1090173	1.51	cps
Terbium	159-1	10760459	10659696	10672208	10697454	0.51	cps
Terbium	159-2	3658581	3728930	3683746	3690419	0.97	cps
Thallium	203-1	5631847	5751409	5720781	5701346	1.09	cps
Thallium	205-1	13293324	13122129	13363104	13259519	0.94	cps
Tin	118-1	5453655	5531262	5654002	5546306	1.82	cps
Titanium	47-1	9859734	9607562	9758218	9741838	1.30	cps
Uranium	238-1	16483000	17074006	16594348	16717118	1.88	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:48:00	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1058253	1055948	1059135	1057778	0.16	cps
Ytterbium	172-1	230	203	223	219	6.34	cps
Ytterbium	172-2	100	87	93	93	7.14	cps
Ytterbium	176-1	27993	28534	29607	28711	2.86	cps
Ytterbium	176-2	10724	10704	10614	10681	0.55	cps
Yttrium	89-1	15987766	16458282	16421967	16289339	1.61	cps
Yttrium	89-2	1176184	1189236	1169139	1178186	0.87	cps
Zinc	66-2	2375965	2395215	2364029	2378403	0.66	cps
Zirconium	90-1	12258173	12276554	12267838	12267522	0.07	cps
Zirconium	91-1	2730503	2755175	2752752	2746143	0.50	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	903597	921514	909092	911401	1.01	cps
Antimony	121-1	14095904	14506166	14529036	14377035	1.70	cps
Arsenic	75-2	307370	310847	308596	308938	0.57	cps
Barium	135-1	15240488	15263631	15386144	15296754	0.51	cps
Barium	137-1	25148110	26639819	26313839	26033923	3.01	cps
Beryllium	9-1	3281733	3384260	3361402	3342465	1.61	cps
Bismuth	209-1	5678472	5795661	5889280	5787804	1.82	cps
Bismuth	209-2	2537342	2624453	2562586	2574794	1.74	cps
Bromine	81-1	21086	19984	20415	20495	2.71	cps
Cadmium	108-1	264094	265286	268500	265960	0.86	cps
Cadmium	106-1	381609	390934	389187	387243	1.28	cps
Cadmium	111-1	3351575	3421192	3455511	3409426	1.55	cps
Calcium	43-1	3912756	4146293	4103955	4054335	3.07	cps
Calcium	44-1	65585847	68503414	68059457	67382906	2.33	cps
Carbon	12-1	2808955	2871140	2853110	2844401	1.12	cps
Carbon	12-2	20311	20615	20434	20453	0.75	cps
Chlorine	35-1	158208	162699	163711	161539	1.81	cps
Chlorine	35-2	663	683	620	656	4.94	cps
Chromium	52-2	2754050	2724880	2710521	2729817	0.81	cps
Cobalt	59-2	5094676	5100854	4978750	5058094	1.36	cps
Copper	63-2	39443551	39322132	39863507	39543063	0.72	cps
Dysprosium	156-1	410	407	487	434	10.42	cps
Dysprosium	156-2	37	83	73	64	38.12	cps
Erbium	164-1	323	307	293	308	4.88	cps
Erbium	164-2	110	120	90	107	14.32	cps
Gadolinium	160-1	263	257	257	259	1.49	cps
Gadolinium	160-2	123	93	100	106	14.93	cps
Holmium	165-1	9943545	10295807	10115342	10118231	1.74	cps
Holmium	165-2	3765567	3764237	3825008	3784937	0.92	cps
Indium	115-1	8013693	8261294	8323302	8199430	2.00	cps
Indium	115-2	826448	848196	843489	839378	1.36	cps
Iron	54-2	5503058	5534072	5598191	5545107	0.87	cps
Iron	56-2	101999652	100968975	98234599	100401075	1.94	cps
Iron	57-2	2550081	2618506	2628950	2599179	1.65	cps
Krypton	83-1	227	243	267	246	8.18	cps
Lead	206-1	44532323	45041624	45473889	45015945	1.05	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36959442	39170550	38235931	38121974	2.91	cps
Lead	208-1	171956300	179502646	179224029	176894325	2.42	cps
Lithium	6-1	3286309	3252108	3289533	3275983	0.63	cps
Magnesium	24-2	15824319	15662516	15838567	15775134	0.62	cps
Manganese	55-2	11318057	11336763	11336131	11330317	0.09	cps
Molybdenum	94-1	46578463	48202329	47693854	47491549	1.75	cps
Molybdenum	95-1	67365464	68413051	67997156	67925223	0.78	cps
Molybdenum	96-1	74404267	75651317	75200864	75085483	0.84	cps
Molybdenum	97-1	40551033	42881664	42242669	41891789	2.87	cps
Molybdenum	98-1	106456022	110272625	108155785	108294811	1.77	cps
Neodymium	150-1	1197	1160	1150	1169	2.10	cps
Neodymium	150-2	60	87	63	70	20.76	cps
Nickel	60-2	1356039	1338954	1351070	1348687	0.65	cps
Phosphorus	31-2	50521	50896	50467	50628	0.46	cps
Potassium	39-2	4980913	4924949	4987339	4964400	0.69	cps
Rhodium	103-1	7723323	7990422	7759767	7824504	1.85	cps
Rhodium	103-2	3080389	3147319	3148107	3125272	1.24	cps
Scandium	45-1	5684718	5697419	5717348	5699828	0.29	cps
Scandium	45-2	108774	109906	111079	109920	1.05	cps
Selenium	82-1	220050	222062	221845	221319	0.50	cps
Selenium	77-2	3931	3871	3854	3885	1.04	cps
Selenium	78-2	13427	13203	13083	13237	1.32	cps
Silicon	28-1	88576169	87873849	87336499	87928839	0.71	cps
Silver	107-1	16899894	16881159	17139993	16973682	0.85	cps
Silver	109-1	15818885	15593258	16058750	15823631	1.47	cps
Sodium	23-2	31118637	31061711	31848468	31342939	1.40	cps
Strontium	86-1	4278195	4309667	4351236	4313033	0.85	cps
Strontium	88-1	36784895	37904514	38087411	37592273	1.88	cps
Sulfur	34-1	1607951	1627198	1595323	1610157	1.00	cps
Terbium	159-1	10579932	10381889	10369269	10443696	1.13	cps
Terbium	159-2	3690991	3700863	3649713	3680522	0.74	cps
Thallium	203-1	10925334	11015969	11035945	10992416	0.54	cps
Thallium	205-1	25853470	25805476	27012940	26223962	2.61	cps
Tin	118-1	10721390	10934427	10886704	10847507	1.03	cps
Titanium	47-1	18723676	19240363	19282494	19082177	1.63	cps
Uranium	238-1	31715606	33402580	33260401	32792863	2.85	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:50:45	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2036357	2097325	2087666	2073782	1.58	cps
Ytterbium	172-1	323	333	287	314	7.81	cps
Ytterbium	172-2	160	143	147	150	5.88	cps
Ytterbium	176-1	54261	55513	55024	54933	1.15	cps
Ytterbium	176-2	20953	20893	20623	20823	0.85	cps
Yttrium	89-1	15603284	15936139	16113537	15884320	1.63	cps
Yttrium	89-2	1132436	1161736	1167567	1153913	1.63	cps
Zinc	66-2	4559867	4468743	4470675	4499762	1.16	cps
Zirconium	90-1	23264300	24159361	23934161	23785941	1.96	cps
Zirconium	91-1	5164035	5297478	5294215	5251909	1.45	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4195827	4179821	4234363	4203337	0.67	cps
Antimony	121-1	8199	7799	7535	7845	4.26	cps
Arsenic	75-2	113	130	133	126	8.53	cps
Barium	135-1	7125	7099	6792	7005	2.65	cps
Barium	137-1	12619	11792	12002	12138	3.54	cps
Beryllium	9-1	862	727	637	742	15.25	cps
Bismuth	209-1	5316740	5335737	5280113	5310864	0.53	cps
Bismuth	209-2	2397240	2342885	2378642	2372922	1.16	cps
Bromine	81-1	20488	20438	19774	20234	1.97	cps
Cadmium	108-1	190	127	123	147	25.61	cps
Cadmium	106-1	5434	5598	5264	5432	3.07	cps
Cadmium	111-1	4278	4430	4205	4304	2.66	cps
Calcium	43-1	20179142	20029206	19899315	20035888	0.70	cps
Calcium	44-1	327911415	330711455	318947809	325856893	1.89	cps
Carbon	12-1	2536691	2535857	2534486	2535678	0.04	cps
Carbon	12-2	22120	22157	22310	22196	0.45	cps
Chlorine	35-1	120953	121178	120816	120982	0.15	cps
Chlorine	35-2	393	393	457	414	8.82	cps
Chromium	52-2	3994	4047	3904	3982	1.82	cps
Cobalt	59-2	5688	5788	5655	5710	1.22	cps
Copper	63-2	6732	6608	6575	6638	1.24	cps
Dysprosium	156-1	753	673	753	727	6.36	cps
Dysprosium	156-2	243	203	150	199	23.54	cps
Erbium	164-1	1423	1367	1273	1355	5.59	cps
Erbium	164-2	497	523	513	511	2.64	cps
Gadolinium	160-1	697	723	770	730	5.08	cps
Gadolinium	160-2	333	320	283	312	8.29	cps
Holmium	165-1	9765137	9678633	9746055	9729942	0.47	cps
Holmium	165-2	3676072	3699457	3752507	3709345	1.06	cps
Indium	115-1	7996929	7797325	7906836	7900363	1.27	cps
Indium	115-2	822817	823055	828725	824866	0.41	cps
Iron	54-2	25658324	25171901	25237906	25356044	1.04	cps
Iron	56-2	473122833	477490460	470367940	473660411	0.76	cps
Iron	57-2	11994894	12002086	12034915	12010632	0.18	cps
Krypton	83-1	223	283	230	246	13.39	cps
Lead	206-1	32136	32293	31712	32047	0.94	cps

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Inst Id :P8
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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27850	27422	27202	27491	1.20	cps
Lead	208-1	126620	126755	125893	126423	0.37	cps
Lithium	6-1	3064796	3019901	3035248	3039982	0.75	cps
Magnesium	24-2	72947029	71890907	72992404	72610113	0.86	cps
Manganese	55-2	5064	4711	4774	4850	3.89	cps
Molybdenum	94-1	13073	12125	11922	12373	4.96	cps
Molybdenum	95-1	9737	8816	7849	8801	10.73	cps
Molybdenum	96-1	16703	15372	14881	15652	6.02	cps
Molybdenum	97-1	5695	5188	4874	5252	7.88	cps
Molybdenum	98-1	14798	12936	12322	13352	9.66	cps
Neodymium	150-1	237	240	310	262	15.79	cps
Neodymium	150-2	80	90	93	88	7.90	cps
Nickel	60-2	3390	3264	3407	3354	2.34	cps
Phosphorus	31-2	100	60	90	83	24.98	cps
Potassium	39-2	23276853	23149493	23141338	23189228	0.33	cps
Rhodium	103-1	7136797	7323570	7066951	7175772	1.85	cps
Rhodium	103-2	2859818	2888523	2862741	2870361	0.55	cps
Scandium	45-1	5488807	5535009	5414465	5479427	1.11	cps
Scandium	45-2	102821	102506	102116	102481	0.34	cps
Selenium	82-1	310	203	163	226	33.61	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	43	17	47	36	46.24	cps
Silicon	28-1	647641	598559	582361	609520	5.58	cps
Silver	107-1	1907	1740	1663	1770	7.03	cps
Silver	109-1	1707	1683	1310	1567	14.21	cps
Sodium	23-2	145452341	145175878	144616685	145081635	0.29	cps
Strontium	86-1	14448	14384	13790	14207	2.55	cps
Strontium	88-1	124906	123073	122841	123607	0.92	cps
Sulfur	34-1	491545	491711	490890	491382	0.09	cps
Terbium	159-1	10102195	10061923	9853491	10005870	1.33	cps
Terbium	159-2	3570532	3576572	3584967	3577357	0.20	cps
Thallium	203-1	1123	873	873	957	15.09	cps
Thallium	205-1	2464	2287	2094	2281	8.11	cps
Tin	118-1	4165	3400	3364	3643	12.42	cps
Titanium	47-1	2200	2100	1997	2099	4.84	cps
Uranium	238-1	1883	1660	1423	1656	13.90	cps

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Inst Id :P8
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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 12:53:32	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	520	503	517	513	1.72	cps
Ytterbium	172-1	997	1030	930	986	5.17	cps
Ytterbium	172-2	497	507	457	487	5.44	cps
Ytterbium	176-1	2054	1900	2174	2042	6.71	cps
Ytterbium	176-2	587	600	543	577	5.14	cps
Yttrium	89-1	15164889	15448830	15221466	15278395	0.98	cps
Yttrium	89-2	1102307	1108158	1095607	1102024	0.57	cps
Zinc	66-2	19176	18732	19060	18989	1.21	cps
Zirconium	90-1	19991	19010	19494	19498	2.52	cps
Zirconium	91-1	4281	4191	4534	4335	4.11	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22995	22618	22087	22567	2.02	cps
Antimony	121-1	2838092	2847830	2964883	2883602	2.45	cps
Arsenic	75-2	65002	64654	64781	64813	0.27	cps
Barium	135-1	299271	309201	308833	305768	1.84	cps
Barium	137-1	518731	520716	536294	525247	1.83	cps
Beryllium	9-1	385766	390373	393637	389925	1.01	cps
Bismuth	209-1	6061898	6132298	6193550	6129249	1.07	cps
Bismuth	209-2	2898303	2922568	3001394	2940755	1.83	cps
Bromine	81-1	21203	21016	21350	21189	0.79	cps
Cadmium	108-1	22455	22973	23650	23026	2.60	cps
Cadmium	106-1	36241	36241	37635	36705	2.19	cps
Cadmium	111-1	345321	345797	352084	347734	1.09	cps
Calcium	43-1	82176	84879	85036	84030	1.91	cps
Calcium	44-1	1348674	1396815	1407925	1384471	2.27	cps
Carbon	12-1	2722925	2817272	2851119	2797105	2.38	cps
Carbon	12-2	19096	19039	18735	18957	1.02	cps
Chlorine	35-1	136167	139003	141426	138865	1.90	cps
Chlorine	35-2	580	543	457	527	12.03	cps
Chromium	52-2	282921	282878	282289	282696	0.13	cps
Cobalt	59-2	547200	548700	547031	547644	0.17	cps
Copper	63-2	436356	437634	435850	436613	0.21	cps
Dysprosium	156-1	30	17	10	19	53.91	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	93	120	80	98	20.83	cps
Erbium	164-2	13	30	27	23	37.81	cps
Gadolinium	160-1	90	100	87	92	7.52	cps
Gadolinium	160-2	17	20	33	23	37.78	cps
Holmium	165-1	10032070	10501544	10266623	10266746	2.29	cps
Holmium	165-2	4050602	3985213	3982091	4005969	0.97	cps
Indium	115-1	8956058	8981813	9197618	9045163	1.47	cps
Indium	115-2	978142	976092	975685	976640	0.13	cps
Iron	54-2	234871	233584	234451	234302	0.28	cps
Iron	56-2	4206062	4245478	4296891	4249477	1.07	cps
Iron	57-2	105225	105553	103647	104808	0.97	cps
Krypton	83-1	187	190	190	189	1.02	cps
Lead	206-1	1911461	1959113	1941051	1937208	1.24	cps

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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1493560	1538678	1559810	1530683	2.21	cps
Lead	208-1	7376482	7557741	7506861	7480361	1.25	cps
Lithium	6-1	3592364	3582055	3543285	3572568	0.72	cps
Magnesium	24-2	191358	191049	192582	191663	0.42	cps
Manganese	55-2	122463	121256	120437	121385	0.84	cps
Molybdenum	94-1	810	847	827	828	2.22	cps
Molybdenum	95-1	307	360	283	317	12.41	cps
Molybdenum	96-1	597	583	623	601	3.39	cps
Molybdenum	97-1	253	217	223	231	8.45	cps
Molybdenum	98-1	530	563	667	587	12.15	cps
Neodymium	150-1	13	17	40	23	62.27	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	162986	162062	161485	162178	0.47	cps
Phosphorus	31-2	83	87	63	78	16.23	cps
Potassium	39-2	217005	216716	215979	216567	0.24	cps
Rhodium	103-1	8681343	8936259	8767474	8795025	1.47	cps
Rhodium	103-2	3620508	3435853	3586692	3547684	2.77	cps
Scandium	45-1	6099794	6115934	5996428	6070719	1.07	cps
Scandium	45-2	117704	119216	117247	118056	0.87	cps
Selenium	82-1	47063	48862	47999	47975	1.88	cps
Selenium	77-2	770	853	940	854	9.95	cps
Selenium	78-2	3130	3004	2977	3037	2.70	cps
Silicon	28-1	541496	538711	540105	540104	0.26	cps
Silver	107-1	798164	823635	825931	815910	1.89	cps
Silver	109-1	758551	770584	776992	768709	1.22	cps
Sodium	23-2	685323	684689	680061	683358	0.42	cps
Strontium	86-1	1327	1573	1397	1432	8.88	cps
Strontium	88-1	9593	9723	9473	9597	1.30	cps
Sulfur	34-1	589651	583954	588249	587285	0.51	cps
Terbium	159-1	10583957	10672969	10767476	10674801	0.86	cps
Terbium	159-2	3945887	3961763	3898313	3935321	0.84	cps
Thallium	203-1	2403582	2433718	2425748	2421016	0.64	cps
Thallium	205-1	5653006	5544707	5634720	5610811	1.03	cps
Tin	118-1	2230	2117	2310	2219	4.38	cps
Titanium	47-1	287	260	277	274	4.91	cps
Uranium	238-1	43	60	47	50	17.64	cps

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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:26:41	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	213631	213801	212173	213202	0.42	cps
Ytterbium	172-1	63	63	97	74	25.86	cps
Ytterbium	172-2	37	67	30	44	43.95	cps
Ytterbium	176-1	1267	1453	1380	1367	6.88	cps
Ytterbium	176-2	550	583	567	567	2.94	cps
Yttrium	89-1	16799689	16592128	16934588	16775468	1.03	cps
Yttrium	89-2	1264431	1251112	1247194	1254246	0.72	cps
Zinc	66-2	98099	98778	98838	98572	0.42	cps
Zirconium	90-1	1467	1523	1523	1505	2.17	cps
Zirconium	91-1	613	740	803	719	13.46	cps

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LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1193	1243	1253	1230	2.61	cps
Antimony	121-1	29786	29879	30638	30101	1.55	cps
Arsenic	75-2	313	410	343	356	13.92	cps
Barium	135-1	31857	31978	31620	31819	0.57	cps
Barium	137-1	54288	55045	55814	55049	1.39	cps
Beryllium	9-1	4315	4490	4320	4375	2.28	cps
Bismuth	209-1	6028340	5937008	5923405	5962917	0.96	cps
Bismuth	209-2	2848118	2826735	2844893	2839915	0.41	cps
Bromine	81-1	21770	22471	22224	22155	1.61	cps
Cadmium	108-1	323	250	273	282	13.27	cps
Cadmium	106-1	5671	5651	5988	5770	3.27	cps
Cadmium	111-1	7207	7151	7441	7266	2.11	cps
Calcium	43-1	23803	24264	24157	24075	1.00	cps
Calcium	44-1	400770	406589	406227	404529	0.81	cps
Carbon	12-1	2715533	2691465	2678844	2695280	0.69	cps
Carbon	12-2	17871	17958	18311	18047	1.29	cps
Chlorine	35-1	106370	106149	106202	106240	0.11	cps
Chlorine	35-2	433	327	423	394	14.94	cps
Chromium	52-2	6555	6938	6365	6619	4.41	cps
Cobalt	59-2	6138	6131	5935	6068	1.90	cps
Copper	63-2	11104	10504	10838	10815	2.78	cps
Dysprosium	156-1	23	13	17	18	28.64	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	83	93	63	80	19.10	cps
Erbium	164-2	20	20	23	21	9.11	cps
Gadolinium	160-1	70	77	93	80	15.02	cps
Gadolinium	160-2	20	27	10	19	44.42	cps
Holmium	165-1	9935703	9958202	9996642	9963515	0.31	cps
Holmium	165-2	3896346	3970805	3867345	3911499	1.36	cps
Indium	115-1	8916353	9047030	9010337	8991240	0.75	cps
Indium	115-2	963974	962995	956334	961101	0.43	cps
Iron	54-2	7002	7172	6905	7026	1.92	cps
Iron	56-2	121203	121671	121021	121298	0.28	cps
Iron	57-2	3167	3057	3117	3114	1.77	cps
Krypton	83-1	180	150	197	176	13.47	cps
Lead	206-1	8576	8443	8630	8550	1.13	cps

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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7516	7089	7482	7362	3.22	cps
Lead	208-1	33761	33053	33841	33552	1.29	cps
Lithium	6-1	3521489	3475186	3505641	3500772	0.67	cps
Magnesium	24-2	91381	90569	91136	91029	0.46	cps
Manganese	55-2	2357	2344	2157	2286	4.89	cps
Molybdenum	94-1	30089	30103	30610	30267	0.98	cps
Molybdenum	95-1	35101	35649	36120	35623	1.43	cps
Molybdenum	96-1	39225	40315	38981	39507	1.80	cps
Molybdenum	97-1	21867	22225	22722	22271	1.93	cps
Molybdenum	98-1	55691	58021	56535	56749	2.08	cps
Neodymium	150-1	13	3	10	9	57.30	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	1597	1580	1583	1587	0.56	cps
Phosphorus	31-2	803	817	823	814	1.25	cps
Potassium	39-2	69094	69791	69938	69608	0.65	cps
Rhodium	103-1	8511115	8589564	8591928	8564203	0.54	cps
Rhodium	103-2	3530211	3486191	3501278	3505893	0.64	cps
Scandium	45-1	5920290	5882691	5948051	5917011	0.55	cps
Scandium	45-2	115570	117303	114653	115842	1.16	cps
Selenium	82-1	1260	1347	1273	1293	3.61	cps
Selenium	77-2	20	17	23	20	16.65	cps
Selenium	78-2	103	67	107	92	24.06	cps
Silicon	28-1	558354	558564	566642	561187	0.84	cps
Silver	107-1	19030	19511	19627	19389	1.63	cps
Silver	109-1	18132	18506	18469	18369	1.12	cps
Sodium	23-2	203516	206868	206706	205697	0.92	cps
Strontium	86-1	4868	4898	5004	4923	1.46	cps
Strontium	88-1	39563	40017	39994	39858	0.64	cps
Sulfur	34-1	610888	604065	608367	607773	0.57	cps
Terbium	159-1	10378280	10625081	10479478	10494280	1.18	cps
Terbium	159-2	3824735	3870137	3801084	3831985	0.92	cps
Thallium	203-1	11188	11295	11632	11372	2.04	cps
Thallium	205-1	27442	27379	27763	27528	0.75	cps
Tin	118-1	59127	59324	59408	59286	0.24	cps
Titanium	47-1	10541	11351	11204	11032	3.92	cps
Uranium	238-1	32211	33009	32080	32434	1.55	cps

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LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	LLICV01	Instrumnet Name :	P8
Client Sample ID :	LLICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:33:55	DataFile Name :	015LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11441	11214	11535	11397	1.45	cps
Ytterbium	172-1	90	100	80	90	11.11	cps
Ytterbium	172-2	30	37	10	26	54.31	cps
Ytterbium	176-1	1370	1383	1390	1381	0.74	cps
Ytterbium	176-2	470	440	377	429	11.11	cps
Yttrium	89-1	16086546	16280704	16489268	16285506	1.24	cps
Yttrium	89-2	1236403	1227698	1239107	1234403	0.48	cps
Zinc	66-2	3207	3244	3034	3161	3.55	cps
Zirconium	90-1	27364	27835	26963	27387	1.59	cps
Zirconium	91-1	6355	5938	6108	6134	3.42	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100	70	90	87	17.63	cps
Antimony	121-1	123	140	140	134	7.16	cps
Arsenic	75-2	0	20	3	8	137.80	cps
Barium	135-1	33	50	57	47	25.76	cps
Barium	137-1	103	70	83	86	19.61	cps
Beryllium	9-1	125	101	109	112	10.87	cps
Bismuth	209-1	5936128	6194684	5751119	5960644	3.74	cps
Bismuth	209-2	2823439	2848098	2824622	2832053	0.49	cps
Bromine	81-1	21844	22044	21850	21913	0.52	cps
Cadmium	108-1	13	17	7	12	41.65	cps
Cadmium	106-1	5268	5511	5401	5393	2.26	cps
Cadmium	111-1	3691	3866	3789	3782	2.32	cps
Calcium	43-1	617	673	590	627	6.79	cps
Calcium	44-1	24842	24678	23963	24494	1.91	cps
Carbon	12-1	2432895	2470319	2407407	2436873	1.30	cps
Carbon	12-2	15642	15452	15428	15507	0.76	cps
Chlorine	35-1	91815	88951	90611	90459	1.59	cps
Chlorine	35-2	373	323	280	326	14.35	cps
Chromium	52-2	647	640	573	620	6.54	cps
Cobalt	59-2	23	47	27	32	39.17	cps
Copper	63-2	1290	1393	1540	1408	8.92	cps
Dysprosium	156-1	27	7	7	13	86.58	cps
Dysprosium	156-2	3	7	3	4	43.40	cps
Erbium	164-1	77	70	57	68	15.02	cps
Erbium	164-2	23	37	7	22	67.63	cps
Gadolinium	160-1	70	73	80	74	6.84	cps
Gadolinium	160-2	10	23	13	16	44.60	cps
Holmium	165-1	9871385	9909476	9821172	9867345	0.45	cps
Holmium	165-2	3850425	3890878	3908500	3883268	0.77	cps
Indium	115-1	9143683	8993499	8762441	8966541	2.14	cps
Indium	115-2	948152	956919	949854	951641	0.49	cps
Iron	54-2	380	450	323	384	16.50	cps
Iron	56-2	4194	3877	3834	3968	4.95	cps
Iron	57-2	140	103	83	109	26.40	cps
Krypton	83-1	223	280	213	239	15.05	cps
Lead	206-1	533	530	470	511	6.97	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	423	523	473	473	10.56	cps
Lead	208-1	2107	2150	2040	2099	2.64	cps
Lithium	6-1	3491681	3511431	3515939	3506350	0.37	cps
Magnesium	24-2	687	620	677	661	5.44	cps
Manganese	55-2	803	823	790	806	2.08	cps
Molybdenum	94-1	403	380	350	378	7.08	cps
Molybdenum	95-1	127	150	93	123	23.09	cps
Molybdenum	96-1	160	173	173	169	4.56	cps
Molybdenum	97-1	77	73	60	70	12.60	cps
Molybdenum	98-1	170	203	143	172	17.45	cps
Neodymium	150-1	10	10	20	13	43.30	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	157	120	180	152	19.87	cps
Phosphorus	31-2	77	80	43	67	30.42	cps
Potassium	39-2	14547	14581	14758	14629	0.77	cps
Rhodium	103-1	8706438	8595056	8583638	8628378	0.79	cps
Rhodium	103-2	3462720	3502171	3450363	3471751	0.78	cps
Scandium	45-1	5991334	6118193	6047459	6052329	1.05	cps
Scandium	45-2	115154	114424	115378	114985	0.43	cps
Selenium	82-1	-33	-100	13	-40	-142.38	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	10	10	9	21.63	cps
Silicon	28-1	505847	507473	525997	513106	2.18	cps
Silver	107-1	220	197	193	203	7.14	cps
Silver	109-1	123	83	117	108	19.89	cps
Sodium	23-2	31471	31591	32393	31818	1.58	cps
Strontium	86-1	313	350	273	312	12.28	cps
Strontium	88-1	273	263	267	268	1.90	cps
Sulfur	34-1	592309	595089	592569	593322	0.26	cps
Terbium	159-1	10552624	10386531	10459949	10466368	0.80	cps
Terbium	159-2	3839717	3769040	3708364	3772373	1.74	cps
Thallium	203-1	160	180	223	188	17.24	cps
Thallium	205-1	420	410	360	397	8.10	cps
Tin	118-1	1783	1857	1867	1836	2.48	cps
Titanium	47-1	203	253	170	209	20.08	cps
Uranium	238-1	37	40	43	40	8.32	cps

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:40:46	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	7	3	6	34.70	cps
Ytterbium	172-1	90	83	70	81	12.55	cps
Ytterbium	172-2	27	17	23	22	22.91	cps
Ytterbium	176-1	1330	1360	1300	1330	2.26	cps
Ytterbium	176-2	360	377	367	368	2.28	cps
Yttrium	89-1	16425010	16767486	16072534	16421677	2.12	cps
Yttrium	89-2	1220190	1220275	1224115	1221527	0.18	cps
Zinc	66-2	183	323	230	246	29.03	cps
Zirconium	90-1	890	947	893	910	3.49	cps
Zirconium	91-1	157	227	150	178	23.89	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4099508	4077502	4071127	4082712	0.36	cps
Antimony	121-1	15215	15135	15302	15217	0.55	cps
Arsenic	75-2	97	73	80	83	14.43	cps
Barium	135-1	4217	4274	4221	4237	0.75	cps
Barium	137-1	7315	7215	7419	7316	1.39	cps
Beryllium	9-1	1140	1077	1142	1120	3.29	cps
Bismuth	209-1	5548988	5605766	5520375	5558376	0.78	cps
Bismuth	209-2	2536225	2566871	2600878	2567991	1.26	cps
Bromine	81-1	22391	22739	22765	22632	0.92	cps
Cadmium	108-1	3510	3414	3444	3456	1.43	cps
Cadmium	106-1	5348	5174	5058	5193	2.81	cps
Cadmium	111-1	5450	4956	5230	5212	4.75	cps
Calcium	43-1	4131417	4021779	3993884	4049027	1.80	cps
Calcium	44-1	67192764	67030472	67834882	67352706	0.63	cps
Carbon	12-1	31288295	31509064	31439743	31412367	0.36	cps
Carbon	12-2	211547	209789	210810	210715	0.42	cps
Chlorine	35-1	73637787	79881379	82701217	78740128	5.89	cps
Chlorine	35-2	354253	354776	358140	355723	0.59	cps
Chromium	52-2	53195	54202	52821	53406	1.34	cps
Cobalt	59-2	5991	6181	6015	6062	1.71	cps
Copper	63-2	30924	31759	32460	31714	2.43	cps
Dysprosium	156-1	53	43	70	56	24.25	cps
Dysprosium	156-2	13	23	20	19	26.96	cps
Erbium	164-1	107	113	107	109	3.53	cps
Erbium	164-2	33	43	23	33	30.00	cps
Gadolinium	160-1	110	177	137	141	23.78	cps
Gadolinium	160-2	17	20	43	27	54.47	cps
Holmium	165-1	9686916	9955263	9764238	9802139	1.41	cps
Holmium	165-2	3729215	3780289	3738894	3749466	0.72	cps
Indium	115-1	8446490	8271674	8510438	8409534	1.47	cps
Indium	115-2	877764	878186	875604	877185	0.16	cps
Iron	54-2	10700989	10654349	10897197	10750845	1.20	cps
Iron	56-2	201010004	202976537	202339190	202108577	0.50	cps
Iron	57-2	4961734	5077986	5065112	5034944	1.27	cps
Krypton	83-1	213	240	237	230	6.32	cps
Lead	206-1	39985	39470	39744	39733	0.65	cps

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30292	30653	31562	30836	2.12	cps
Lead	208-1	144814	147207	148746	146922	1.35	cps
Lithium	6-1	3279131	3306842	3312956	3299643	0.55	cps
Magnesium	24-2	14739564	14501206	14269678	14503483	1.62	cps
Manganese	55-2	10938	10621	10968	10842	1.77	cps
Molybdenum	94-1	7472189	7380377	7490160	7447576	0.79	cps
Molybdenum	95-1	13340258	13270096	13572270	13394208	1.18	cps
Molybdenum	96-1	14179174	14397459	14056034	14210889	1.22	cps
Molybdenum	97-1	8086534	8185557	8316418	8196170	1.41	cps
Molybdenum	98-1	20797593	21279613	21650844	21242683	2.01	cps
Neodymium	150-1	83	60	50	64	26.54	cps
Neodymium	150-2	20	13	17	17	20.01	cps
Nickel	60-2	7759	7746	7902	7802	1.11	cps
Phosphorus	31-2	257166	254809	254273	255416	0.60	cps
Potassium	39-2	9691818	9599241	9813832	9701631	1.11	cps
Rhodium	103-1	7722662	7860339	7917899	7833633	1.28	cps
Rhodium	103-2	3154968	3115709	3124408	3131695	0.66	cps
Scandium	45-1	5766315	5649617	5659315	5691749	1.14	cps
Scandium	45-2	108102	107996	108650	108249	0.32	cps
Selenium	82-1	30	-33	-17	-7	-492.24	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	13	3	13	10	57.75	cps
Silicon	28-1	769664	760559	768375	766200	0.64	cps
Silver	107-1	977	943	963	961	1.75	cps
Silver	109-1	1103	807	803	904	19.05	cps
Sodium	23-2	30675780	30630403	30959660	30755281	0.58	cps
Strontium	86-1	140030	141377	142312	141240	0.81	cps
Strontium	88-1	1223575	1233494	1250925	1235998	1.12	cps
Sulfur	34-1	6061570	5917001	5976109	5984893	1.21	cps
Terbium	159-1	10184299	10347111	10001923	10177778	1.70	cps
Terbium	159-2	3651902	3682359	3679950	3671404	0.46	cps
Thallium	203-1	1093	1473	1770	1446	23.47	cps
Thallium	205-1	2487	3624	4154	3422	24.89	cps
Tin	118-1	3971	3964	3637	3857	4.94	cps
Titanium	47-1	3840933	3900975	3932260	3891389	1.19	cps
Uranium	238-1	530	457	533	507	8.55	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:44:09	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	400	270	370	347	19.63	cps
Ytterbium	172-1	117	67	120	101	29.55	cps
Ytterbium	172-2	33	23	27	28	18.33	cps
Ytterbium	176-1	1397	1163	1197	1252	10.08	cps
Ytterbium	176-2	353	370	383	369	4.07	cps
Yttrium	89-1	15455902	15941386	15756965	15718084	1.56	cps
Yttrium	89-2	1164726	1153965	1160405	1159699	0.47	cps
Zinc	66-2	4921	5001	5284	5069	3.77	cps
Zirconium	90-1	1290	1363	1263	1306	3.97	cps
Zirconium	91-1	283	297	280	287	3.08	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4082170	3981882	3995360	4019804	1.35	cps
Antimony	121-1	282674	290771	288174	287206	1.44	cps
Arsenic	75-2	6331	6025	6275	6210	2.63	cps
Barium	135-1	62564	62852	63702	63039	0.94	cps
Barium	137-1	109492	111061	111179	110578	0.85	cps
Beryllium	9-1	72604	73136	72904	72881	0.37	cps
Bismuth	209-1	5605531	5586358	5570214	5587368	0.32	cps
Bismuth	209-2	2569143	2798205	2604579	2657309	4.64	cps
Bromine	81-1	23557	23707	24101	23788	1.18	cps
Cadmium	108-1	7425	7192	7465	7361	2.01	cps
Cadmium	106-1	10658	10574	10447	10560	1.00	cps
Cadmium	111-1	68521	68901	69337	68920	0.59	cps
Calcium	43-1	4044883	4123916	4087877	4085559	0.97	cps
Calcium	44-1	66932989	67004206	64162674	66033290	2.45	cps
Carbon	12-1	32112705	31982625	32427720	32174350	0.71	cps
Carbon	12-2	220352	217918	221301	219857	0.79	cps
Chlorine	35-1	79730744	84154512	83601462	82495573	2.92	cps
Chlorine	35-2	362226	361211	365559	362999	0.63	cps
Chromium	52-2	104498	102880	104482	103953	0.89	cps
Cobalt	59-2	107240	103607	104151	104999	1.87	cps
Copper	63-2	108732	107584	109928	108748	1.08	cps
Dysprosium	156-1	100	53	60	71	35.50	cps
Dysprosium	156-2	23	7	23	18	54.11	cps
Erbium	164-1	93	147	110	117	23.39	cps
Erbium	164-2	57	47	43	49	14.20	cps
Gadolinium	160-1	97	120	153	123	23.09	cps
Gadolinium	160-2	23	27	37	29	24.03	cps
Holmium	165-1	9584305	9794303	9784348	9720985	1.22	cps
Holmium	165-2	3673615	4180790	3886796	3913734	6.51	cps
Indium	115-1	8495253	8556982	8501433	8517889	0.40	cps
Indium	115-2	872241	972078	902599	915639	5.59	cps
Iron	54-2	10726345	10602908	10758737	10695997	0.77	cps
Iron	56-2	197204310	194817997	200064584	197362297	1.33	cps
Iron	57-2	4949584	4991231	4991167	4977327	0.48	cps
Krypton	83-1	263	297	267	276	6.66	cps
Lead	206-1	216871	218550	215338	216920	0.74	cps

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	178851	181035	181195	180360	0.73	cps
Lead	208-1	829696	842276	831208	834393	0.82	cps
Lithium	6-1	3269010	3250199	3264169	3261126	0.30	cps
Magnesium	24-2	14185985	14173495	14479476	14279652	1.21	cps
Manganese	55-2	31401	31648	31054	31368	0.95	cps
Molybdenum	94-1	7323634	7573997	7386233	7427955	1.75	cps
Molybdenum	95-1	12932899	13300098	13168772	13133923	1.42	cps
Molybdenum	96-1	13926066	13826103	14110959	13954376	1.04	cps
Molybdenum	97-1	8056906	8113431	8142002	8104113	0.53	cps
Molybdenum	98-1	21077050	21477130	21630722	21394967	1.34	cps
Neodymium	150-1	37	70	30	46	47.04	cps
Neodymium	150-2	13	7	20	13	49.99	cps
Nickel	60-2	34382	34365	34392	34379	0.04	cps
Phosphorus	31-2	255240	249269	255701	253403	1.42	cps
Potassium	39-2	9471118	9625465	9661041	9585875	1.05	cps
Rhodium	103-1	7911399	7809175	7870784	7863786	0.65	cps
Rhodium	103-2	3109181	3371495	3244670	3241782	4.05	cps
Scandium	45-1	5630207	5762428	5792953	5728529	1.51	cps
Scandium	45-2	106390	119167	111532	112363	5.72	cps
Selenium	82-1	4508	4417	4528	4484	1.31	cps
Selenium	77-2	37	100	87	74	44.85	cps
Selenium	78-2	317	237	280	278	14.42	cps
Silicon	28-1	764288	756091	765603	761994	0.68	cps
Silver	107-1	303092	305596	308138	305608	0.83	cps
Silver	109-1	287542	289914	292461	289972	0.85	cps
Sodium	23-2	29777290	30274225	29854270	29968595	0.89	cps
Strontium	86-1	140569	143151	142871	142197	1.00	cps
Strontium	88-1	1221497	1243540	1231949	1232329	0.89	cps
Sulfur	34-1	5952745	5962033	5953904	5956227	0.08	cps
Terbium	159-1	9991098	10240746	10336757	10189534	1.75	cps
Terbium	159-2	3668965	4076765	3677779	3807836	6.12	cps
Thallium	203-1	205034	208949	209717	207900	1.21	cps
Thallium	205-1	490951	502080	492215	495082	1.23	cps
Tin	118-1	3464	3711	3490	3555	3.81	cps
Titanium	47-1	3838309	3838183	3787104	3821199	0.77	cps
Uranium	238-1	813	837	913	854	6.12	cps

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:47:20	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40918	39441	40494	40284	1.89	cps
Ytterbium	172-1	83	87	110	93	15.57	cps
Ytterbium	172-2	37	33	40	37	9.10	cps
Ytterbium	176-1	1140	1267	1207	1205	5.26	cps
Ytterbium	176-2	320	353	430	368	15.34	cps
Yttrium	89-1	15860894	16071119	15652740	15861584	1.32	cps
Yttrium	89-2	1147621	1330326	1191026	1222991	7.81	cps
Zinc	66-2	13687	13460	13773	13640	1.19	cps
Zirconium	90-1	1217	1290	1347	1285	5.07	cps
Zirconium	91-1	310	393	317	340	13.62	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2170856	2220825	2213347	2201676	1.22	cps
Antimony	121-1	6962290	7060169	6881844	6968101	1.28	cps
Arsenic	75-2	150456	152633	154213	152434	1.24	cps
Barium	135-1	7568462	7758648	7317360	7548157	2.93	cps
Barium	137-1	12669699	12696946	13035787	12800811	1.59	cps
Beryllium	9-1	1613732	1632680	1658277	1634897	1.37	cps
Bismuth	209-1	5311306	5352292	5426972	5363523	1.09	cps
Bismuth	209-2	2400524	2491618	2548351	2480164	3.01	cps
Bromine	81-1	22168	21994	22355	22172	0.81	cps
Cadmium	108-1	127537	128976	129484	128666	0.79	cps
Cadmium	106-1	186880	189702	190465	189016	1.00	cps
Cadmium	111-1	1605755	1577128	1626090	1602991	1.53	cps
Calcium	43-1	9615947	9599268	9573217	9596144	0.22	cps
Calcium	44-1	155151024	156816854	157909888	156625922	0.89	cps
Carbon	12-1	2886139	2879375	2925074	2896863	0.85	cps
Carbon	12-2	21736	21993	22417	22049	1.56	cps
Chlorine	35-1	3505454	3256207	3093208	3284956	6.32	cps
Chlorine	35-2	11311	10777	10250	10780	4.92	cps
Chromium	52-2	1287182	1298477	1299204	1294955	0.52	cps
Cobalt	59-2	2467662	2457057	2483272	2469330	0.53	cps
Copper	63-2	19412666	19799255	19446774	19552898	1.09	cps
Dysprosium	156-1	433	487	433	451	6.83	cps
Dysprosium	156-2	93	87	87	89	4.33	cps
Erbium	164-1	450	397	393	413	7.69	cps
Erbium	164-2	113	190	133	146	27.32	cps
Gadolinium	160-1	290	283	370	314	15.34	cps
Gadolinium	160-2	130	140	120	130	7.69	cps
Holmium	165-1	9511943	9729067	9873534	9704848	1.88	cps
Holmium	165-2	3724578	3774525	3757661	3752255	0.68	cps
Indium	115-1	8121214	8073121	8143525	8112620	0.44	cps
Indium	115-2	823796	834874	831733	830134	0.69	cps
Iron	54-2	13303440	13400776	13765998	13490071	1.81	cps
Iron	56-2	249719203	261375709	253369636	254821516	2.34	cps
Iron	57-2	6277521	6421870	6422144	6373845	1.31	cps
Krypton	83-1	193	253	217	221	13.68	cps
Lead	206-1	21081967	22210868	21525391	21606075	2.63	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18345377	18682396	18622991	18550255	0.97	cps
Lead	208-1	82768125	85658100	85697919	84708048	1.98	cps
Lithium	6-1	3098204	3066017	3046830	3070350	0.85	cps
Magnesium	24-2	36678950	36336879	36276921	36430917	0.60	cps
Manganese	55-2	5511840	5571638	5542205	5541894	0.54	cps
Molybdenum	94-1	22980507	23609684	23360792	23316994	1.36	cps
Molybdenum	95-1	33550854	33284752	33697576	33511061	0.62	cps
Molybdenum	96-1	36524895	35768595	36293200	36195564	1.07	cps
Molybdenum	97-1	20412480	20436403	20761166	20536683	0.95	cps
Molybdenum	98-1	53744789	53781956	54098766	53875170	0.36	cps
Neodymium	150-1	687	713	747	716	4.20	cps
Neodymium	150-2	57	87	73	72	20.81	cps
Nickel	60-2	642901	645708	653222	647277	0.82	cps
Phosphorus	31-2	24815	24331	25005	24717	1.41	cps
Potassium	39-2	12392644	12283627	12337458	12337910	0.44	cps
Rhodium	103-1	7170617	7284414	7561611	7338881	2.74	cps
Rhodium	103-2	3049899	2941031	2989479	2993470	1.82	cps
Scandium	45-1	5577591	5511936	5589029	5559519	0.75	cps
Scandium	45-2	104188	107136	105793	105706	1.40	cps
Selenium	82-1	107416	108464	107688	107856	0.50	cps
Selenium	77-2	1937	2100	1917	1985	5.07	cps
Selenium	78-2	6518	6522	6795	6612	2.40	cps
Silicon	28-1	42446004	43240244	43827508	43171252	1.61	cps
Silver	107-1	7911561	8040877	7921010	7957816	0.91	cps
Silver	109-1	7472266	7535851	7501381	7503166	0.42	cps
Sodium	23-2	69136117	69461724	71236147	69944663	1.62	cps
Strontium	86-1	2127263	2146430	2144387	2139360	0.49	cps
Strontium	88-1	18182850	18017041	18654493	18284795	1.81	cps
Sulfur	34-1	1073808	1058478	1057290	1063192	0.87	cps
Terbium	159-1	9930282	10134308	10219095	10094562	1.47	cps
Terbium	159-2	3496279	3559911	3659275	3571822	2.30	cps
Thallium	203-1	5300973	5459237	5412972	5391061	1.51	cps
Thallium	205-1	12084674	12662123	12329948	12358915	2.34	cps
Tin	118-1	5354679	5297870	5428826	5360458	1.23	cps
Titanium	47-1	9287138	9393988	9239186	9306770	0.85	cps
Uranium	238-1	15520681	16117064	15993255	15877000	1.98	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:50:37	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1007437	1021858	1022821	1017372	0.85	cps
Ytterbium	172-1	503	503	557	521	5.91	cps
Ytterbium	172-2	210	247	187	214	14.10	cps
Ytterbium	176-1	26991	28237	28224	27817	2.57	cps
Ytterbium	176-2	10554	10574	10251	10460	1.73	cps
Yttrium	89-1	15486313	15323060	15530966	15446780	0.71	cps
Yttrium	89-2	1121248	1118158	1132554	1123987	0.67	cps
Zinc	66-2	2259658	2337587	2332982	2310076	1.89	cps
Zirconium	90-1	11314468	12064026	11665149	11681214	3.21	cps
Zirconium	91-1	2616013	2615835	2655727	2629192	0.87	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	140	123	103	122	15.02	cps
Antimony	121-1	1930	1667	1597	1731	10.15	cps
Arsenic	75-2	13	10	3	9	57.30	cps
Barium	135-1	150	133	147	143	6.15	cps
Barium	137-1	313	280	187	260	25.25	cps
Beryllium	9-1	384	337	355	359	6.51	cps
Bismuth	209-1	5897645	6042763	6062347	6000919	1.50	cps
Bismuth	209-2	2799194	2790719	2825529	2805147	0.65	cps
Bromine	81-1	21991	21860	21804	21885	0.44	cps
Cadmium	108-1	23	27	17	22	22.91	cps
Cadmium	106-1	4998	5381	5404	5261	4.34	cps
Cadmium	111-1	3559	3821	3805	3728	3.95	cps
Calcium	43-1	837	683	730	750	10.48	cps
Calcium	44-1	26414	26247	25867	26176	1.07	cps
Carbon	12-1	2395306	2354521	2298936	2349588	2.06	cps
Carbon	12-2	15311	15492	15528	15444	0.75	cps
Chlorine	35-1	1367400	1265994	1179024	1270806	7.42	cps
Chlorine	35-2	4374	4157	4131	4221	3.16	cps
Chromium	52-2	600	663	557	607	8.84	cps
Cobalt	59-2	70	73	67	70	4.76	cps
Copper	63-2	1780	1707	1710	1732	2.39	cps
Dysprosium	156-1	13	10	10	11	17.30	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	120	63	93	92	30.74	cps
Erbium	164-2	17	27	33	26	32.81	cps
Gadolinium	160-1	77	70	93	80	15.02	cps
Gadolinium	160-2	10	7	10	9	21.63	cps
Holmium	165-1	10048287	9678706	9850411	9859135	1.88	cps
Holmium	165-2	3940087	3827040	3819245	3862124	1.75	cps
Indium	115-1	8914317	8868026	9010059	8930800	0.81	cps
Indium	115-2	919365	915875	929332	921524	0.76	cps
Iron	54-2	610	570	600	593	3.51	cps
Iron	56-2	8019	7562	7325	7635	4.62	cps
Iron	57-2	180	147	203	177	16.12	cps
Krypton	83-1	180	177	180	179	1.07	cps
Lead	206-1	1570	1343	1280	1398	10.91	cps

Reviewed By:Janvi
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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1363	1270	1120	1251	9.81	cps
Lead	208-1	6054	5454	5144	5551	8.34	cps
Lithium	6-1	3374690	3383006	3367356	3375017	0.23	cps
Magnesium	24-2	1017	823	770	870	14.92	cps
Manganese	55-2	817	953	867	879	7.87	cps
Molybdenum	94-1	1310	1117	993	1140	14.00	cps
Molybdenum	95-1	1097	1050	897	1014	10.31	cps
Molybdenum	96-1	1357	1180	1103	1213	10.71	cps
Molybdenum	97-1	680	610	533	608	12.07	cps
Molybdenum	98-1	1840	1530	1270	1547	18.45	cps
Neodymium	150-1	17	13	7	12	41.65	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	143	130	137	137	4.88	cps
Phosphorus	31-2	63	47	77	62	24.16	cps
Potassium	39-2	15532	15592	15265	15463	1.13	cps
Rhodium	103-1	8416521	8270311	8372952	8353261	0.90	cps
Rhodium	103-2	3508000	3550969	3412924	3490631	2.02	cps
Scandium	45-1	5741151	5857176	5931728	5843352	1.64	cps
Scandium	45-2	110477	110383	109930	110263	0.27	cps
Selenium	82-1	50	50	47	49	3.94	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	7	17	30	18	65.83	cps
Silicon	28-1	497565	497039	547584	514063	5.65	cps
Silver	107-1	797	737	653	729	9.88	cps
Silver	109-1	733	617	593	648	11.58	cps
Sodium	23-2	38812	38892	39166	38956	0.48	cps
Strontium	86-1	343	363	433	380	12.44	cps
Strontium	88-1	573	450	450	491	14.50	cps
Sulfur	34-1	551809	559379	558876	556688	0.76	cps
Terbium	159-1	10412859	10428652	10368453	10403321	0.30	cps
Terbium	159-2	3785427	3725791	3779588	3763602	0.87	cps
Thallium	203-1	707	587	687	660	9.74	cps
Thallium	205-1	1793	1573	1590	1652	7.41	cps
Tin	118-1	1870	1777	1880	1842	3.09	cps
Titanium	47-1	493	443	463	467	5.39	cps
Uranium	238-1	300	237	207	248	19.23	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 13:54:04	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	10	7	11	45.82	cps
Ytterbium	172-1	73	70	77	73	4.55	cps
Ytterbium	172-2	33	53	27	38	36.73	cps
Ytterbium	176-1	1267	1457	1310	1345	7.41	cps
Ytterbium	176-2	373	323	327	341	8.20	cps
Yttrium	89-1	16161266	16245704	16171545	16192839	0.28	cps
Yttrium	89-2	1192691	1177518	1193642	1187951	0.76	cps
Zinc	66-2	337	283	283	301	10.23	cps
Zirconium	90-1	1967	1863	1647	1826	8.95	cps
Zirconium	91-1	380	333	390	368	8.22	cps

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Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	873	983	953	937	6.07	cps
Antimony	121-1	26008	26112	26229	26116	0.42	cps
Arsenic	75-2	353	273	257	294	17.55	cps
Barium	135-1	27164	27926	27932	27674	1.60	cps
Barium	137-1	47296	47794	48022	47704	0.78	cps
Beryllium	9-1	3771	3708	3779	3753	1.04	cps
Bismuth	209-1	5852184	6020678	6007739	5960201	1.57	cps
Bismuth	209-2	2772505	2801599	2778793	2784299	0.55	cps
Bromine	81-1	21463	21487	21457	21469	0.07	cps
Cadmium	108-1	260	240	257	252	4.25	cps
Cadmium	106-1	5388	5745	5658	5597	3.32	cps
Cadmium	111-1	6633	6727	6561	6640	1.25	cps
Calcium	43-1	19860	20929	20475	20421	2.63	cps
Calcium	44-1	337135	343145	342949	341076	1.00	cps
Carbon	12-1	2528919	2504380	2519024	2517441	0.49	cps
Carbon	12-2	16813	16259	16880	16651	2.05	cps
Chlorine	35-1	475689	462799	442664	460384	3.62	cps
Chlorine	35-2	1690	1533	1667	1630	5.19	cps
Chromium	52-2	5665	5648	5675	5662	0.24	cps
Cobalt	59-2	4864	5161	5211	5079	3.69	cps
Copper	63-2	9360	9186	9543	9363	1.91	cps
Dysprosium	156-1	17	17	10	14	26.66	cps
Dysprosium	156-2	3	10	0	4	114.60	cps
Erbium	164-1	107	70	67	81	27.36	cps
Erbium	164-2	30	17	20	22	31.22	cps
Gadolinium	160-1	87	73	100	87	15.39	cps
Gadolinium	160-2	20	23	13	19	26.96	cps
Holmium	165-1	9896400	9870816	10135875	9967697	1.47	cps
Holmium	165-2	3836332	3811672	3892116	3846706	1.07	cps
Indium	115-1	8965881	8792872	8758093	8838949	1.26	cps
Indium	115-2	919024	930401	926130	925185	0.62	cps
Iron	54-2	5805	5768	5878	5817	0.96	cps
Iron	56-2	102095	102156	102444	102232	0.18	cps
Iron	57-2	2654	2587	2440	2560	4.26	cps
Krypton	83-1	220	173	220	204	13.18	cps
Lead	206-1	7562	7302	7496	7453	1.81	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6532	6648	6372	6517	2.13	cps
Lead	208-1	29563	29790	29660	29671	0.38	cps
Lithium	6-1	3382641	3459838	3417582	3420020	1.13	cps
Magnesium	24-2	77186	76536	76305	76676	0.60	cps
Manganese	55-2	1937	1937	1913	1929	0.70	cps
Molybdenum	94-1	26826	26405	26939	26723	1.05	cps
Molybdenum	95-1	30851	31265	31469	31195	1.01	cps
Molybdenum	96-1	34506	34833	34576	34639	0.50	cps
Molybdenum	97-1	19310	19110	19788	19403	1.79	cps
Molybdenum	98-1	49826	49635	49672	49711	0.20	cps
Neodymium	150-1	13	3	17	11	62.48	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1393	1403	1337	1378	2.61	cps
Phosphorus	31-2	687	660	647	664	3.07	cps
Potassium	39-2	60627	60382	60791	60600	0.34	cps
Rhodium	103-1	8208981	8393876	8376671	8326509	1.23	cps
Rhodium	103-2	3400988	3427067	3431915	3419990	0.49	cps
Scandium	45-1	5877919	5897259	5809767	5861648	0.78	cps
Scandium	45-2	109792	110689	111313	110598	0.69	cps
Selenium	82-1	1010	1083	1107	1067	4.73	cps
Selenium	77-2	13	20	17	17	20.01	cps
Selenium	78-2	60	80	80	73	15.75	cps
Silicon	28-1	557478	540555	540940	546324	1.77	cps
Silver	107-1	16667	17111	17014	16930	1.38	cps
Silver	109-1	15142	15859	16063	15688	3.08	cps
Sodium	23-2	180772	180306	181998	181025	0.48	cps
Strontium	86-1	4337	4127	4394	4286	3.28	cps
Strontium	88-1	34556	34269	35381	34735	1.66	cps
Sulfur	34-1	583064	586971	585797	585277	0.34	cps
Terbium	159-1	10605208	10541400	10444083	10530231	0.77	cps
Terbium	159-2	3739842	3711083	3659056	3703327	1.11	cps
Thallium	203-1	10181	10368	10438	10329	1.29	cps
Thallium	205-1	24480	24937	24844	24754	0.98	cps
Tin	118-1	51456	51319	51323	51366	0.15	cps
Titanium	47-1	9310	9530	9860	9567	2.90	cps
Uranium	238-1	28261	28619	29270	28717	1.78	cps

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:01:58	DataFile Name :	023LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9723	9567	9673	9654	0.83	cps
Ytterbium	172-1	93	97	43	78	38.42	cps
Ytterbium	172-2	50	30	43	41	24.77	cps
Ytterbium	176-1	1283	1400	1313	1332	4.55	cps
Ytterbium	176-2	400	390	360	383	5.43	cps
Yttrium	89-1	16071136	16253714	16261658	16195503	0.67	cps
Yttrium	89-2	1177068	1183952	1182401	1181140	0.31	cps
Zinc	66-2	2537	2357	2594	2496	4.95	cps
Zirconium	90-1	23664	24057	24525	24082	1.79	cps
Zirconium	91-1	5458	5514	5544	5506	0.80	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	749972	753483	738377	747277	1.06	cps
Antimony	121-1	620	670	617	636	4.70	cps
Arsenic	75-2	1680	1873	1750	1768	5.54	cps
Barium	135-1	68184	70549	69550	69428	1.71	cps
Barium	137-1	119159	122203	121288	120883	1.29	cps
Beryllium	9-1	9546	9668	9603	9606	0.64	cps
Bismuth	209-1	6052946	5924734	5833382	5937021	1.86	cps
Bismuth	209-2	2661432	2691166	2692595	2681731	0.66	cps
Bromine	81-1	24779	24982	24308	24690	1.40	cps
Cadmium	108-1	520	493	543	519	4.82	cps
Cadmium	106-1	6432	6565	6545	6514	1.10	cps
Cadmium	111-1	10740	11109	11136	10995	2.01	cps
Calcium	43-1	1762103	1727806	1759377	1749762	1.09	cps
Calcium	44-1	27563484	28660400	28489150	28237678	2.09	cps
Carbon	12-1	3476588	3546488	3615355	3546144	1.96	cps
Carbon	12-2	24641	24918	24370	24643	1.11	cps
Chlorine	35-1	487037	492464	490444	489982	0.56	cps
Chlorine	35-2	1887	1883	1957	1909	2.17	cps
Chromium	52-2	23409	23025	22855	23096	1.23	cps
Cobalt	59-2	274269	276469	271865	274201	0.84	cps
Copper	63-2	234670	236232	232088	234330	0.89	cps
Dysprosium	156-1	187767	187976	189538	188427	0.51	cps
Dysprosium	156-2	50836	51452	50923	51070	0.65	cps
Erbium	164-1	132822	135657	136842	135107	1.53	cps
Erbium	164-2	48735	47916	48505	48385	0.87	cps
Gadolinium	160-1	135305	135006	134904	135072	0.15	cps
Gadolinium	160-2	56897	57235	57516	57216	0.54	cps
Holmium	165-1	10069279	10072622	10139659	10093853	0.39	cps
Holmium	165-2	3863965	3851460	3801162	3838862	0.87	cps
Indium	115-1	8876544	8719446	8826882	8807624	0.91	cps
Indium	115-2	896546	905219	891104	897623	0.79	cps
Iron	54-2	350916	352301	345418	349545	1.04	cps
Iron	56-2	6535625	6520107	6440286	6498673	0.79	cps
Iron	57-2	163523	163209	160135	162289	1.15	cps
Krypton	83-1	293	347	363	334	10.93	cps
Lead	206-1	66895	69049	68095	68013	1.59	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	56061	55418	56024	55834	0.65	cps
Lead	208-1	257335	260726	261169	259744	0.81	cps
Lithium	6-1	3462029	3348409	3454433	3421624	1.86	cps
Magnesium	24-2	1118233	1135694	1123689	1125872	0.79	cps
Manganese	55-2	4220449	4200527	4088387	4169788	1.71	cps
Molybdenum	94-1	1700	1950	2064	1905	9.76	cps
Molybdenum	95-1	593	587	613	598	2.32	cps
Molybdenum	96-1	780	633	697	703	10.46	cps
Molybdenum	97-1	210	203	223	212	4.80	cps
Molybdenum	98-1	550	543	493	529	5.86	cps
Neodymium	150-1	189957	196887	194604	193816	1.82	cps
Neodymium	150-2	50167	50384	48491	49680	2.09	cps
Nickel	60-2	62189	62667	62413	62423	0.38	cps
Phosphorus	31-2	2084	1917	1913	1971	4.93	cps
Potassium	39-2	839320	831253	834747	835107	0.48	cps
Rhodium	103-1	8264298	8223509	8278757	8255522	0.35	cps
Rhodium	103-2	3320737	3275160	3250656	3282184	1.08	cps
Scandium	45-1	5911659	5989664	5814553	5905292	1.49	cps
Scandium	45-2	107156	106212	107979	107116	0.83	cps
Selenium	82-1	313	263	260	279	10.71	cps
Selenium	77-2	193	167	190	183	7.93	cps
Selenium	78-2	127	133	150	137	8.79	cps
Silicon	28-1	69501077	68700621	68876039	69025912	0.61	cps
Silver	107-1	510	480	467	486	4.57	cps
Silver	109-1	387	353	360	367	4.81	cps
Sodium	23-2	871069	865886	859191	865382	0.69	cps
Strontium	86-1	577367	574145	575686	575733	0.28	cps
Strontium	88-1	5310657	5064514	5141795	5172322	2.43	cps
Sulfur	34-1	4030845	4007947	3905028	3981273	1.68	cps
Terbium	159-1	10355579	10532642	10608817	10499013	1.24	cps
Terbium	159-2	3586646	3719513	3659877	3655345	1.82	cps
Thallium	203-1	2010	2020	2090	2040	2.14	cps
Thallium	205-1	4891	4974	4584	4817	4.27	cps
Tin	118-1	2454	2360	2400	2405	1.95	cps
Titanium	47-1	3167	3057	2920	3048	4.05	cps
Uranium	238-1	34631	34968	34440	34680	0.77	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:05:21	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	28258	28131	27663	28018	1.12	cps
Ytterbium	172-1	32928	33860	33128	33305	1.47	cps
Ytterbium	172-2	14595	14605	14665	14622	0.26	cps
Ytterbium	176-1	21084	21731	21711	21509	1.71	cps
Ytterbium	176-2	9210	9557	9543	9437	2.08	cps
Yttrium	89-1	19073358	19044115	18738348	18951940	0.98	cps
Yttrium	89-2	1340677	1339823	1340324	1340275	0.03	cps
Zinc	66-2	161593	162892	158074	160853	1.55	cps
Zirconium	90-1	4424	4621	4397	4481	2.72	cps
Zirconium	91-1	970	1000	927	966	3.82	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	740053	740181	722177	734137	1.41	cps
Antimony	121-1	400	433	420	418	4.02	cps
Arsenic	75-2	1533	1703	1697	1645	5.86	cps
Barium	135-1	67437	69568	68073	68359	1.60	cps
Barium	137-1	118134	119580	118339	118684	0.66	cps
Beryllium	9-1	9287	9329	9220	9279	0.59	cps
Bismuth	209-1	5967771	5999140	5882224	5949712	1.02	cps
Bismuth	209-2	2640687	2693896	2681302	2671962	1.04	cps
Bromine	81-1	24201	24231	23690	24041	1.26	cps
Cadmium	108-1	417	473	513	468	10.38	cps
Cadmium	106-1	6408	6545	6211	6388	2.62	cps
Cadmium	111-1	10749	10885	10517	10717	1.74	cps
Calcium	43-1	1704001	1707270	1744072	1718448	1.29	cps
Calcium	44-1	27557251	27787866	27037293	27460803	1.40	cps
Carbon	12-1	3444674	3528871	3543548	3505698	1.52	cps
Carbon	12-2	24320	24514	24120	24318	0.81	cps
Chlorine	35-1	425782	434222	435144	431716	1.20	cps
Chlorine	35-2	1780	1933	1823	1846	4.28	cps
Chromium	52-2	23286	23696	23800	23594	1.15	cps
Cobalt	59-2	270735	270796	266583	269372	0.90	cps
Copper	63-2	227440	232799	227409	229216	1.35	cps
Dysprosium	156-1	181902	184630	183333	183288	0.74	cps
Dysprosium	156-2	50184	50482	50712	50459	0.53	cps
Erbium	164-1	133112	134323	135930	134455	1.05	cps
Erbium	164-2	47698	47434	47267	47467	0.46	cps
Gadolinium	160-1	132683	134187	133144	133338	0.58	cps
Gadolinium	160-2	56368	57108	55943	56473	1.04	cps
Holmium	165-1	9958991	9930653	10029939	9973194	0.51	cps
Holmium	165-2	3801106	3824343	3730175	3785208	1.30	cps
Indium	115-1	8624867	8706502	8787381	8706250	0.93	cps
Indium	115-2	897369	894486	885577	892478	0.69	cps
Iron	54-2	342042	344302	339170	341838	0.75	cps
Iron	56-2	6392283	6414699	6390849	6399277	0.21	cps
Iron	57-2	159366	160303	157237	158969	0.99	cps
Krypton	83-1	377	327	353	352	7.10	cps
Lead	206-1	65454	65856	65806	65705	0.33	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	55773	54276	53855	54635	1.84	cps
Lead	208-1	254905	254327	255327	254853	0.20	cps
Lithium	6-1	3431803	3370799	3393262	3398621	0.91	cps
Magnesium	24-2	1087707	1099759	1092352	1093272	0.56	cps
Manganese	55-2	4083458	4083474	4055225	4074052	0.40	cps
Molybdenum	94-1	1530	1737	1637	1635	6.32	cps
Molybdenum	95-1	547	657	660	621	10.38	cps
Molybdenum	96-1	717	717	743	726	2.12	cps
Molybdenum	97-1	230	200	250	227	11.10	cps
Molybdenum	98-1	553	553	470	526	9.16	cps
Neodymium	150-1	186032	193134	190750	189972	1.90	cps
Neodymium	150-2	49708	48611	48638	48986	1.28	cps
Nickel	60-2	61174	62928	61817	61973	1.43	cps
Phosphorus	31-2	1843	1840	1900	1861	1.81	cps
Potassium	39-2	828475	829341	824126	827314	0.34	cps
Rhodium	103-1	8337586	8302028	8311621	8317078	0.22	cps
Rhodium	103-2	3286292	3253561	3186701	3242185	1.57	cps
Scandium	45-1	5705236	5774498	5650403	5710046	1.09	cps
Scandium	45-2	106625	108818	106361	107268	1.26	cps
Selenium	82-1	223	263	290	259	12.96	cps
Selenium	77-2	183	177	240	200	17.40	cps
Selenium	78-2	147	113	143	134	13.65	cps
Silicon	28-1	68256122	68138336	66523331	67639263	1.43	cps
Silver	107-1	370	367	417	384	7.27	cps
Silver	109-1	230	300	213	248	18.56	cps
Sodium	23-2	858744	851791	851834	854123	0.47	cps
Strontium	86-1	565142	571230	566159	567511	0.57	cps
Strontium	88-1	5145900	5075929	5197448	5139759	1.19	cps
Sulfur	34-1	3868074	3864402	3798385	3843620	1.02	cps
Terbium	159-1	10511373	10407854	10136955	10352061	1.87	cps
Terbium	159-2	3603051	3649713	3576554	3609773	1.03	cps
Thallium	203-1	1930	1997	1853	1927	3.72	cps
Thallium	205-1	4568	4591	4678	4612	1.26	cps
Tin	118-1	2067	1984	1870	1974	5.00	cps
Titanium	47-1	3017	3027	2747	2930	5.42	cps
Uranium	238-1	33558	34604	34306	34156	1.58	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:08:39	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27917	27707	27680	27768	0.47	cps
Ytterbium	172-1	32530	33599	33148	33092	1.62	cps
Ytterbium	172-2	14254	14481	14201	14312	1.04	cps
Ytterbium	176-1	21491	20923	21324	21246	1.37	cps
Ytterbium	176-2	9000	9433	8823	9085	3.46	cps
Yttrium	89-1	18612298	18722839	18518254	18617797	0.55	cps
Yttrium	89-2	1333122	1332139	1338798	1334686	0.27	cps
Zinc	66-2	156103	156335	156726	156388	0.20	cps
Zirconium	90-1	4294	4467	4237	4333	2.77	cps
Zirconium	91-1	1053	1003	940	999	5.69	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	157844	159421	155609	157625	1.22	cps
Antimony	121-1	667	563	677	636	9.87	cps
Arsenic	75-2	357	330	420	369	12.53	cps
Barium	135-1	14448	14408	14765	14540	1.35	cps
Barium	137-1	24779	25113	24930	24941	0.67	cps
Beryllium	9-1	2112	2112	2120	2115	0.20	cps
Bismuth	209-1	5952428	5991420	6082615	6008821	1.11	cps
Bismuth	209-2	2671859	2766749	2749423	2729344	1.85	cps
Bromine	81-1	21580	22047	21189	21606	1.99	cps
Cadmium	108-1	167	120	130	139	17.69	cps
Cadmium	106-1	5278	5268	5358	5301	0.93	cps
Cadmium	111-1	4951	5154	5083	5063	2.03	cps
Calcium	43-1	357340	364053	360303	360565	0.93	cps
Calcium	44-1	5898344	5903605	5898260	5900070	0.05	cps
Carbon	12-1	2631179	2655214	2648243	2644879	0.47	cps
Carbon	12-2	17744	17808	17434	17662	1.13	cps
Chlorine	35-1	285969	284394	279803	283389	1.13	cps
Chlorine	35-2	1103	1167	1023	1098	6.54	cps
Chromium	52-2	5328	5201	5518	5349	2.98	cps
Cobalt	59-2	57552	57064	57954	57523	0.77	cps
Copper	63-2	50493	49851	51111	50485	1.25	cps
Dysprosium	156-1	38686	38445	39374	38835	1.24	cps
Dysprosium	156-2	10447	10601	10444	10498	0.85	cps
Erbium	164-1	27836	28367	28835	28346	1.76	cps
Erbium	164-2	10084	10007	9730	9940	1.87	cps
Gadolinium	160-1	28096	28771	28066	28311	1.41	cps
Gadolinium	160-2	11849	11895	12209	11984	1.64	cps
Holmium	165-1	9997321	10098059	9966907	10020763	0.69	cps
Holmium	165-2	3785553	3716266	3731468	3744429	0.97	cps
Indium	115-1	8903723	8939367	8926021	8923037	0.20	cps
Indium	115-2	901237	903316	905062	903205	0.21	cps
Iron	54-2	74516	72981	73672	73723	1.04	cps
Iron	56-2	1404642	1361231	1386015	1383963	1.57	cps
Iron	57-2	33723	34191	34602	34172	1.29	cps
Krypton	83-1	250	193	223	222	12.76	cps
Lead	206-1	14732	14418	14605	14585	1.08	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11615	12286	11932	11945	2.81	cps
Lead	208-1	55046	55803	55978	55609	0.89	cps
Lithium	6-1	3371988	3356453	3394358	3374266	0.56	cps
Magnesium	24-2	240992	244086	240234	241771	0.84	cps
Manganese	55-2	861914	850036	865754	859234	0.95	cps
Molybdenum	94-1	743	587	620	650	12.70	cps
Molybdenum	95-1	203	210	233	216	7.31	cps
Molybdenum	96-1	303	230	317	283	16.47	cps
Molybdenum	97-1	87	97	77	87	11.54	cps
Molybdenum	98-1	247	270	270	262	5.14	cps
Neodymium	150-1	39668	39859	40314	39947	0.83	cps
Neodymium	150-2	10504	10407	9754	10222	3.99	cps
Nickel	60-2	13537	13346	13086	13323	1.70	cps
Phosphorus	31-2	520	427	523	490	11.20	cps
Potassium	39-2	190663	188879	188532	189358	0.60	cps
Rhodium	103-1	8235640	8569787	8326428	8377285	2.06	cps
Rhodium	103-2	3358771	3400270	3417895	3392312	0.89	cps
Scandium	45-1	5902143	5701840	5667707	5757230	2.20	cps
Scandium	45-2	109208	108777	110618	109534	0.88	cps
Selenium	82-1	13	100	63	59	73.87	cps
Selenium	77-2	60	47	27	44	37.74	cps
Selenium	78-2	77	50	50	59	26.15	cps
Silicon	28-1	14683199	14624287	14855208	14720898	0.82	cps
Silver	107-1	180	227	187	198	12.76	cps
Silver	109-1	110	110	110	110	0.00	cps
Sodium	23-2	210950	212853	211157	211653	0.49	cps
Strontium	86-1	118991	119798	120370	119720	0.58	cps
Strontium	88-1	1035556	1043936	1054339	1044610	0.90	cps
Sulfur	34-1	1209458	1221604	1205054	1212039	0.71	cps
Terbium	159-1	10384645	10174254	10420475	10326458	1.29	cps
Terbium	159-2	3640223	3635661	3596098	3623994	0.67	cps
Thallium	203-1	573	527	587	562	5.60	cps
Thallium	205-1	1373	1340	1223	1312	6.00	cps
Tin	118-1	1810	1820	1607	1746	6.90	cps
Titanium	47-1	767	843	820	810	4.85	cps
Uranium	238-1	7165	7052	7235	7151	1.29	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-22 14:11:55	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5895	6071	5965	5977	1.49	cps
Ytterbium	172-1	6795	6798	6962	6852	1.39	cps
Ytterbium	172-2	3084	2897	3074	3018	3.48	cps
Ytterbium	176-1	5014	5451	5384	5283	4.45	cps
Ytterbium	176-2	2160	2167	2137	2155	0.73	cps
Yttrium	89-1	16767404	16637341	16449121	16617955	0.96	cps
Yttrium	89-2	1203488	1200542	1199631	1201220	0.17	cps
Zinc	66-2	33309	34412	34051	33924	1.66	cps
Zirconium	90-1	1673	1750	1900	1775	6.50	cps
Zirconium	91-1	393	383	350	376	6.04	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	773687	779023	770469	774393	0.56	cps
Antimony	121-1	1341684	1375800	1380972	1366152	1.56	cps
Arsenic	75-2	1453	1597	1570	1540	4.95	cps
Barium	135-1	1374506	1409288	1406819	1396871	1.39	cps
Barium	137-1	2369792	2468175	2549990	2462652	3.66	cps
Beryllium	9-1	353668	355528	357064	355420	0.48	cps
Bismuth	209-1	5775999	5763393	5979419	5839604	2.08	cps
Bismuth	209-2	2705210	2668429	2645288	2672976	1.13	cps
Bromine	81-1	24007	24595	25263	24622	2.55	cps
Cadmium	108-1	24966	25520	25908	25465	1.86	cps
Cadmium	106-1	43057	45023	44619	44233	2.35	cps
Cadmium	111-1	334020	343452	341937	339803	1.49	cps
Calcium	43-1	1983141	2076199	2037269	2032203	2.30	cps
Calcium	44-1	32777335	33341325	32612649	32910436	1.16	cps
Carbon	12-1	3320675	3355439	3400998	3359038	1.20	cps
Carbon	12-2	23285	23225	23088	23199	0.44	cps
Chlorine	35-1	9619090	11072629	11609934	10767217	9.57	cps
Chlorine	35-2	51398	52331	52210	51980	0.98	cps
Chromium	52-2	271701	271733	271981	271805	0.06	cps
Cobalt	59-2	742912	744874	748093	745293	0.35	cps
Copper	63-2	4280003	4294390	4305041	4293145	0.29	cps
Dysprosium	156-1	170945	174165	177165	174092	1.79	cps
Dysprosium	156-2	47233	47698	48558	47830	1.41	cps
Erbium	164-1	124796	127417	125964	126059	1.04	cps
Erbium	164-2	44788	44431	44809	44676	0.48	cps
Gadolinium	160-1	123717	124515	128041	125425	1.83	cps
Gadolinium	160-2	53360	52724	53878	53321	1.08	cps
Holmium	165-1	9725320	10133010	10216447	10024926	2.62	cps
Holmium	165-2	3895274	3763886	3827003	3828721	1.72	cps
Indium	115-1	8717697	8886477	8674707	8759627	1.28	cps
Indium	115-2	895962	902319	894853	897711	0.45	cps
Iron	54-2	804896	807978	800420	804431	0.47	cps
Iron	56-2	14780412	14644621	14843918	14756317	0.69	cps
Iron	57-2	367284	372003	369479	369589	0.64	cps
Krypton	83-1	333	330	277	313	10.15	cps
Lead	206-1	4378564	4502443	4505532	4462179	1.62	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3965433	3992043	3906125	3954534	1.11	cps
Lead	208-1	17636456	17764068	17589906	17663477	0.51	cps
Lithium	6-1	3326331	3383236	3376673	3362080	0.93	cps
Magnesium	24-2	2580924	2656907	2593771	2610534	1.56	cps
Manganese	55-2	4965992	4957382	4957098	4960157	0.10	cps
Molybdenum	94-1	2204096	2289017	2268215	2253776	1.96	cps
Molybdenum	95-1	2433517	2481055	2510713	2475095	1.57	cps
Molybdenum	96-1	2702650	2727571	2738970	2723064	0.68	cps
Molybdenum	97-1	1481976	1508559	1481142	1490559	1.05	cps
Molybdenum	98-1	3867680	3863623	3935157	3888820	1.03	cps
Neodymium	150-1	177015	180801	180562	179459	1.18	cps
Neodymium	150-2	45815	46895	46109	46273	1.21	cps
Nickel	60-2	191660	193755	193167	192861	0.56	cps
Phosphorus	31-2	1880	1963	1713	1852	6.87	cps
Potassium	39-2	1206762	1206512	1215575	1209616	0.43	cps
Rhodium	103-1	8058304	8204810	8150152	8137755	0.91	cps
Rhodium	103-2	3239367	3304250	3202506	3248707	1.59	cps
Scandium	45-1	5821752	6003263	5845205	5890073	1.68	cps
Scandium	45-2	108929	109422	109322	109224	0.24	cps
Selenium	82-1	22409	22472	22882	22588	1.14	cps
Selenium	77-2	530	543	557	543	2.45	cps
Selenium	78-2	1530	1423	1433	1462	4.03	cps
Silicon	28-1	62802687	64022877	62930511	63252025	1.06	cps
Silver	107-1	271741	281502	286677	279973	2.71	cps
Silver	109-1	256325	264932	264384	261880	1.84	cps
Sodium	23-2	3823198	3905313	3830344	3852952	1.18	cps
Strontium	86-1	1002486	1031776	1044124	1026129	2.08	cps
Strontium	88-1	8949880	9311118	9407072	9222690	2.61	cps
Sulfur	34-1	3694008	3678856	3705985	3692950	0.37	cps
Terbium	159-1	10458317	10636686	10443720	10512908	1.02	cps
Terbium	159-2	3742707	3633417	3699604	3691909	1.49	cps
Thallium	203-1	1002709	1033481	1033644	1023278	1.74	cps
Thallium	205-1	2508909	2578009	2646350	2577756	2.67	cps
Tin	118-1	910819	940468	939246	930177	1.80	cps
Titanium	47-1	3057	3317	3290	3222	4.44	cps
Uranium	238-1	3141222	3116851	3159552	3139208	0.68	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:15:17	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	228443	229932	228614	228996	0.36	cps
Ytterbium	172-1	31026	31110	31487	31208	0.79	cps
Ytterbium	172-2	13650	13794	13497	13647	1.09	cps
Ytterbium	176-1	25037	25508	25344	25297	0.94	cps
Ytterbium	176-2	10154	10748	10938	10613	3.85	cps
Yttrium	89-1	18122951	18914776	19166119	18734615	2.91	cps
Yttrium	89-2	1339449	1352602	1329806	1340619	0.85	cps
Zinc	66-2	595201	598209	597320	596910	0.26	cps
Zirconium	90-1	2352607	2332875	2365102	2350195	0.69	cps
Zirconium	91-1	489663	504032	505377	499691	1.74	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	763319	776197	770895	770137	0.84	cps
Antimony	121-1	1334815	1373159	1368438	1358804	1.54	cps
Arsenic	75-2	1530	1423	1527	1493	4.06	cps
Barium	135-1	1369025	1388137	1388137	1381766	0.80	cps
Barium	137-1	2474907	2502422	2447340	2474889	1.11	cps
Beryllium	9-1	349369	356182	352217	352589	0.97	cps
Bismuth	209-1	5862113	5986651	5854783	5901182	1.26	cps
Bismuth	209-2	2662220	2752577	2684060	2699619	1.75	cps
Bromine	81-1	25517	24969	25844	25443	1.74	cps
Cadmium	108-1	25116	25293	25767	25392	1.33	cps
Cadmium	106-1	43629	44662	43696	43995	1.31	cps
Cadmium	111-1	337525	339031	334988	337181	0.61	cps
Calcium	43-1	2020339	2023356	2041278	2028324	0.56	cps
Calcium	44-1	33217085	32491021	33022545	32910217	1.14	cps
Carbon	12-1	3360238	3456708	3395919	3404288	1.43	cps
Carbon	12-2	23389	24150	23719	23753	1.61	cps
Chlorine	35-1	10544897	11638874	12388709	11524160	8.05	cps
Chlorine	35-2	53334	53766	52542	53214	1.17	cps
Chromium	52-2	271100	273014	270574	271563	0.47	cps
Cobalt	59-2	740143	750419	740344	743635	0.79	cps
Copper	63-2	4306084	4256129	4210518	4257577	1.12	cps
Dysprosium	156-1	171951	172350	173785	172695	0.56	cps
Dysprosium	156-2	47179	48534	47511	47742	1.48	cps
Erbium	164-1	124913	126118	124180	125070	0.78	cps
Erbium	164-2	44304	44899	45317	44840	1.14	cps
Gadolinium	160-1	124065	126026	123111	124401	1.19	cps
Gadolinium	160-2	53068	52556	52379	52668	0.68	cps
Holmium	165-1	10029517	9948761	10068233	10015504	0.61	cps
Holmium	165-2	3866736	3807737	3861434	3845303	0.85	cps
Indium	115-1	8810534	8946346	8914623	8890501	0.80	cps
Indium	115-2	904986	901184	895499	900557	0.53	cps
Iron	54-2	801337	805692	789954	798994	1.02	cps
Iron	56-2	14776396	15099152	14994493	14956680	1.10	cps
Iron	57-2	367206	374414	368730	370117	1.03	cps
Krypton	83-1	280	347	330	319	10.88	cps
Lead	206-1	4457609	4483754	4528037	4489800	0.79	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3820596	3923145	3837305	3860349	1.43	cps
Lead	208-1	17651842	17838425	17393292	17627853	1.27	cps
Lithium	6-1	3314114	3417071	3387774	3372986	1.57	cps
Magnesium	24-2	2621770	2554709	2592241	2589574	1.30	cps
Manganese	55-2	4929908	5082603	4935659	4982723	1.74	cps
Molybdenum	94-1	2216891	2157268	2217166	2197108	1.57	cps
Molybdenum	95-1	2365744	2451151	2375935	2397610	1.95	cps
Molybdenum	96-1	2669669	2807647	2739168	2738828	2.52	cps
Molybdenum	97-1	1497061	1483915	1495526	1492167	0.48	cps
Molybdenum	98-1	3863012	3893823	3893592	3883476	0.46	cps
Neodymium	150-1	177802	180984	177267	178684	1.12	cps
Neodymium	150-2	45667	46377	44818	45621	1.71	cps
Nickel	60-2	191258	192366	191694	191773	0.29	cps
Phosphorus	31-2	1620	1780	1780	1727	5.35	cps
Potassium	39-2	1211484	1235368	1199417	1215423	1.51	cps
Rhodium	103-1	8152933	8246189	8225629	8208250	0.60	cps
Rhodium	103-2	3326356	3282669	3298859	3302628	0.67	cps
Scandium	45-1	6029831	5906705	5900992	5945843	1.22	cps
Scandium	45-2	109150	112113	109204	110156	1.54	cps
Selenium	82-1	22565	22950	22659	22725	0.88	cps
Selenium	77-2	607	540	440	529	15.86	cps
Selenium	78-2	1550	1467	1460	1492	3.36	cps
Silicon	28-1	63868502	63554666	64520922	63981363	0.77	cps
Silver	107-1	272330	281200	281427	278319	1.86	cps
Silver	109-1	255194	262645	263188	260342	1.72	cps
Sodium	23-2	3839288	3865493	3923949	3876243	1.12	cps
Strontium	86-1	1007443	1022949	1020657	1017016	0.82	cps
Strontium	88-1	9315924	9023256	9207304	9182161	1.61	cps
Sulfur	34-1	3740384	3746145	3660281	3715603	1.29	cps
Terbium	159-1	10498299	10715998	10697666	10637321	1.14	cps
Terbium	159-2	3795829	3705553	3653910	3718431	1.93	cps
Thallium	203-1	1002565	1014640	1027669	1014958	1.24	cps
Thallium	205-1	2473386	2538036	2574449	2528624	2.02	cps
Tin	118-1	927378	933941	928863	930060	0.37	cps
Titanium	47-1	3260	3294	3224	3259	1.07	cps
Uranium	238-1	3137233	3238248	3071929	3149136	2.66	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725MSDl	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:18:19	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	228970	231237	228678	229628	0.61	cps
Ytterbium	172-1	30609	30716	30813	30712	0.33	cps
Ytterbium	172-2	13457	13280	13410	13382	0.68	cps
Ytterbium	176-1	24883	25461	25284	25210	1.17	cps
Ytterbium	176-2	10561	10588	10414	10521	0.89	cps
Yttrium	89-1	18831521	19020415	18523271	18791735	1.34	cps
Yttrium	89-2	1351993	1351213	1355792	1352999	0.18	cps
Zinc	66-2	592140	592794	591496	592143	0.11	cps
Zirconium	90-1	2277781	2368782	2302981	2316515	2.03	cps
Zirconium	91-1	488329	494149	489083	490520	0.65	cps

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On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	768974	768222	769733	768977	0.10	cps
Antimony	121-1	1354709	1376296	1403202	1378069	1.76	cps
Arsenic	75-2	1523	1570	1437	1510	4.48	cps
Barium	135-1	1394392	1391433	1408182	1398002	0.64	cps
Barium	137-1	2483291	2472190	2573241	2509574	2.21	cps
Beryllium	9-1	352895	353449	356502	354282	0.55	cps
Bismuth	209-1	5828906	5778208	6051285	5886133	2.47	cps
Bismuth	209-2	2721926	2630016	2782952	2711631	2.84	cps
Bromine	81-1	25326	25620	25754	25567	0.86	cps
Cadmium	108-1	25754	25681	26692	26042	2.17	cps
Cadmium	106-1	44418	44853	44903	44724	0.60	cps
Cadmium	111-1	340851	341393	343990	342078	0.49	cps
Calcium	43-1	2113271	2015925	2061825	2063674	2.36	cps
Calcium	44-1	33797927	33392946	33539573	33576815	0.61	cps
Carbon	12-1	3448490	3453528	3496634	3466217	0.76	cps
Carbon	12-2	23656	24267	23813	23912	1.33	cps
Chlorine	35-1	11004902	11950402	12610188	11855164	6.81	cps
Chlorine	35-2	52890	54278	55282	54150	2.22	cps
Chromium	52-2	273438	275053	274257	274249	0.29	cps
Cobalt	59-2	744480	754827	752455	750587	0.72	cps
Copper	63-2	4315797	4411050	4273313	4333386	1.63	cps
Dysprosium	156-1	171709	174021	178080	174603	1.85	cps
Dysprosium	156-2	48705	47962	47615	48094	1.16	cps
Erbium	164-1	125078	125431	127131	125880	0.87	cps
Erbium	164-2	45150	45310	45086	45182	0.26	cps
Gadolinium	160-1	124559	125787	126043	125463	0.63	cps
Gadolinium	160-2	53828	53353	53888	53690	0.55	cps
Holmium	165-1	9841871	9969442	10111448	9974254	1.35	cps
Holmium	165-2	3869728	3741110	3852513	3821117	1.83	cps
Indium	115-1	8749350	8865211	8961919	8858827	1.20	cps
Indium	115-2	902447	876771	899203	892807	1.57	cps
Iron	54-2	801902	815005	816910	811272	1.01	cps
Iron	56-2	14892702	14945948	14951030	14929893	0.22	cps
Iron	57-2	373459	371280	370823	371854	0.38	cps
Krypton	83-1	257	290	367	304	18.53	cps
Lead	206-1	4485957	4517748	4505650	4503118	0.36	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3883853	3924157	3926005	3911338	0.61	cps
Lead	208-1	17615045	17706606	17905916	17742522	0.84	cps
Lithium	6-1	3276000	3365822	3352634	3331486	1.46	cps
Magnesium	24-2	2636490	2618100	2538269	2597620	2.01	cps
Manganese	55-2	4947239	5012662	4895641	4951847	1.18	cps
Molybdenum	94-1	2205325	2208382	2226596	2213434	0.52	cps
Molybdenum	95-1	2423571	2430851	2523996	2459473	2.28	cps
Molybdenum	96-1	2763266	2750090	2747409	2753589	0.31	cps
Molybdenum	97-1	1485494	1550671	1509714	1515293	2.17	cps
Molybdenum	98-1	3853941	3938192	3952839	3914990	1.36	cps
Neodymium	150-1	177173	178585	180288	178682	0.87	cps
Neodymium	150-2	45707	45671	45865	45748	0.23	cps
Nickel	60-2	196238	194232	195618	195362	0.53	cps
Phosphorus	31-2	1783	1647	1617	1682	5.28	cps
Potassium	39-2	1212226	1214247	1210428	1212300	0.16	cps
Rhodium	103-1	8060911	8246902	8155731	8154515	1.14	cps
Rhodium	103-2	3294010	3222109	3244967	3253696	1.13	cps
Scandium	45-1	6019782	6002127	6035108	6019006	0.27	cps
Scandium	45-2	109896	107317	108764	108659	1.19	cps
Selenium	82-1	22782	23049	23544	23125	1.67	cps
Selenium	77-2	533	580	487	533	8.75	cps
Selenium	78-2	1343	1510	1627	1493	9.54	cps
Silicon	28-1	65503339	64695136	63176721	64458398	1.83	cps
Silver	107-1	281056	281438	282691	281728	0.30	cps
Silver	109-1	259968	261610	264537	262038	0.88	cps
Sodium	23-2	3827628	3786577	3917793	3844000	1.75	cps
Strontium	86-1	1029576	1036058	1044285	1036640	0.71	cps
Strontium	88-1	9040144	9261305	9297717	9199722	1.52	cps
Sulfur	34-1	3761276	3720858	3707743	3729959	0.75	cps
Terbium	159-1	10521200	10405008	10626677	10517628	1.05	cps
Terbium	159-2	3730243	3742799	3755281	3742774	0.33	cps
Thallium	203-1	1014805	1020892	1032500	1022732	0.88	cps
Thallium	205-1	2530717	2544529	2513694	2529647	0.61	cps
Tin	118-1	933337	943171	963009	946506	1.60	cps
Titanium	47-1	3340	3080	3444	3288	5.69	cps
Uranium	238-1	3085757	3164453	3261250	3170487	2.77	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	Q1984-16ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-TS-28-050725ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-22 14:21:23	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	230383	230413	229776	230191	0.16	cps
Ytterbium	172-1	31073	31320	30933	31109	0.63	cps
Ytterbium	172-2	12906	13107	13717	13243	3.19	cps
Ytterbium	176-1	24573	25391	24934	24966	1.64	cps
Ytterbium	176-2	10564	10804	10654	10674	1.14	cps
Yttrium	89-1	18655998	18536099	19030711	18740936	1.38	cps
Yttrium	89-2	1355665	1321776	1355596	1344346	1.45	cps
Zinc	66-2	598448	595502	592922	595624	0.46	cps
Zirconium	90-1	2327627	2389529	2354778	2357311	1.32	cps
Zirconium	91-1	495143	505629	506313	502362	1.25	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2112064	2198981	2115163	2142069	2.30	cps
Antimony	121-1	6841363	6954027	6871644	6889011	0.85	cps
Arsenic	75-2	151532	152296	150153	151327	0.72	cps
Barium	135-1	7363342	7496521	7539922	7466595	1.23	cps
Barium	137-1	12654778	13052750	12935037	12880855	1.59	cps
Beryllium	9-1	1582368	1622965	1625962	1610432	1.51	cps
Bismuth	209-1	5422437	5322076	5391224	5378579	0.95	cps
Bismuth	209-2	2411471	2547914	2496763	2485383	2.77	cps
Bromine	81-1	22254	21807	21583	21882	1.56	cps
Cadmium	108-1	123396	127735	125969	125700	1.74	cps
Cadmium	106-1	186346	189739	187485	187857	0.92	cps
Cadmium	111-1	1589647	1630819	1623118	1614528	1.36	cps
Calcium	43-1	9607621	9686138	9643031	9645597	0.41	cps
Calcium	44-1	152625038	159419428	159266738	157103734	2.47	cps
Carbon	12-1	2883058	2920473	2934737	2912756	0.92	cps
Carbon	12-2	22257	22187	22477	22307	0.68	cps
Chlorine	35-1	1316405	1229396	1154869	1233556	6.55	cps
Chlorine	35-2	4211	4144	3567	3974	8.90	cps
Chromium	52-2	1283809	1283498	1284289	1283865	0.03	cps
Cobalt	59-2	2481372	2513467	2423194	2472678	1.85	cps
Copper	63-2	19279378	19492803	19749457	19507213	1.21	cps
Dysprosium	156-1	440	513	390	448	13.85	cps
Dysprosium	156-2	113	93	87	98	14.20	cps
Erbium	164-1	377	360	380	372	2.88	cps
Erbium	164-2	153	153	147	151	2.55	cps
Gadolinium	160-1	233	300	390	308	25.54	cps
Gadolinium	160-2	110	93	103	102	8.21	cps
Holmium	165-1	9400277	9756818	9586527	9581207	1.86	cps
Holmium	165-2	3589569	3853732	3787733	3743678	3.67	cps
Indium	115-1	7892386	8029935	7984211	7968844	0.88	cps
Indium	115-2	810751	863865	846199	840272	3.22	cps
Iron	54-2	13731102	13608109	13436940	13592050	1.09	cps
Iron	56-2	247259250	247345443	253789030	249464574	1.50	cps
Iron	57-2	6302399	6372579	6303365	6326114	0.64	cps
Krypton	83-1	250	277	167	231	24.83	cps
Lead	206-1	21152828	20914866	20917090	20994928	0.65	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17787465	17774413	17579118	17713665	0.66	cps
Lead	208-1	81506440	82269387	82092852	81956226	0.49	cps
Lithium	6-1	3047111	3101689	3064045	3070948	0.91	cps
Magnesium	24-2	35992141	36079389	36880796	36317442	1.35	cps
Manganese	55-2	5476624	5501349	5382400	5453458	1.15	cps
Molybdenum	94-1	22801478	23593540	23040987	23145335	1.76	cps
Molybdenum	95-1	33351562	33910644	33316979	33526395	0.99	cps
Molybdenum	96-1	35746716	35488990	36367831	35867846	1.26	cps
Molybdenum	97-1	20284804	20479682	20927895	20564127	1.60	cps
Molybdenum	98-1	52107049	54863508	53627069	53532542	2.58	cps
Neodymium	150-1	600	627	697	641	7.79	cps
Neodymium	150-2	63	47	53	54	15.40	cps
Nickel	60-2	639623	649533	640146	643100	0.87	cps
Phosphorus	31-2	24484	25289	24224	24665	2.25	cps
Potassium	39-2	12552467	12560853	12646759	12586693	0.41	cps
Rhodium	103-1	7248405	7324230	7410934	7327856	1.11	cps
Rhodium	103-2	2903138	3110809	3117005	3043650	4.00	cps
Scandium	45-1	5554995	5556875	5569030	5560300	0.14	cps
Scandium	45-2	104305	108595	110719	107873	3.03	cps
Selenium	82-1	106449	108138	108342	107643	0.97	cps
Selenium	77-2	1840	1773	1820	1811	1.89	cps
Selenium	78-2	6405	6392	6348	6381	0.46	cps
Silicon	28-1	41799618	43513354	43192818	42835263	2.13	cps
Silver	107-1	8068696	7979061	7839436	7962398	1.45	cps
Silver	109-1	7515894	7542060	7463926	7507293	0.53	cps
Sodium	23-2	68844007	69149806	69102204	69032006	0.24	cps
Strontium	86-1	2105625	2155315	2155697	2138879	1.35	cps
Strontium	88-1	18150459	18560891	18592948	18434766	1.34	cps
Sulfur	34-1	1075604	1074793	1077040	1075812	0.11	cps
Terbium	159-1	9874361	9863899	9985259	9907840	0.68	cps
Terbium	159-2	3493085	3751321	3583452	3609286	3.63	cps
Thallium	203-1	5125725	5078423	5111710	5105286	0.48	cps
Thallium	205-1	12139884	12160174	11984466	12094841	0.79	cps
Tin	118-1	5180438	5318794	5289316	5262849	1.38	cps
Titanium	47-1	9595263	9318380	9285589	9399744	1.81	cps
Uranium	238-1	14833997	15753482	15554929	15380803	3.15	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:24:24	DataFile Name :	030CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1011882	1008490	1013068	1011147	0.23	cps
Ytterbium	172-1	573	540	523	546	4.67	cps
Ytterbium	172-2	223	220	230	224	2.27	cps
Ytterbium	176-1	26443	27418	27659	27174	2.37	cps
Ytterbium	176-2	10347	10441	10267	10352	0.84	cps
Yttrium	89-1	14757200	15375460	15330659	15154439	2.27	cps
Yttrium	89-2	1110247	1178626	1156746	1148540	3.04	cps
Zinc	66-2	2310679	2280218	2233906	2274934	1.70	cps
Zirconium	90-1	11444596	12029355	11779019	11750990	2.50	cps
Zirconium	91-1	2620375	2629649	2626305	2625443	0.18	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	63	63	63	63	0.00	cps
Antimony	121-1	740	573	547	620	16.90	cps
Arsenic	75-2	7	7	3	6	34.70	cps
Barium	135-1	63	87	83	78	16.23	cps
Barium	137-1	147	153	107	136	18.62	cps
Beryllium	9-1	197	249	219	222	11.62	cps
Bismuth	209-1	6134623	5969022	6295045	6132897	2.66	cps
Bismuth	209-2	2638882	2739863	2798642	2725796	2.96	cps
Bromine	81-1	21153	21156	21660	21323	1.37	cps
Cadmium	108-1	17	23	13	18	28.64	cps
Cadmium	106-1	5104	5071	5198	5124	1.28	cps
Cadmium	111-1	3581	3547	3652	3593	1.50	cps
Calcium	43-1	627	650	693	657	5.15	cps
Calcium	44-1	23236	23503	24010	23583	1.67	cps
Carbon	12-1	2358602	2353778	2372758	2361713	0.42	cps
Carbon	12-2	15275	15321	15468	15355	0.66	cps
Chlorine	35-1	310179	300264	297544	302663	2.20	cps
Chlorine	35-2	1067	1030	1133	1077	4.87	cps
Chromium	52-2	527	577	587	563	5.71	cps
Cobalt	59-2	60	57	40	52	20.52	cps
Copper	63-2	1370	1237	1320	1309	5.15	cps
Dysprosium	156-1	3	13	27	14	81.07	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	57	60	90	69	26.65	cps
Erbium	164-2	27	13	33	24	41.66	cps
Gadolinium	160-1	57	80	63	67	18.03	cps
Gadolinium	160-2	13	17	7	12	41.65	cps
Holmium	165-1	9972784	10081989	10430283	10161686	2.35	cps
Holmium	165-2	3611236	3782727	3881033	3758332	3.63	cps
Indium	115-1	8779032	8892720	9463662	9045138	4.06	cps
Indium	115-2	858005	911932	925563	898500	3.98	cps
Iron	54-2	457	453	477	462	2.73	cps
Iron	56-2	5018	5048	5181	5082	1.71	cps
Iron	57-2	130	127	150	136	9.31	cps
Krypton	83-1	187	207	167	187	10.71	cps
Lead	206-1	763	750	683	732	5.85	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	630	613	707	650	7.66	cps
Lead	208-1	2967	2964	2977	2969	0.23	cps
Lithium	6-1	3354397	3459462	3477116	3430325	1.93	cps
Magnesium	24-2	740	783	667	730	8.08	cps
Manganese	55-2	810	923	710	814	13.11	cps
Molybdenum	94-1	697	747	767	737	4.89	cps
Molybdenum	95-1	403	320	340	354	12.27	cps
Molybdenum	96-1	497	390	480	456	12.60	cps
Molybdenum	97-1	197	220	213	210	5.72	cps
Molybdenum	98-1	563	520	463	516	9.73	cps
Neodymium	150-1	13	20	10	14	35.26	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	157	110	113	127	20.55	cps
Phosphorus	31-2	73	50	67	63	18.98	cps
Potassium	39-2	14961	15325	14591	14959	2.45	cps
Rhodium	103-1	8330391	8537966	8751607	8539988	2.47	cps
Rhodium	103-2	3208492	3408304	3377096	3331297	3.23	cps
Scandium	45-1	5810328	5707145	6307985	5941819	5.41	cps
Scandium	45-2	104149	111015	110810	108658	3.59	cps
Selenium	82-1	63	60	83	69	18.32	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	7	13	27	16	65.47	cps
Silicon	28-1	480825	482104	486052	482994	0.56	cps
Silver	107-1	290	327	270	296	9.72	cps
Silver	109-1	237	213	167	206	17.34	cps
Sodium	23-2	37612	36322	36218	36717	2.11	cps
Strontium	86-1	383	377	383	381	1.01	cps
Strontium	88-1	327	370	310	336	9.23	cps
Sulfur	34-1	564060	563360	564773	564064	0.13	cps
Terbium	159-1	10504247	10682598	10716669	10634505	1.07	cps
Terbium	159-2	3453048	3706447	3723419	3627638	4.17	cps
Thallium	203-1	240	323	257	273	16.13	cps
Thallium	205-1	577	627	663	622	6.99	cps
Tin	118-1	1503	1583	1537	1541	2.61	cps
Titanium	47-1	287	253	260	267	6.61	cps
Uranium	238-1	110	127	90	109	16.86	cps

Reviewed By:Janvi
On:5/23/2025 9:40:48 AM
Inst Id :P8
LB :LB135893

LB Number :	LB135893	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-22 14:32:44	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	10	11	17.30	cps
Ytterbium	172-1	70	83	57	70	19.04	cps
Ytterbium	172-2	20	30	43	31	37.62	cps
Ytterbium	176-1	1153	1287	1223	1221	5.46	cps
Ytterbium	176-2	247	417	343	336	25.41	cps
Yttrium	89-1	16206741	16331558	17035704	16524668	2.70	cps
Yttrium	89-2	1103914	1181913	1192821	1159549	4.18	cps
Zinc	66-2	263	257	273	264	3.17	cps
Zirconium	90-1	1573	1523	1587	1561	2.14	cps
Zirconium	91-1	293	320	297	303	4.79	cps

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167978

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 05/13/2025 **Time :** 14:20 **Temp :** 94 °C

End Digest Date: 05/13/2025 **Time :** 16:20 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: M

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85654
CCV	30mL	MP85656
CRA	30mL	MP85658
Blank Spike	0.48mL	MP85647
Matrix Spike	0.48mL	MP85647

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP85240
KMnO4 (5%)	4.5mL	MP85241
K2S2O8 (5%)	2.4mL	MP85242
Hydroxylamine HCL (12%)	1.8mL	MP85243
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85648
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85649
2.5 ppb	S2.5	30mL	MP85650
5.0 ppb	S5.0	30mL	MP85651
7.5 ppb	S7.5	30mL	MP85652
10.0 ppb	S10.0	30mL	MP85653
ICV	ICV	30mL	MP85654
ICB	ICB	30mL	MP85655
CCV	CCV	30mL	MP85656
CCB	CCB	30mL	MP85657
CRI	CRI	30mL	MP85658
CHK STD	CHK STD	30mL	MP85659

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/13/25 @ 17:10	MB - Dry Lab	MB - Wet Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167978

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167978BL	PBW978	30	30	<2	N/A	3-25
PB167978BS	LCS978	30	30	<2	MP85647	26
PB167978TB	LEB978	30	30	<2	N/A	38
Q1984-02	OU4-PCS-TC-33-050725	30	30	<2	N/A	27
Q1984-04	OU4-PCS-TC-34-050725	30	30	<2	N/A	28
Q1984-06	OU4-PCS-TC-35-050725	30	30	<2	N/A	29
Q1984-08	OU4-TS-24-050725	30	30	<2	N/A	30
Q1984-10	OU4-TS-25-050725	30	30	<2	N/A	31
Q1984-12	OU4-TS-26-050725	30	30	<2	N/A	32
Q1984-14	OU4-TS-27-050725	30	30	<2	N/A	33
Q1984-16	OU4-TS-28-050725	30	30	<2	N/A	34
Q1984-16DUP	OU4-TS-28-050725DUP	30	30	<2	N/A	35
Q1984-16MS	OU4-TS-28-050725MS	30	30	<2	MP85647	36
Q1984-16MSD	OU4-TS-28-050725MSD	30	30	<2	MP85647	37

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167933

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 115525

Start Prep Date : 05/09/2025 **Time :** 17:20

End Prep Date : 05/10/2025 **Time :** 11:35

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	WP112802	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	N/A	W3166,W1938,W1939,
N/A	N/A	N/A
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-2 checked,30 rpm. q1984-16 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/12/25 11:30	JP Lab Room	SL29. IDL
	Preparation Group	Analysis Group DJ

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167960

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: 05/12/2025 **Time :** 12:05 **Temp :** 96 °C

End Digest Date: 05/12/2025 **Time :** 14:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SJD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP85581
Spike Sol 2	1.00	MP85582
Spike Sol 3	1.00	MP85583
Spike Sol 4	1.00	MP85584
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 # 1CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/12/25 15:10	SJD. met.dig	Loreta Q Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167960BL	PBW960	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	N/A
PB167960BS	LCS960	<2	50	50	Colorless	Colorless	Clear	Clear	MP85371,MP85372,MP85373,M	N/A
PB167960TB	LEB960	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	N/A
Q1984-02	OU4-PCS-TC-33-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3
Q1984-04	OU4-PCS-TC-34-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	4
Q1984-06	OU4-PCS-TC-35-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	5
Q1984-08	OU4-TS-24-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	6
Q1984-10	OU4-TS-25-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	7
Q1984-12	OU4-TS-26-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	8
Q1984-14	OU4-TS-27-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	9
Q1984-16	OU4-TS-28-050725	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	10
Q1984-16MS	OU4-TS-28-050725MS	<2	50	50	Colorless	Colorless	Clear	Clear	MP85371,MP85372,MP85373,M	12
Q1984-16MSD	OU4-TS-28-050725MSD	<2	50	50	Colorless	Colorless	Clear	Clear	MP85371,MP85372,MP85373,M	13
Q1984-16DUP	OU4-TS-28-050725DUP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	11

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167933

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167933TB	LEB933	19	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2
Q1984-02	OU4-PCS-TC-33-050725	11	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1984-04	OU4-PCS-TC-34-050725	12	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1984-06	OU4-PCS-TC-35-050725	13	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1984-08	OU4-TS-24-050725	14	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-2
Q1984-10	OU4-TS-25-050725	15	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1984-12	OU4-TS-26-050725	16	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1984-14	OU4-TS-27-050725	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1984-16	OU4-TS-28-050725	18	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2

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Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135763

Review By	MOHAN	Review On	5/15/2025 11:25:39 AM
Supervise By	jaswal	Supervise On	5/15/2025 1:45:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP85648,MP85649,MP85650,MP85651,MP85652,MP85653
ICV Standard	MP85654
CCV Standard	MP85656
ICSA Standard	
CRI Standard	MP85658
LCS Standard	
Chk Standard	MP85655,MP85657,MP85659,MP85654

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/14/25 11:27		MOHAN	OK
2	S0.2	S0.2	CAL2	05/14/25 11:30		MOHAN	OK
3	S2.5	S2.5	CAL3	05/14/25 11:32		MOHAN	OK
4	S5	S5	CAL4	05/14/25 11:34		MOHAN	OK
5	S7.5	S7.5	CAL5	05/14/25 11:36		MOHAN	OK
6	S10	S10	CAL6	05/14/25 11:39		MOHAN	OK
7	ICV08	ICV08	ICV	05/14/25 11:42		MOHAN	OK
8	ICB08	ICB08	ICB	05/14/25 11:44		MOHAN	OK
9	CCV22	CCV22	CCV	05/14/25 11:46		MOHAN	OK
10	CCB22	CCB22	CCB	05/14/25 11:51		MOHAN	OK
11	CRA	CRA	CRDL	05/14/25 11:54		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/14/25 11:56		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/14/25 11:58		MOHAN	OK
14	PB167978BL	PB167978BL	MB	05/14/25 12:03		MOHAN	OK
15	PB167978BS	PB167978BS	LCS	05/14/25 12:05		MOHAN	OK
16	Q1984-02	OU4-PCS-TC-33-050	SAM	05/14/25 12:08		MOHAN	OK
17	Q1984-04	OU4-PCS-TC-34-050	SAM	05/14/25 12:10		MOHAN	OK
18	Q1984-06	OU4-PCS-TC-35-050	SAM	05/14/25 12:12		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135763

Review By	MOHAN	Review On	5/15/2025 11:25:39 AM
Supervise By	jaswal	Supervise On	5/15/2025 1:45:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP85648,MP85649,MP85650,MP85651,MP85652,MP85653
ICV Standard	MP85654
CCV Standard	MP85656
ICSA Standard	
CRI Standard	MP85658
LCS Standard	
Chk Standard	MP85655,MP85657,MP85659,MP85654

19	Q1984-08	OU4-TS-24-050725	SAM	05/14/25 12:15		MOHAN	OK
20	Q1984-10	OU4-TS-25-050725	SAM	05/14/25 12:17		MOHAN	OK
21	CCV23	CCV23	CCV	05/14/25 12:24		MOHAN	OK
22	CCB23	CCB23	CCB	05/14/25 12:26		MOHAN	OK
23	Q1984-12	OU4-TS-26-050725	SAM	05/14/25 12:29		MOHAN	OK
24	Q1984-14	OU4-TS-27-050725	SAM	05/14/25 12:31		MOHAN	OK
25	Q1984-16	OU4-TS-28-050725	SAM	05/14/25 12:33		MOHAN	OK
26	Q1984-16DUP	OU4-TS-28-050725DU	DUP	05/14/25 12:35		MOHAN	OK
27	Q1984-16MS	OU4-TS-28-050725MS	MS	05/14/25 12:38		MOHAN	OK
28	Q1984-16MSD	OU4-TS-28-050725MS	MSD	05/14/25 12:40		MOHAN	OK
29	PB167979BL	PB167979BL	MB	05/14/25 12:42		MOHAN	OK
30	PB167979BS	PB167979BS	LCS	05/14/25 12:45		MOHAN	OK
31	Q2001-03	WC-A4-03-C	SAM	05/14/25 12:47		MOHAN	OK
32	Q2001-07	WC-A1-05-C	SAM	05/14/25 12:49		MOHAN	OK
33	CCV24	CCV24	CCV	05/14/25 12:51		MOHAN	OK
34	CCB24	CCB24	CCB	05/14/25 12:54		MOHAN	OK
35	Q2001-11	WC-A1-06-C	SAM	05/14/25 12:56		MOHAN	OK
36	Q2001-15	WC-A1-07-C	SAM	05/14/25 12:58		MOHAN	OK
37	Q2004-02	VNJ-220	SAM	05/14/25 13:01		MOHAN	OK
38	Q2004-04	2811	SAM	05/14/25 13:03		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135763

Review By	MOHAN	Review On	5/15/2025 11:25:39 AM
Supervise By	jaswal	Supervise On	5/15/2025 1:45:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP85648,MP85649,MP85650,MP85651,MP85652,MP85653
ICV Standard	MP85654
CCV Standard	MP85656
ICSA Standard	
CRI Standard	MP85658
LCS Standard	
Chk Standard	MP85655,MP85657,MP85659,MP85654

39	Q2004-06	R0202	SAM	05/14/25 13:05		MOHAN	OK
40	Q2004-08	205510	SAM	05/14/25 13:07		MOHAN	OK
41	Q2004-10	SOIL-STOCK	SAM	05/14/25 13:10		MOHAN	OK
42	Q2004-12	STONE-STOCK	SAM	05/14/25 13:12		MOHAN	OK
43	Q2007-06	OR-636-COMP-10	SAM	05/14/25 13:14		MOHAN	OK
44	Q2007-12	OR-636-COMP-11	SAM	05/14/25 13:16		MOHAN	OK
45	CCV25	CCV25	CCV	05/14/25 13:28		MOHAN	OK
46	CCB25	CCB25	CCB	05/14/25 13:30		MOHAN	OK
47	Q2007-18	OR-636-COMP-12	SAM	05/14/25 13:32		MOHAN	OK
48	Q2007-24	OR-636-COMP-13	SAM	05/14/25 13:35		MOHAN	OK
49	Q2007-30	OR-636-COMP-14	SAM	05/14/25 13:37		MOHAN	OK
50	Q2007-36	OR-636-COMP-15	SAM	05/14/25 13:39		MOHAN	OK
51	Q2007-36DUP	OR-636-COMP-15DU	DUP	05/14/25 13:41		MOHAN	OK
52	Q2007-36MS	OR-636-COMP-15MS	MS	05/14/25 13:44		MOHAN	OK
53	Q2007-36MSD	OR-636-COMP-15MS	MSD	05/14/25 13:46		MOHAN	OK
54	Q2017-04	MH-I	SAM	05/14/25 13:48		MOHAN	OK
55	Q2017-08	MH-J	SAM	05/14/25 13:51		MOHAN	OK
56	PB167980BL	PB167980BL	MB	05/14/25 13:53		MOHAN	OK
57	CCV26	CCV26	CCV	05/14/25 13:55		MOHAN	OK
58	CCB26	CCB26	CCB	05/14/25 13:57		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135763

Review By	MOHAN	Review On	5/15/2025 11:25:39 AM
Supervise By	jaswal	Supervise On	5/15/2025 1:45:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP85648,MP85649,MP85650,MP85651,MP85652,MP85653
ICV Standard	MP85654
CCV Standard	MP85656
ICSA Standard	
CRI Standard	MP85658
LCS Standard	
Chk Standard	MP85655,MP85657,MP85659,MP85654

59	PB167980BS	PB167980BS	LCS	05/14/25 14:00		MOHAN	OK
60	Q1970-02	TRE-25-0057	SAM	05/14/25 14:02		MOHAN	OK
61	Q1980-01	3834	SAM	05/14/25 14:04		MOHAN	OK
62	Q1980-02	3832	SAM	05/14/25 14:07		MOHAN	OK
63	Q1980-03	3835	SAM	05/14/25 14:09		MOHAN	OK
64	Q1985-01	RW8-BW-20250507	SAM	05/14/25 14:11		MOHAN	OK
65	Q1992-01	60453	SAM	05/14/25 14:13		MOHAN	OK
66	Q2005-01	252806	SAM	05/14/25 14:16		MOHAN	OK
67	Q2008-01	IDW-AQ-DRUM-633-0	SAM	05/14/25 14:18		MOHAN	OK
68	Q2008-01DUP	IDW-AQ-DRUM-633-0	DUP	05/14/25 14:20		MOHAN	OK
69	CCV27	CCV27	CCV	05/14/25 14:23		MOHAN	OK
70	CCB27	CCB27	CCB	05/14/25 14:25		MOHAN	OK
71	Q2008-01MS	IDW-AQ-DRUM-633-0	MS	05/14/25 14:27		MOHAN	OK
72	Q2008-01MSD	IDW-AQ-DRUM-633-0	MSD	05/14/25 14:29		MOHAN	OK
73	PB167943TB	PB167943TB	MB	05/14/25 14:32		MOHAN	OK
74	PB167978TB	PB167978TB	MB	05/14/25 14:34		MOHAN	OK
75	PB167963TB	PB167963TB	MB	05/14/25 14:36		MOHAN	OK
76	CCV28	CCV28	CCV	05/14/25 14:39		MOHAN	OK
77	CCB28	CCB28	CCB	05/14/25 14:41		MOHAN	OK
78	Q1984-16L	OU4-TS-28-050725L	SD	05/14/25 14:43		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135763

Review By	MOHAN	Review On	5/15/2025 11:25:39 AM
Supervise By	jaswal	Supervise On	5/15/2025 1:45:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP85648,MP85649,MP85650,MP85651,MP85652,MP85653
ICV Standard	MP85654
CCV Standard	MP85656
ICSA Standard	
CRI Standard	MP85658
LCS Standard	
Chk Standard	MP85655,MP85657,MP85659,MP85654

79	Q1984-16A	OU4-TS-28-050725A	PS	05/14/25 14:45		MOHAN	OK
80	Q2007-36L	OR-636-COMP-15L	SD	05/14/25 14:48		MOHAN	OK
81	Q2007-36A	OR-636-COMP-15A	PS	05/14/25 14:50		MOHAN	OK
82	Q2008-01L	IDW-AQ-DRUM-633-0	SD	05/14/25 14:52		MOHAN	OK
83	Q2008-01A	IDW-AQ-DRUM-633-0	PS	05/14/25 14:55		MOHAN	OK
84	CCV29	CCV29	CCV	05/14/25 14:57		MOHAN	OK
85	CCB29	CCB29	CCB	05/14/25 14:59		MOHAN	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135886

Review By	jaswal	Review On	5/23/2025 2:54:45 AM
Supervise By	Janvi	Supervise On	5/23/2025 9:40:12 AM

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	05/21/25 13:07		Jaswal	OK
2	S0	S0	CAL1	05/21/25 13:53		Jaswal	OK
3	S2	S2	CAL3	05/21/25 14:00		Jaswal	OK
4	S3	S3	CAL4	05/21/25 14:03		Jaswal	OK
5	S4	S4	CAL5	05/21/25 14:07		Jaswal	OK
6	S5	S5	CAL6	05/21/25 14:09		Jaswal	OK
7	S6	S6	CAL7	05/21/25 14:12		Jaswal	OK
8	S7	S7	CAL8	05/21/25 14:15		Jaswal	OK
9	S8	S8	CAL9	05/21/25 14:18		Jaswal	OK
10	ICV01	ICV01	ICV	05/21/25 14:30		Jaswal	OK
11	LLICV01	LLICV01	LLICV	05/21/25 14:33		Jaswal	OK
12	ICB01	ICB01	ICB	05/21/25 14:37		Jaswal	OK
13	ICSA01	ICSA01	ICSA	05/21/25 14:40		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	05/21/25 14:43		Jaswal	OK
15	CCV01	CCV01	CCV	05/21/25 14:51		Jaswal	OK
16	CCB01	CCB01	CCB	05/21/25 14:57		Jaswal	OK
17	CRI	CRI	CRDL	05/21/25 15:00		Jaswal	OK
18	PB167960BL	PB167960BL	MB	05/21/25 15:31		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135886

Review By	jaswal	Review On	5/23/2025 2:54:45 AM
Supervise By	Janvi	Supervise On	5/23/2025 9:40:12 AM

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	PB167960BS	PB167960BS	LCS	05/21/25 15:34		Jaswal	OK
20	PB167960TB	PB167960TB	MB	05/21/25 15:37		Jaswal	OK
21	Q1984-02DL	OU4-PCS-TC-33-050	SAM	05/21/25 15:40	5X Stright	Jaswal	OK
22	Q1984-04DL	OU4-PCS-TC-34-050	SAM	05/21/25 15:43	5X Stright	Jaswal	OK
23	Q1984-06DL	OU4-PCS-TC-35-050	SAM	05/21/25 15:46	5X Stright	Jaswal	OK
24	Q1984-08DL	OU4-TS-24-050725DL	SAM	05/21/25 15:50	5X Stright	Jaswal	OK
25	Q1984-10DL	OU4-TS-25-050725DL	SAM	05/21/25 15:53	5X Stright	Jaswal	OK
26	Q1984-12DL	OU4-TS-26-050725DL	SAM	05/21/25 15:56	5X Stright	Jaswal	OK
27	CCV02	CCV02	CCV	05/21/25 15:59		Jaswal	OK
28	CCB02	CCB02	CCB	05/21/25 16:05		Jaswal	OK
29	Q1984-14DL	OU4-TS-27-050725DL	SAM	05/21/25 16:09	5X Stright	Jaswal	OK
30	Q1984-16DL	OU4-TS-28-050725DL	SAM	05/21/25 16:12	Not Use	Jaswal	Not Ok
31	Q1984-16DUPDL	OU4-TS-28-050725DU	DUP	05/21/25 16:15	Not Use	Jaswal	Not Ok
32	Q1984-16LDL	OU4-TS-28-050725LD	SD	05/21/25 16:18	Not Use	Jaswal	Not Ok
33	Q1984-16MSDL	OU4-TS-28-050725M	MS	05/21/25 16:22	Not Use	Jaswal	Not Ok
34	Q1984-16MSDDL	OU4-TS-28-050725M	MSD	05/21/25 16:24	Not Use	Jaswal	Not Ok
35	Q1984-16ADL	OU4-TS-28-050725AD	PS	05/21/25 16:27	Not Use	Jaswal	Not Ok
36	PB168105BL	PB168105BL	MB	05/21/25 16:45		Jaswal	OK
37	PB168105BS	PB168105BS	LCS	05/21/25 16:49		Jaswal	OK
38	Q2085-01	SC-4-SED-051525	SAM	05/21/25 16:54		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135886

Review By	jaswal	Review On	5/23/2025 2:54:45 AM
Supervise By	Janvi	Supervise On	5/23/2025 9:40:12 AM

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	CCV03	CCV03	CCV	05/21/25 16:57		Jaswal	OK
40	CCB03	CCB03	CCB	05/21/25 17:28		Jaswal	OK
41	Q2085-02	SC-3-SED-051525	SAM	05/21/25 17:32		Jaswal	OK
42	Q2085-03	SC-2-SED-051525	SAM	05/21/25 17:35		Jaswal	OK
43	Q2085-04	SC-1-SED-051625	SAM	05/21/25 17:39		Jaswal	OK
44	Q2085-04DUP	SC-1-SED-051625DU	DUP	05/21/25 17:42		Jaswal	OK
45	Q2085-04L	SC-1-SED-051625L	SD	05/21/25 17:45		Jaswal	OK
46	Q2085-05	SC-1-SED-051625MS	MS	05/21/25 17:48		Jaswal	OK
47	Q2085-06	SC-1-SED-051625MS	MSD	05/21/25 17:51		Jaswal	OK
48	Q2085-04A	SC-1-SED-051625A	PS	05/21/25 17:54		Jaswal	OK
49	Q2085-07	SC-COMP-SED-0516	SAM	05/21/25 17:56		Jaswal	OK
50	Q2085-08	DUPE-1-SC	SAM	05/21/25 18:00		Jaswal	OK
51	CCV04	CCV04	CCV	05/21/25 18:04		Jaswal	OK
52	CCB04	CCB04	CCB	05/21/25 18:16		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135893

Review By	jaswal	Review On	5/23/2025 1:54:21 AM
Supervise By	Janvi	Supervise On	5/23/2025 9:40:48 AM

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	05/22/25 11:38		Jaswal	OK
2	S0	S0	CAL1	05/22/25 12:27		Jaswal	OK
3	S2	S2	CAL3	05/22/25 12:30		Jaswal	OK
4	S3	S3	CAL4	05/22/25 12:37		Jaswal	OK
5	S4	S4	CAL5	05/22/25 12:41		Jaswal	OK
6	S5	S5	CAL6	05/22/25 12:44		Jaswal	OK
7	S6	S6	CAL7	05/22/25 12:48		Jaswal	OK
8	S7	S7	CAL8	05/22/25 12:50		Jaswal	OK
9	S8	S8	CAL9	05/22/25 12:53		Jaswal	OK
10	ICV01	ICV01	ICV	05/22/25 13:26		Jaswal	OK
11	LLICV01	LLICV01	LLICV	05/22/25 13:33		Jaswal	OK
12	ICB01	ICB01	ICB	05/22/25 13:40		Jaswal	OK
13	ICSA01	ICSA01	ICSA	05/22/25 13:44		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	05/22/25 13:47		Jaswal	OK
15	CCV01	CCV01	CCV	05/22/25 13:50		Jaswal	OK
16	CCB01	CCB01	CCB	05/22/25 13:54		Jaswal	OK
17	CRI	CRI	CRDL	05/22/25 14:01		Jaswal	OK
18	Q1984-16DL	OU4-TS-28-050725DL	SAM	05/22/25 14:05	5X Stright	Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135893

Review By	jaswal	Review On	5/23/2025 1:54:21 AM
Supervise By	Janvi	Supervise On	5/23/2025 9:40:48 AM

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	Q1984-16DUPDL	OU4-TS-28-050725DU	DUP	05/22/25 14:08	5X Stright	Jaswal	OK
20	Q1984-16LDL	OU4-TS-28-050725LD	SD	05/22/25 14:11	25X Stright	Jaswal	OK
21	Q1984-16MSDL	OU4-TS-28-050725MS	MS	05/22/25 14:15	5X Stright	Jaswal	OK
22	Q1984-16MSDDL	OU4-TS-28-050725MS	MSD	05/22/25 14:18	5X Stright	Jaswal	OK
23	Q1984-16ADL	OU4-TS-28-050725AD	PS	05/22/25 14:21	5X Stright	Jaswal	OK
24	CCV02	CCV02	CCV	05/22/25 14:24		Jaswal	OK
25	CCB02	CCB02	CCB	05/22/25 14:32		Jaswal	OK

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167933

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 115525

Start Prep Date : 05/09/2025 **Time :** 17:20

End Prep Date : 05/10/2025 **Time :** 11:35

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	WP112802	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	N/A	W3166,W1938,W1939,
N/A	N/A	N/A
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-2 checked,30 rpm. q1984-16 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/12/25 11:30	JP Tech Room	SIGN. IMS
	Preparation Group	Analysis Group DJ4

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167933

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167933TB	LEB933	19	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2
Q1984-02	OU4-PCS-TC-33-050725	11	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1984-04	OU4-PCS-TC-34-050725	12	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1984-06	OU4-PCS-TC-35-050725	13	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1984-08	OU4-TS-24-050725	14	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-2
Q1984-10	OU4-TS-25-050725	15	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1984-12	OU4-TS-26-050725	16	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1984-14	OU4-TS-27-050725	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1984-16	OU4-TS-28-050725	18	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167933TB	LEB933	N/A	N/A	N/A	N/A	N/A	N/A
Q1984-02	OU4-PCS-TC-33-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-04	OU4-PCS-TC-34-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-06	OU4-PCS-TC-35-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-08	OU4-TS-24-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-10	OU4-TS-25-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-12	OU4-TS-26-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-14	OU4-TS-27-050725	N/A	N/A	N/A	N/A	100	N/A
Q1984-16	OU4-TS-28-050725	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB167933

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167933TB	LEB933	N/A	N/A	N/A	N/A	#1	4.24
Q1984-02	OU4-PCS-TC-33-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-04	OU4-PCS-TC-34-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-06	OU4-PCS-TC-35-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-08	OU4-TS-24-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-10	OU4-TS-25-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-12	OU4-TS-26-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-14	OU4-TS-27-050725	N/A	N/A	N/A	N/A	#1	4.24
Q1984-16	OU4-TS-28-050725	N/A	N/A	N/A	N/A	#1	4.24

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Prep Standard - Chemical Standard Summary

Order ID : Q1984

Test : SPLP Mercury,SPLP MetalGroup3

Prepbatch ID : PB167960,PB167978,

Sequence ID/Qc Batch ID: LB135763,LB135886,LB135893,

Standard ID :
MP85156,MP85240,MP85241,MP85242,MP85243,MP85577,MP85579,MP85580,MP85581,MP85582,MP85583,MP85584,MP85592,MP85594,MP85595,MP85602,MP85604,MP85605,MP85606,MP85607,MP85608,MP85641,MP85642,MP85643,MP85644,MP85645,MP85647,MP85648,MP85649,MP85650,MP85651,MP85652,MP85653,MP85654,MP85655,MP85656,MP85657,MP85658,MP85659,

Chemical ID :
M4251,M4465,M4916,M5062,M5305,M5470,M5520,M5658,M5697,M5739,M5751,M5798,M5799,M5800,M5801,M5811,M5815,M5817,M5873,M5874,M5884,M5942,M5961,M5962,M5977,M5981,M6021,M6023,M6025,M6026,M6028,M6030,M6032,M6041,M6055,M6079,M6086,M6127,M6128,M6137,M6142,M6144,M6145,M6146,M6150,M6151,M6153,M6158,M6159,M6161,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP85240	04/16/2025	10/16/2025	Mohan Bera	None	None	Sarabjit Jaswal 04/29/2025

FROM 1600.00000ml of M6041 + 800.00000ml of M6158 = Final Quantity: 3200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP85241	04/16/2025	10/16/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/29/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP85242	04/16/2025	08/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/29/2025

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP85243	04/16/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/29/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4251 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	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

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

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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	MP85581	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 5.00000ml of M5470 + 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 MP85577 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3881	M&B SPIKE-2	MP85582	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 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 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
3882	M&B SPIKE-3	MP85583	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 0.62500ml of M6026 + 12.50000ml of M5697 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP85577 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3900	M&B SPIKE-4	MP85584	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 6.25000ml of M6086 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP85577 = 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
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

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

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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)	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

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

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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)	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

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

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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)	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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	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

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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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP85647	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 1.00000ml of M6158 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP85648	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP85649	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85647 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP85650	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 245.00000ml of W3112 + 2.50000ml of MP85647 = Final Quantity: 250.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP85651	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 242.50000ml of W3112 + 5.00000ml of MP85647 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP85652	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 240.00000ml of W3112 + 7.50000ml of MP85647 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP85653	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 237.50000ml of W3112 + 10.00000ml of MP85647 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP85654	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 2.50000ml of M6161 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP85655	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP85656	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6158 + 10.00000ml of MP85647 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP85657	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6158 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP85658	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85647 = 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
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP85659	05/13/2025	05/14/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 05/13/2025

FROM 2.50000ml of M6158 + 240.50000ml of W3112 + 7.00000ml of MP85647 = 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 #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	12/19/2018 / mohan	12/05/2018 / mohan	M4251

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / mohan	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	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.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

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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.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

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CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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CHEMICAL RECEIPT LOG BOOK

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.	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

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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.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	01/15/2025 / Jaswal	09/30/2024 / Jaswal	M6079

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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.	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.	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSR10 / Strontium (SR), 125mL 10,000ppm	V2-SR754329	02/28/2026	02/28/2025 / JANVI	01/07/2025 / JANVI	M6153

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / 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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV 5 0415	07/31/2025	05/01/2025 / mohan	03/30/2024 / mohan	M6161

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 / lwona	07/03/2024 / lwona	W3112

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

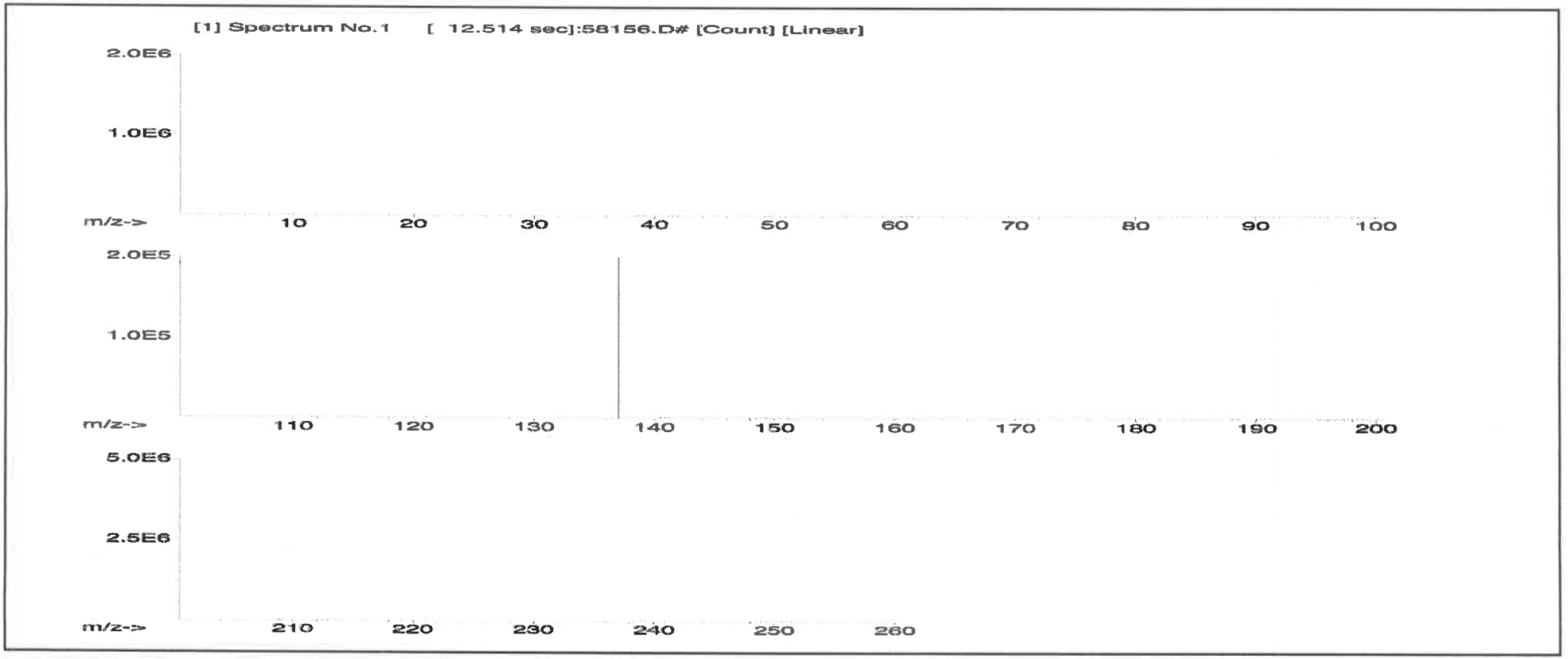
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**010924**				
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
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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Q1984-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	<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.
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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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Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

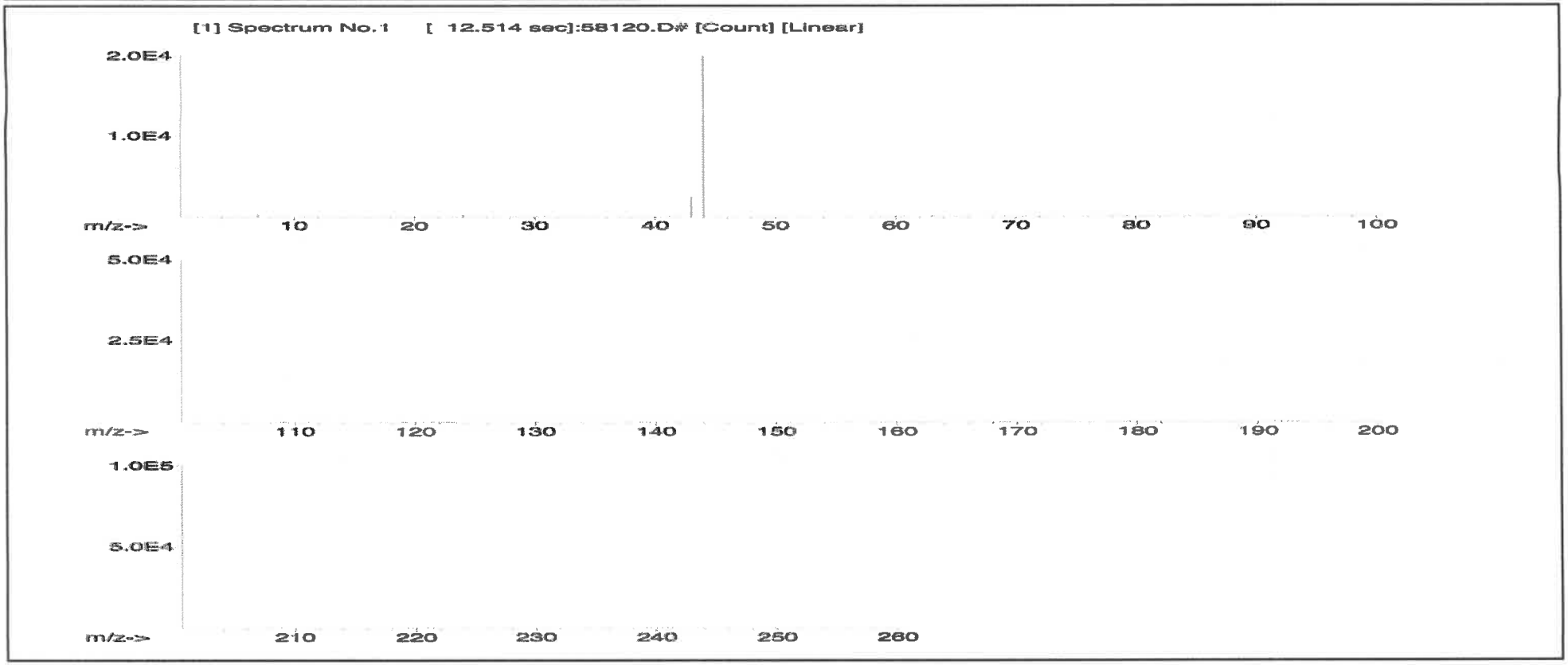
Part Number:	**58120**		**Solvent:**	24002546	Nitric Acid
Lot Number:	**082324**				
Description:	**Calcium (Ca)**		2%	80.0 (mL)	Nitric Acid
Expiration Date:	082327				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

Lot #

Giovanni Esposito

Formulated By:	Giovanni Esposito	082324
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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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.

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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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M6028

R 8/15/24

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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

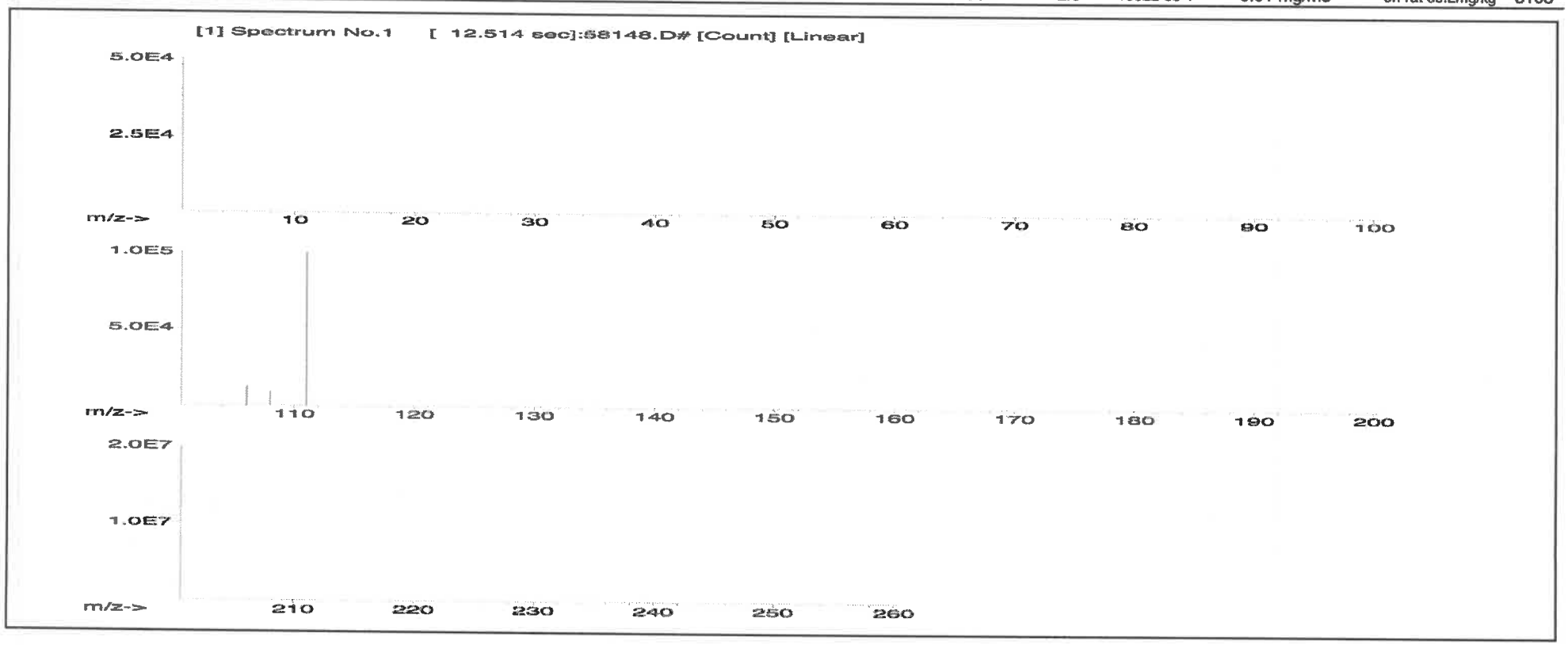
Weight shown below was diluted to (mL): 2000.07 ± 0.100 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 070124

Pedro Rentas
Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

R : 01/03/24. M5810, M5811

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

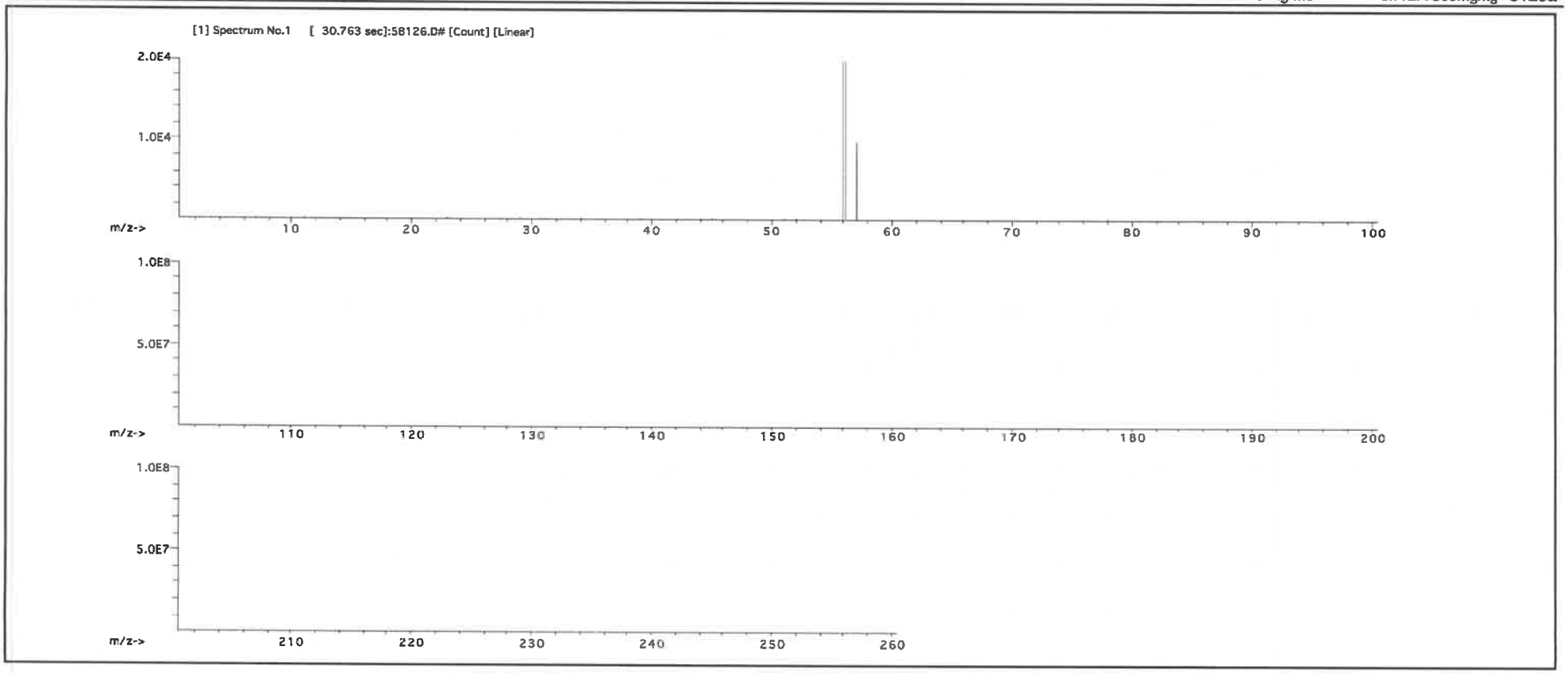
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1

	Lot #		
Solvent:	21110221	Nitric Acid	
5.0%	250.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.12	Flask Uncertainty		

Giovanni Esposito
Formulated By: Giovanni Esposito 051523

Pedro Rentas
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:

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Certified Reference Material CRM

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

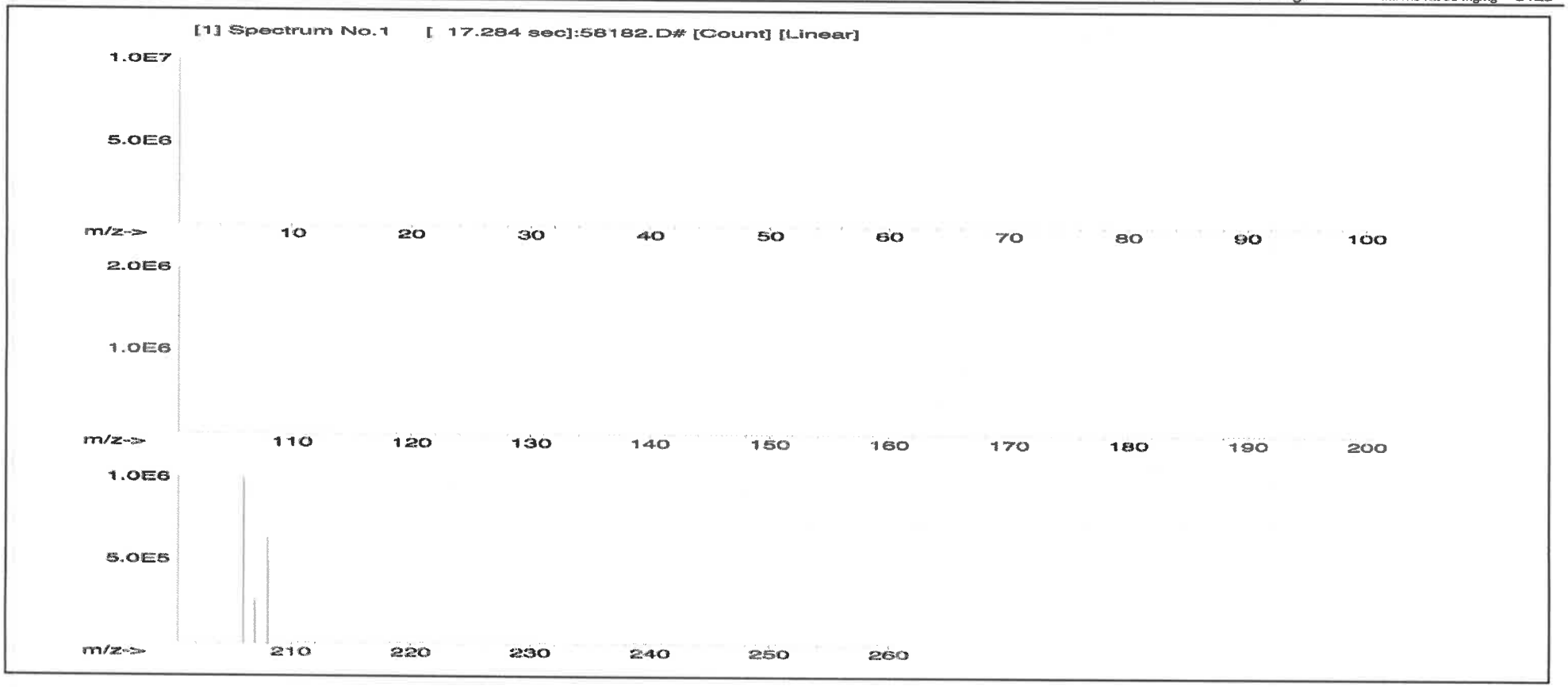
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	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:

Certified by:

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Certified Reference Material CRM

M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

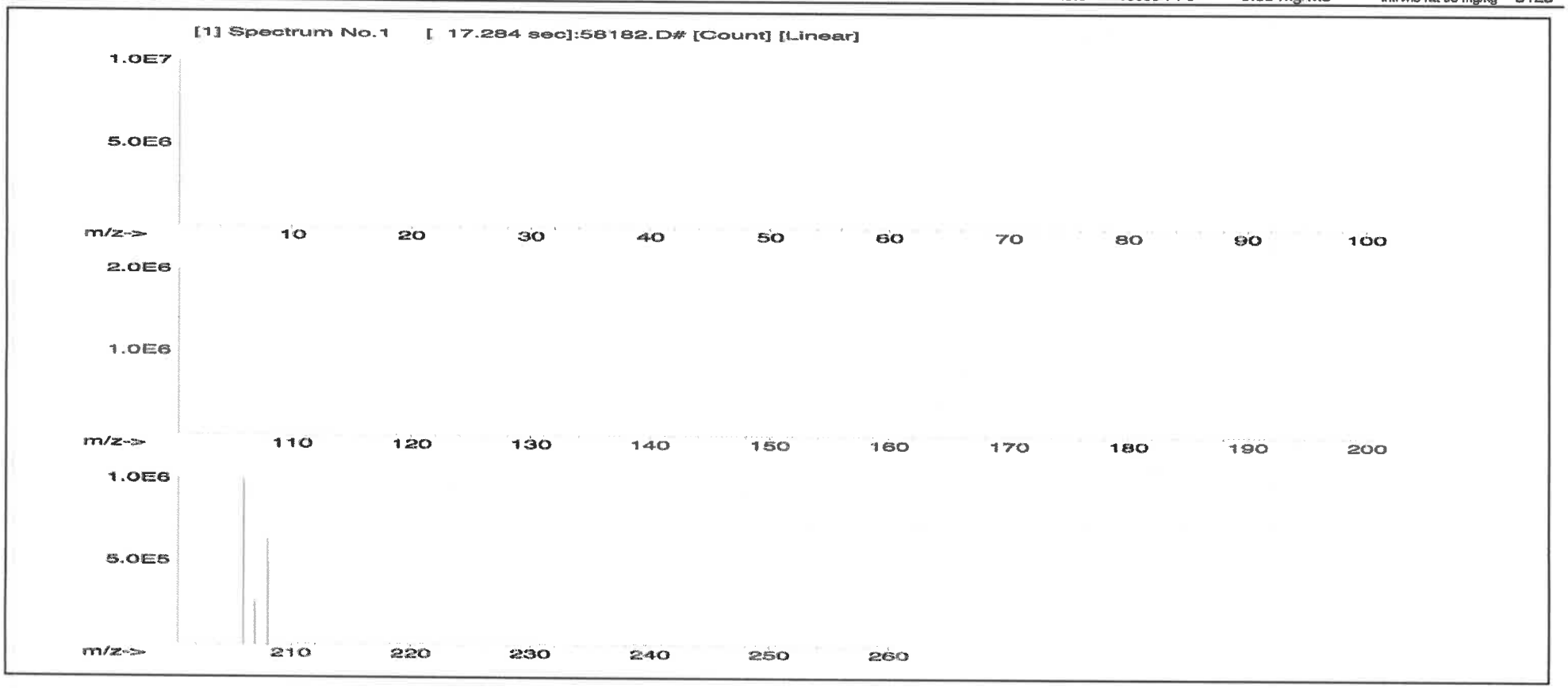
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Trace Metals Verification by ICP-MS (µg/mL)																	
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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	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

M4251
JB

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4913-16
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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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

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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

M519. M520 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)

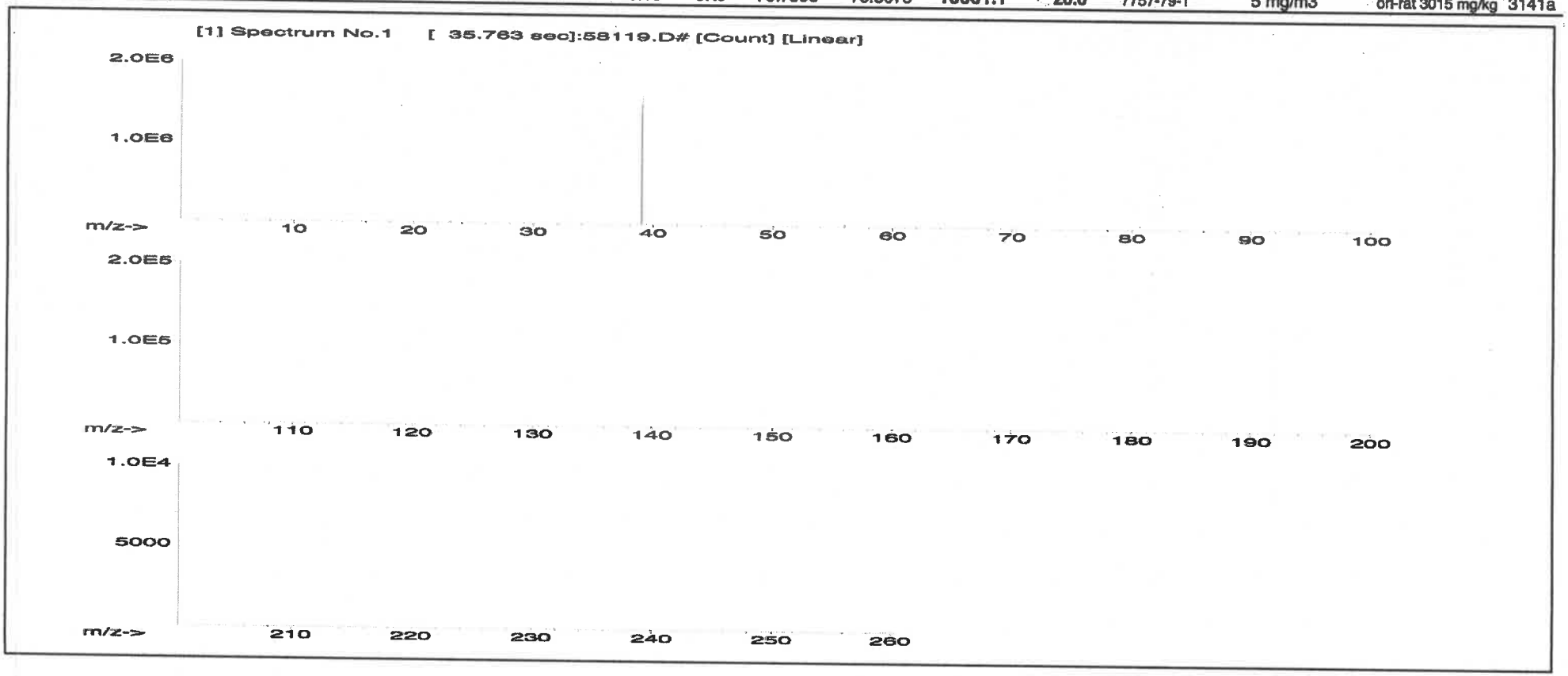
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.06	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 120822

Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Absolute Standards, Inc.
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	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are 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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M5658 R ! 8/25/23

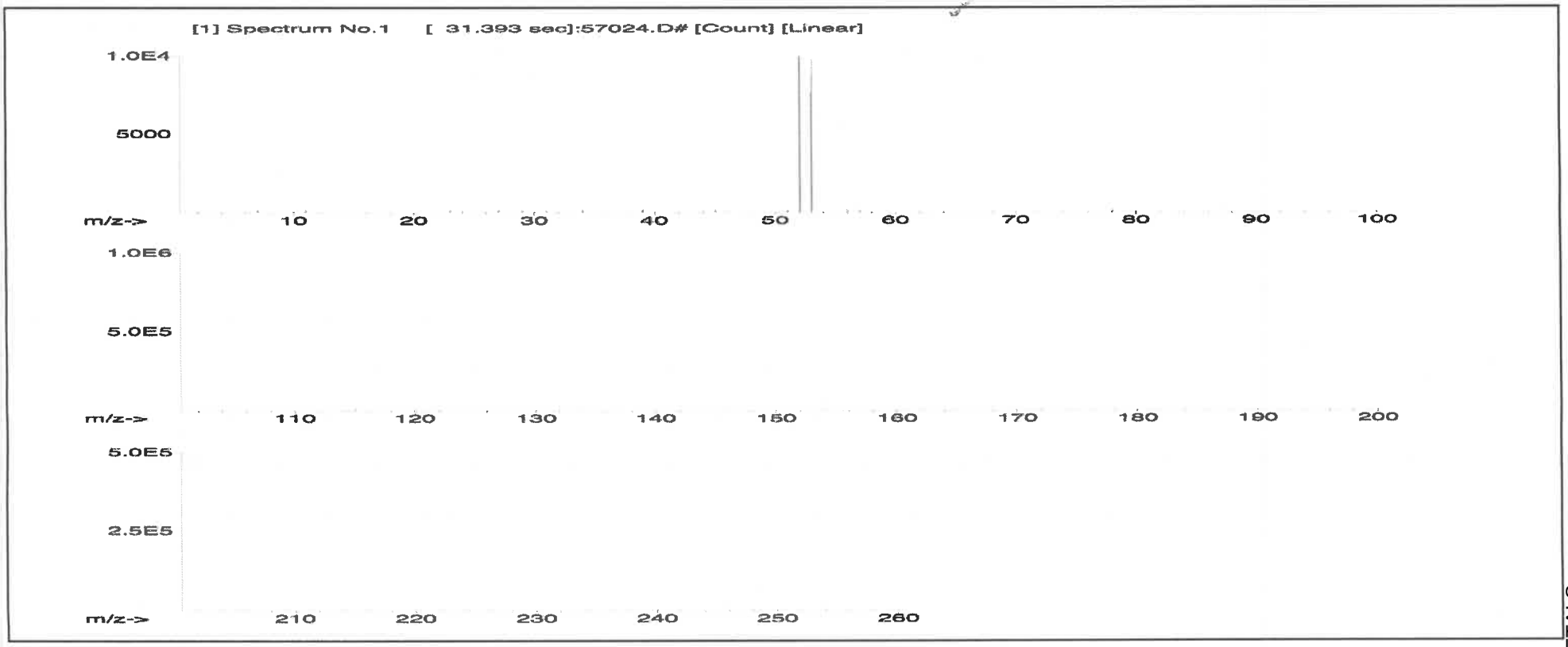
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CERTIFIED WEIGHT REPORT:

		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.
* 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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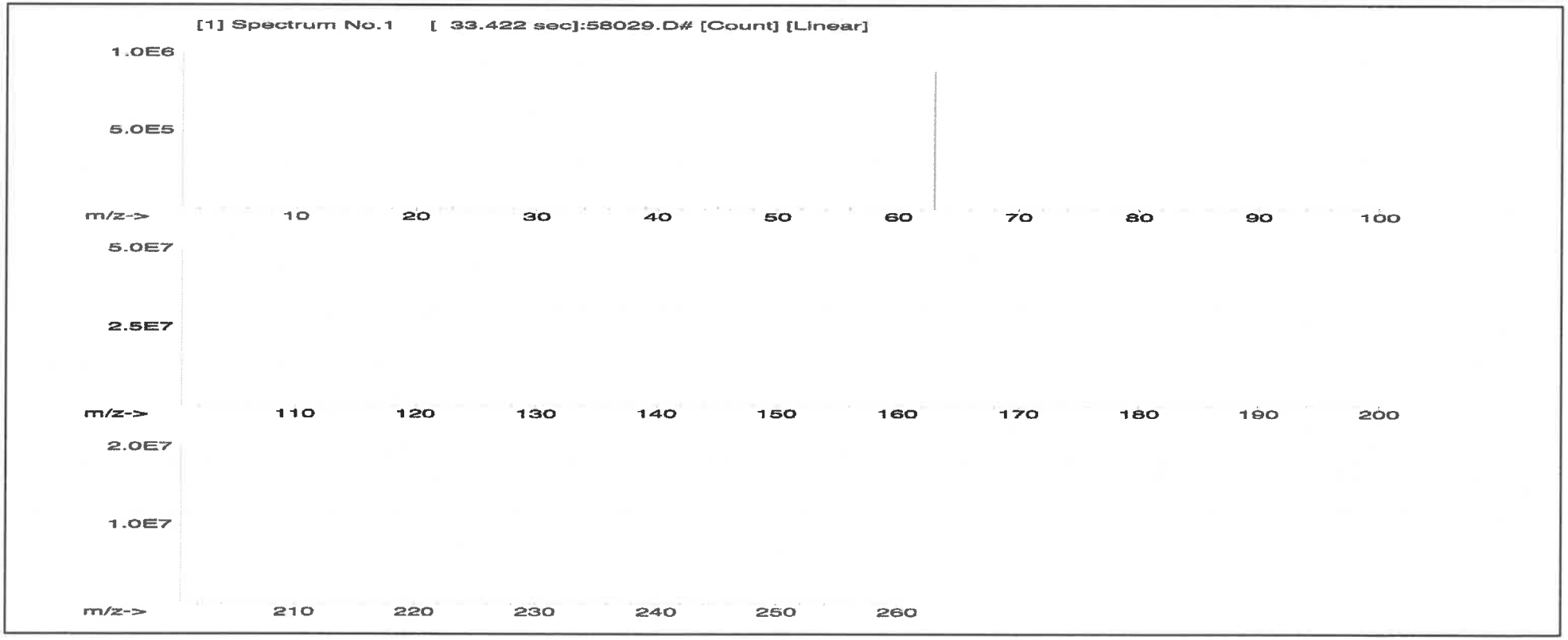
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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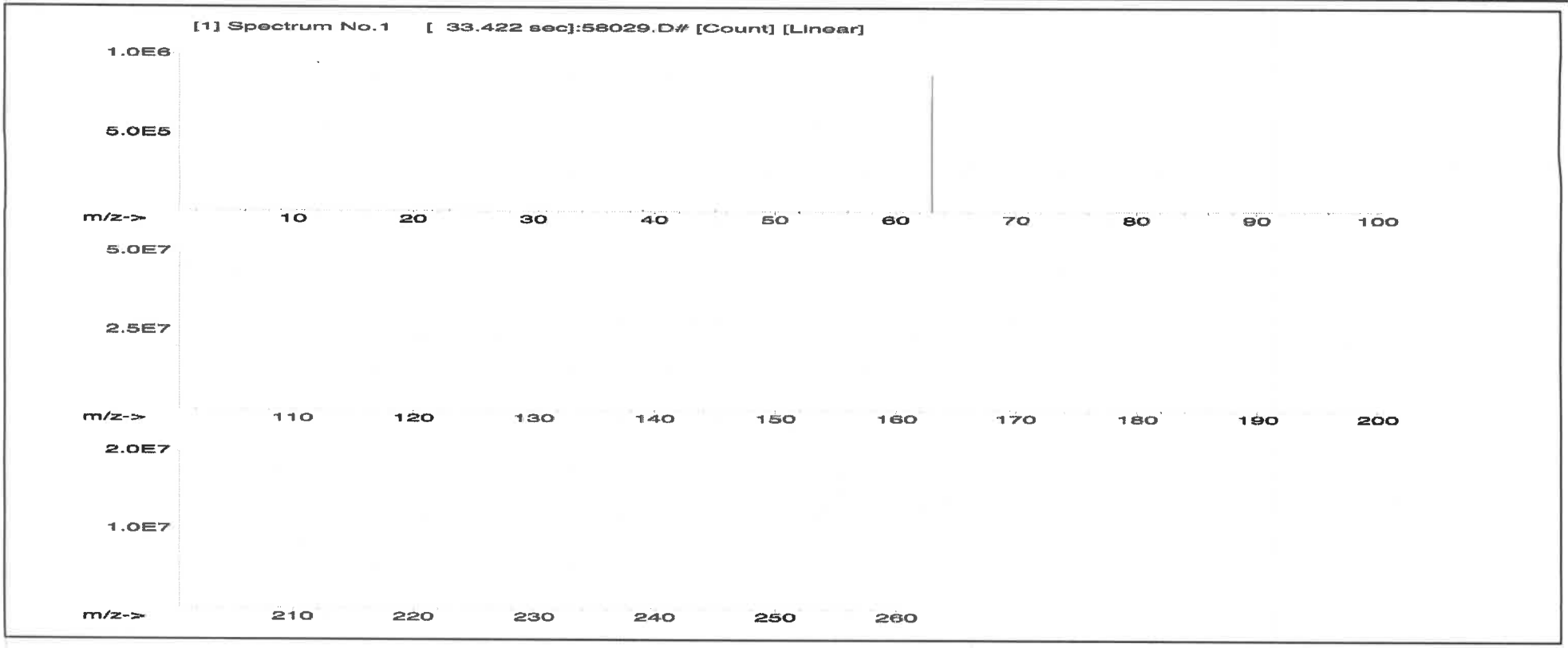
CERTIFIED WEIGHT REPORT:

Part Number:	**58029**		**Lot #**	**Solvent:**	
Lot Number:	**071723**		21110221	Nitric Acid	
Description:	**Copper (Cu)**		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

698 of 787

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:



* 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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R: 02/09/24 M5798

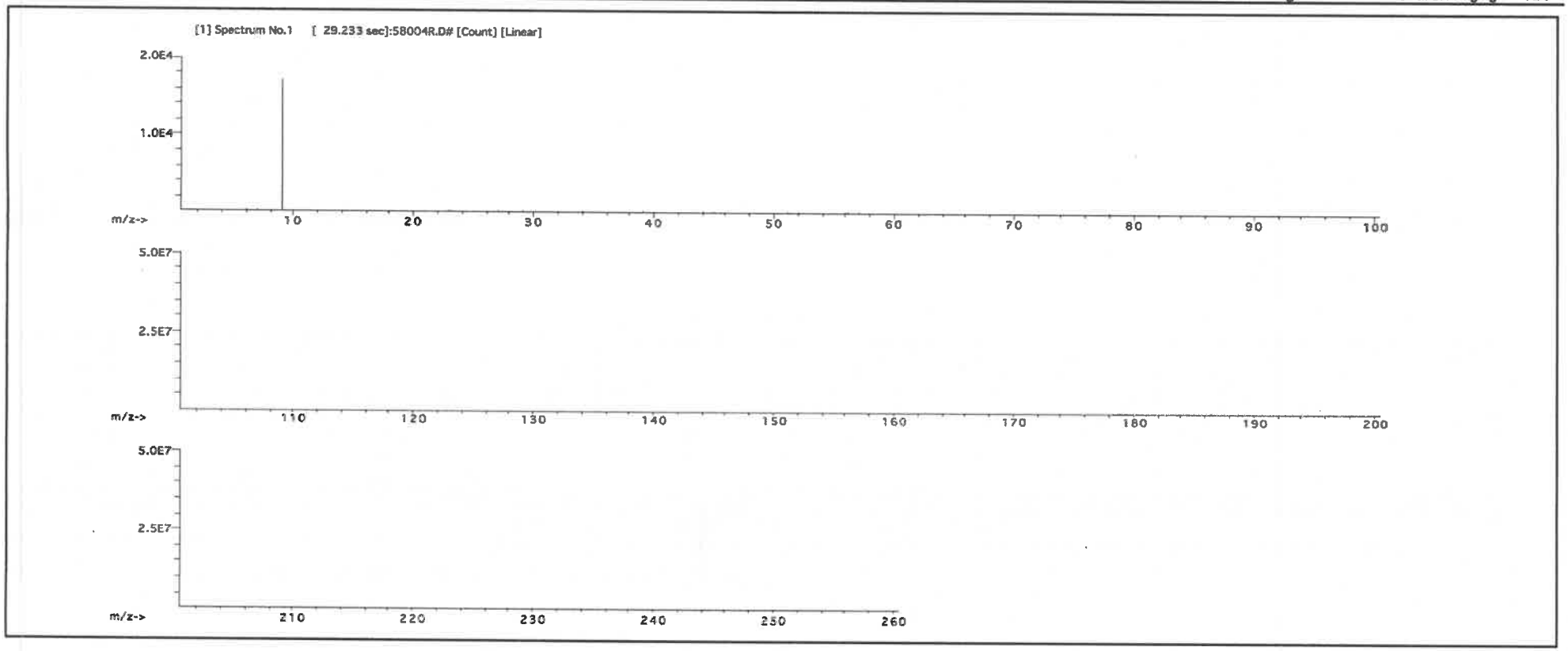
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**			
Lot Number:	**102523**	24002546	Nitric Acid	
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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* 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 WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

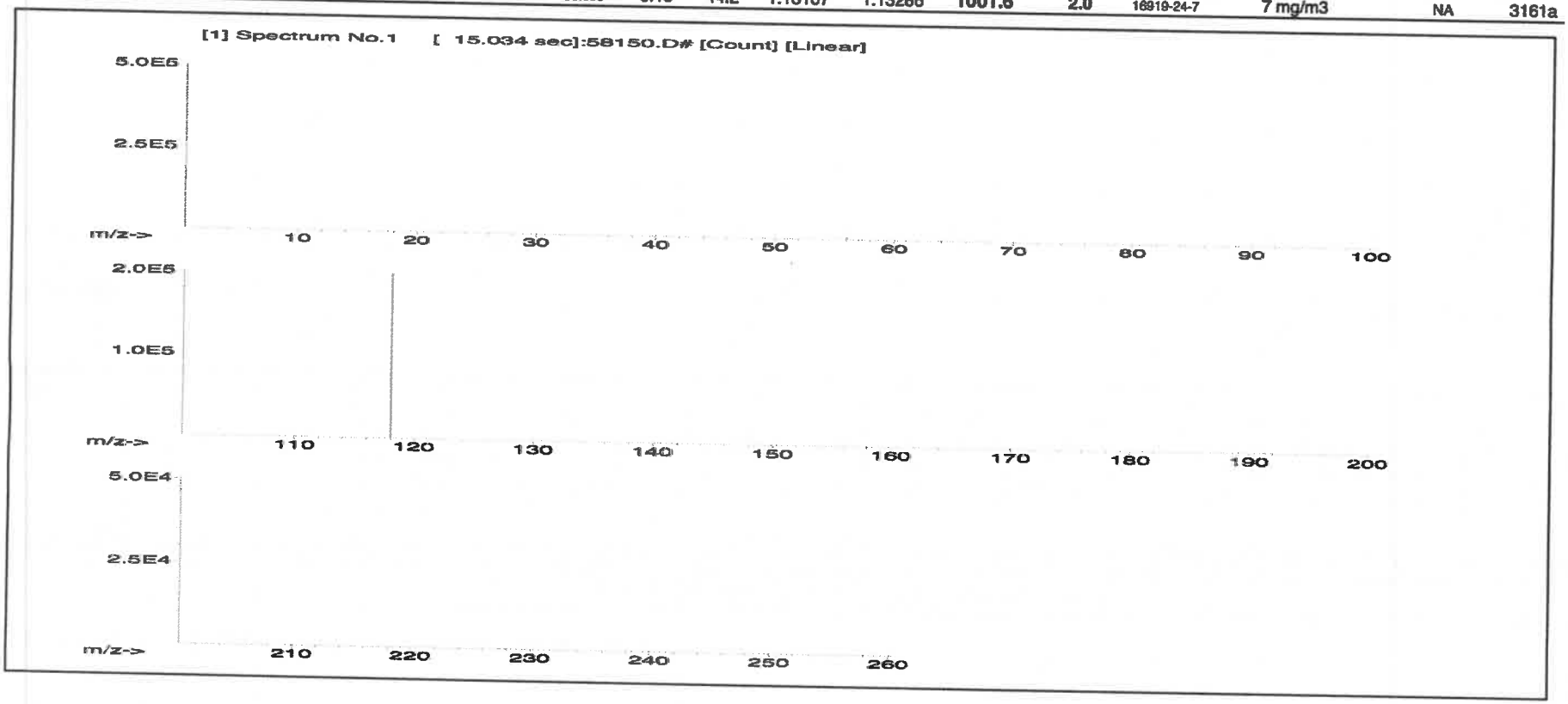
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

Solvents:	Lot #	
	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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: 02/09/24 IM5800 BH

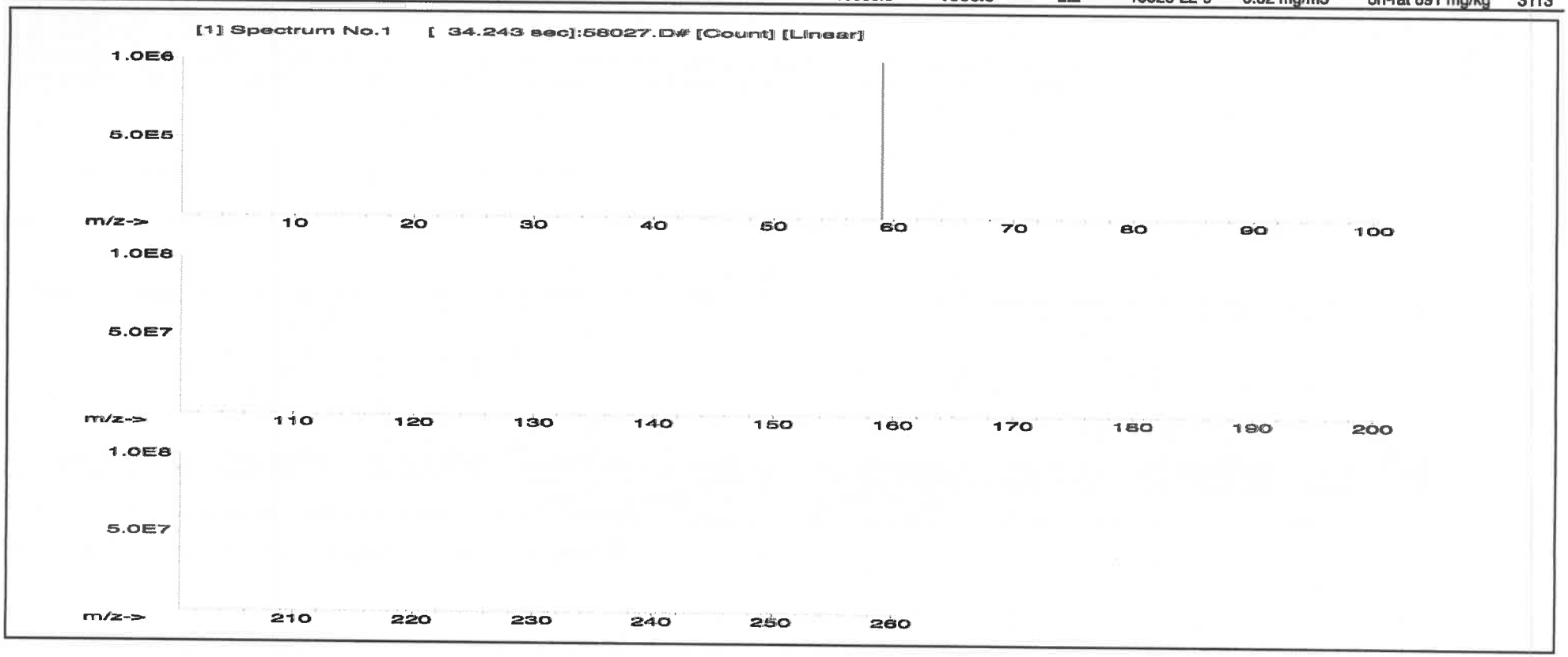
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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: 02/09/24 M5801 BH

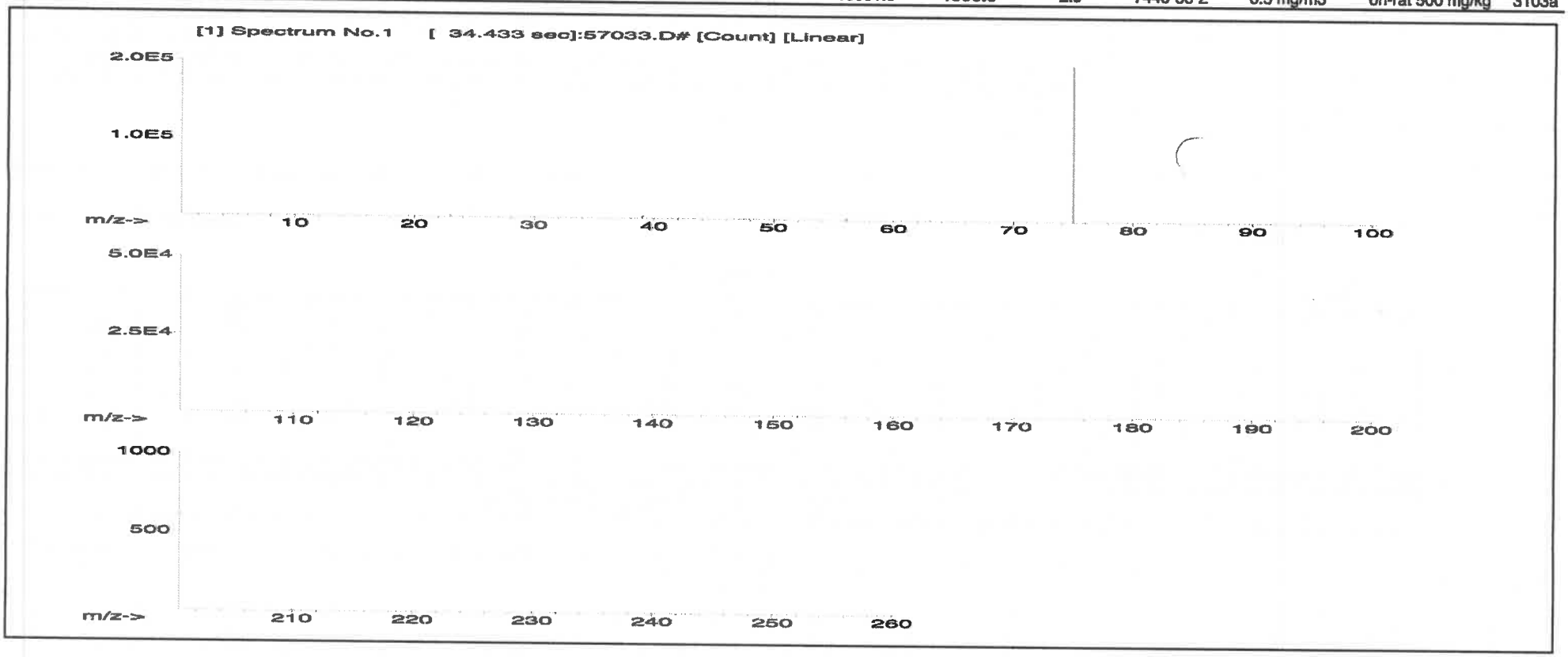
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CERTIFIED **WEIGHT** REPORT:

		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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R1 02/09/24. M58165

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CERTIFIED WEIGHT REPORT:

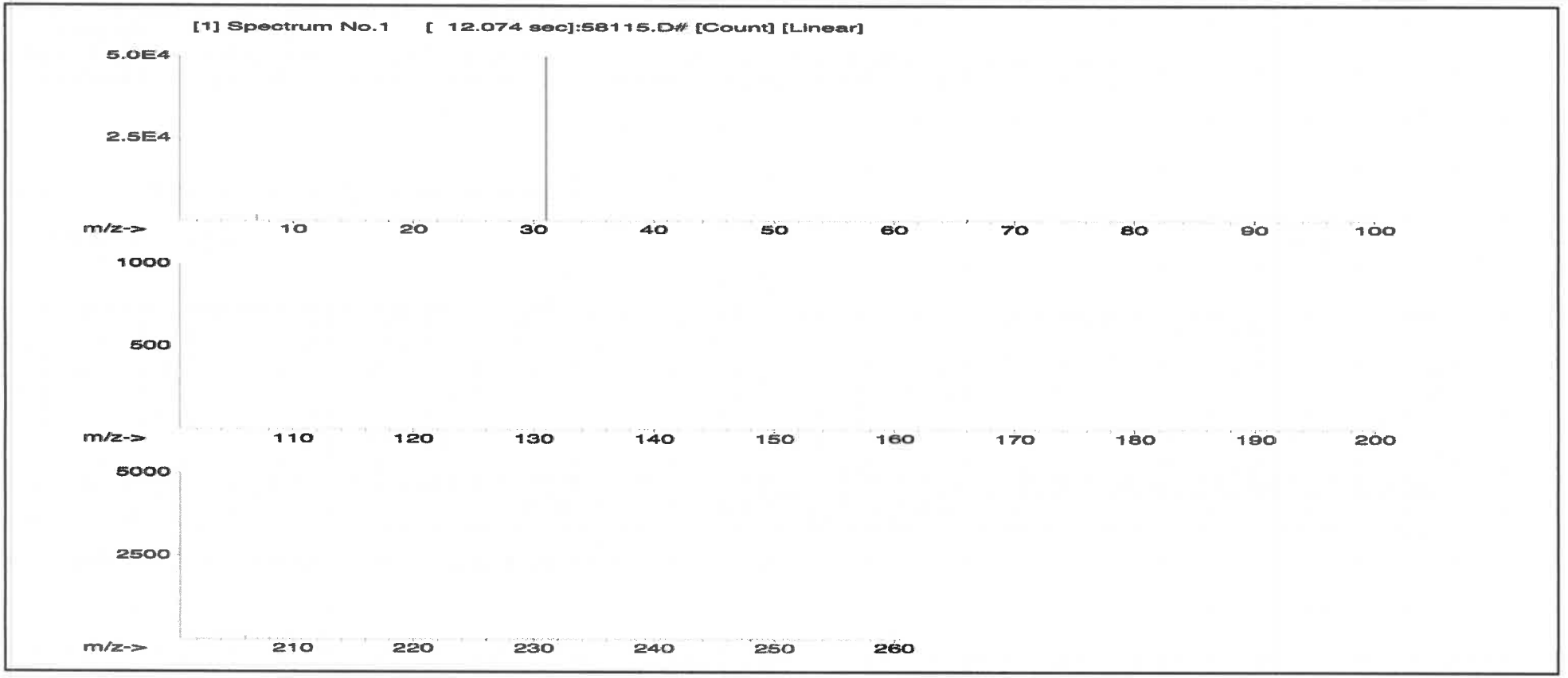
Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Expiration Date: 041726
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:	21110221		Nitric Acid
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance 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:

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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: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

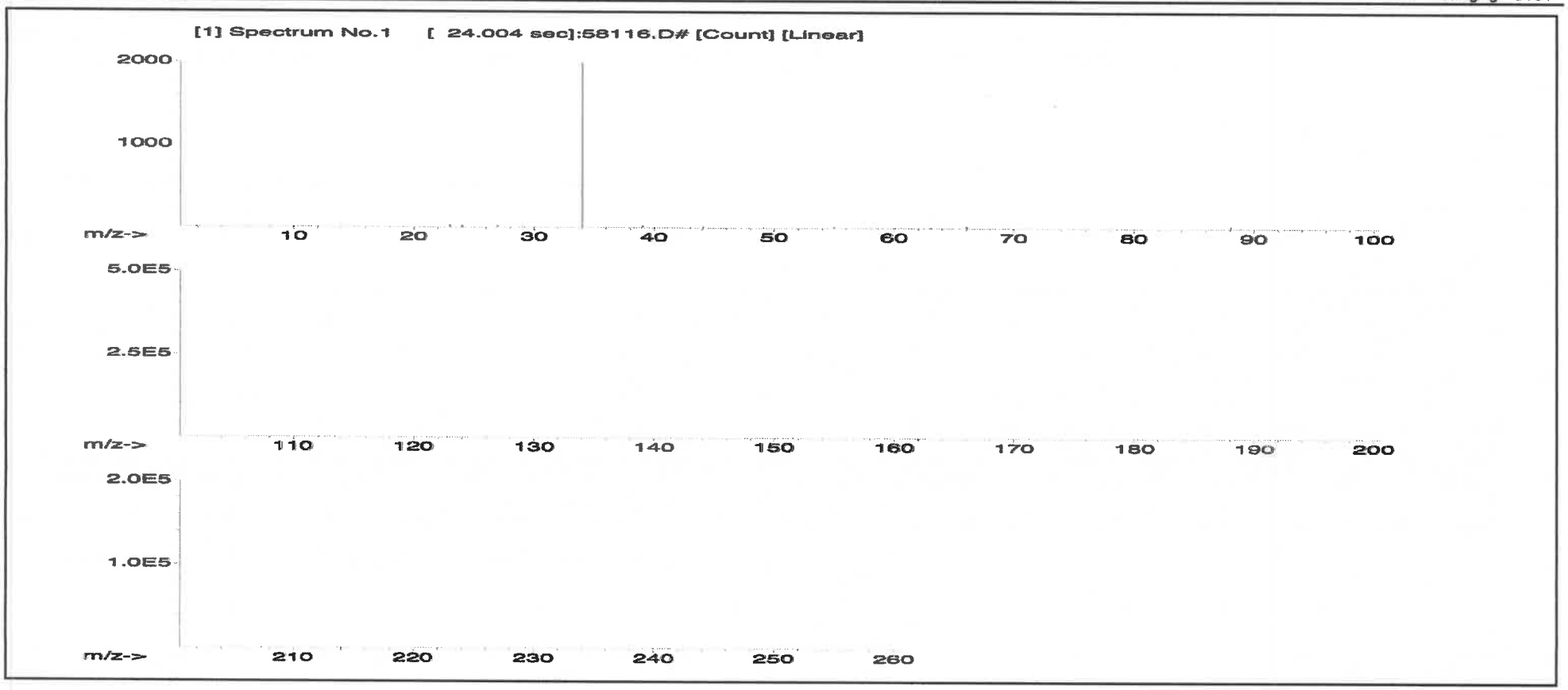
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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Certified by:

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Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5961 R: 6/11/24

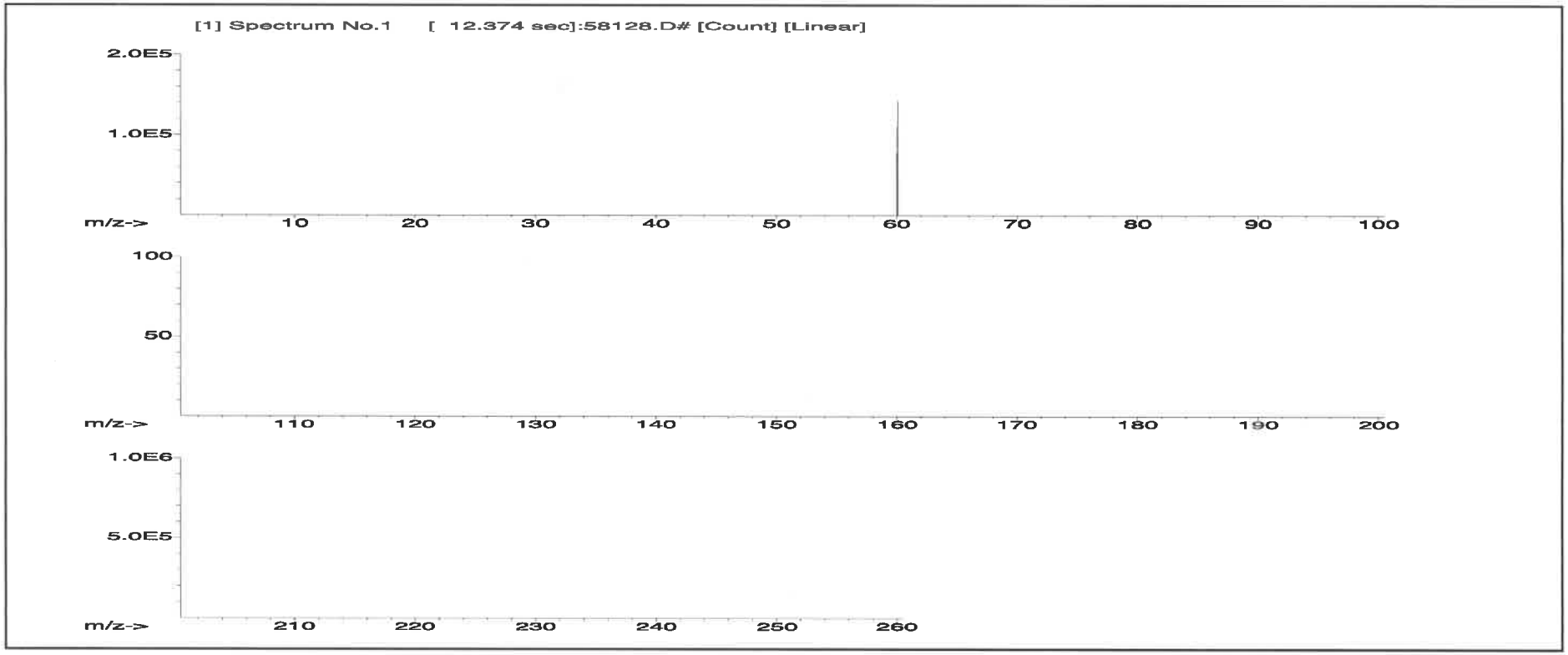
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5962 R! 06/14/24.

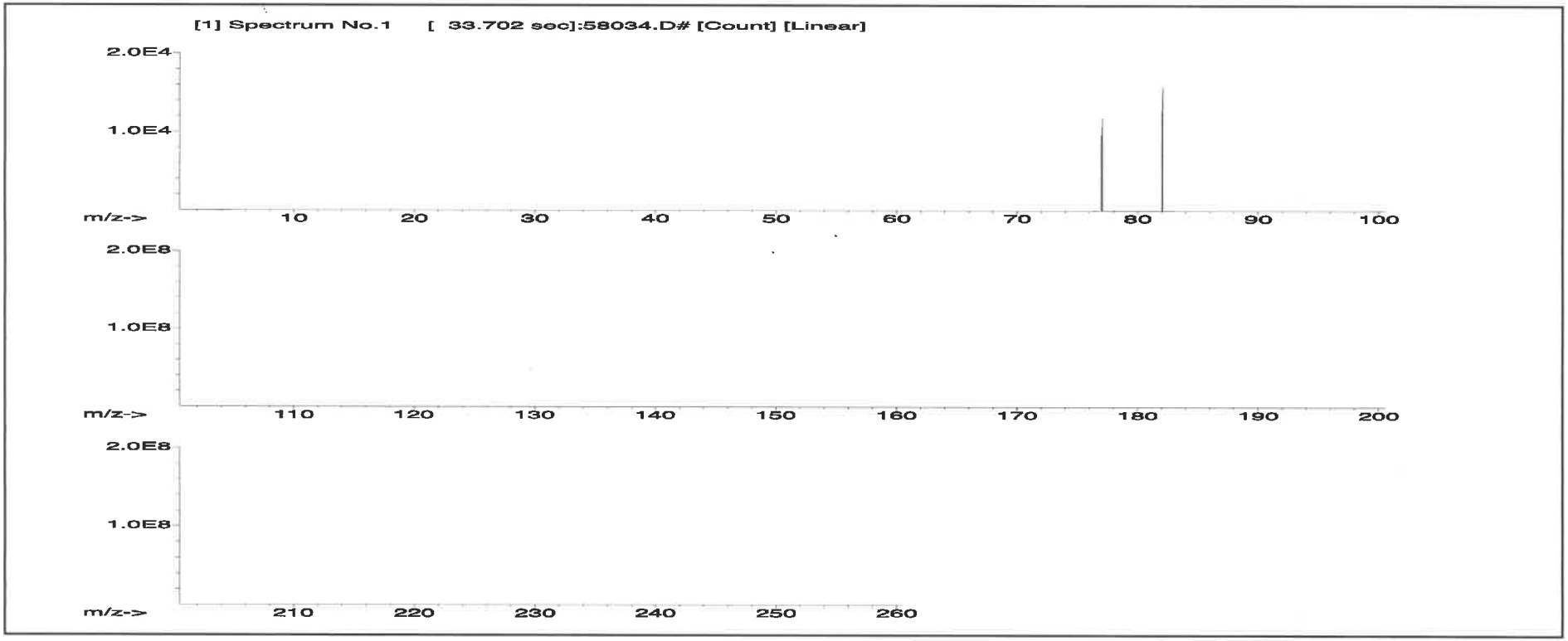
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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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	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).

INORGANIC VENTURES
Refine your results. Redefine your industry.

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,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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	

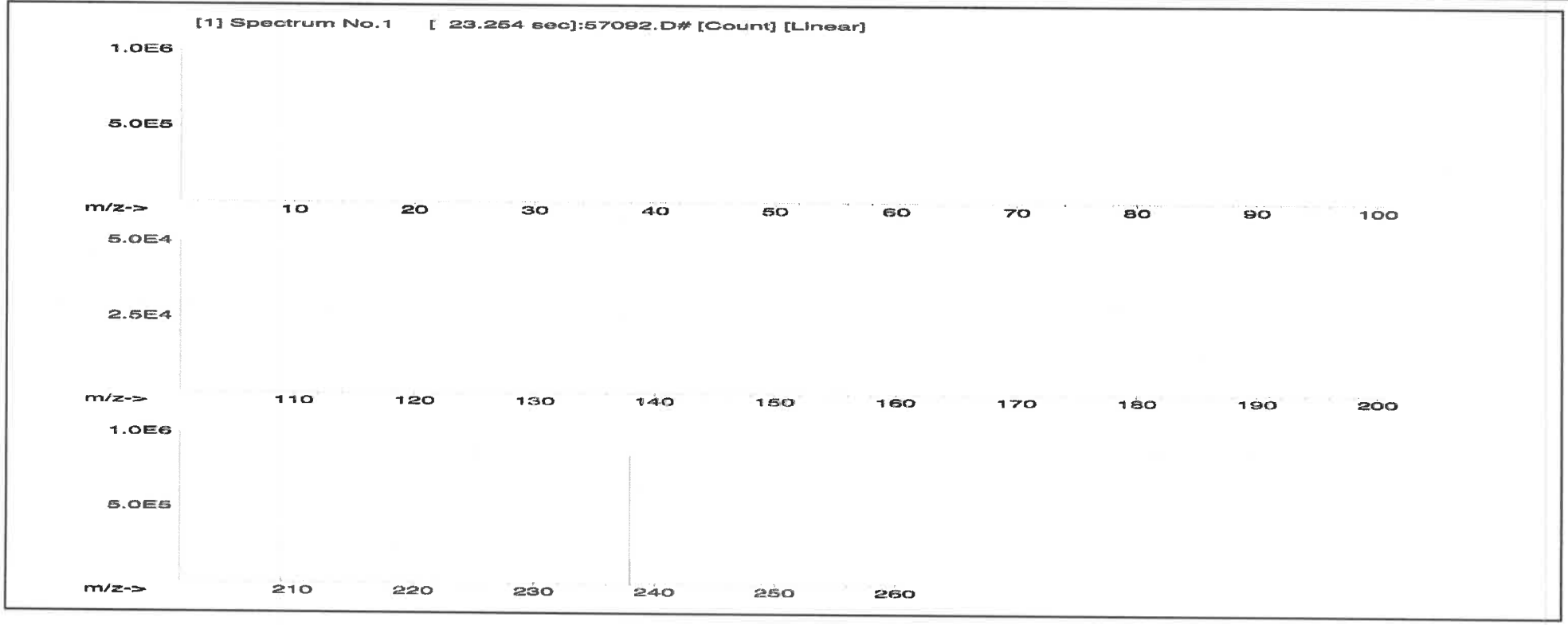
Giovanni Esposito

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



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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	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.
* 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).

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

A 8/19/24, M60055

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

M6079 R: 9/30/24

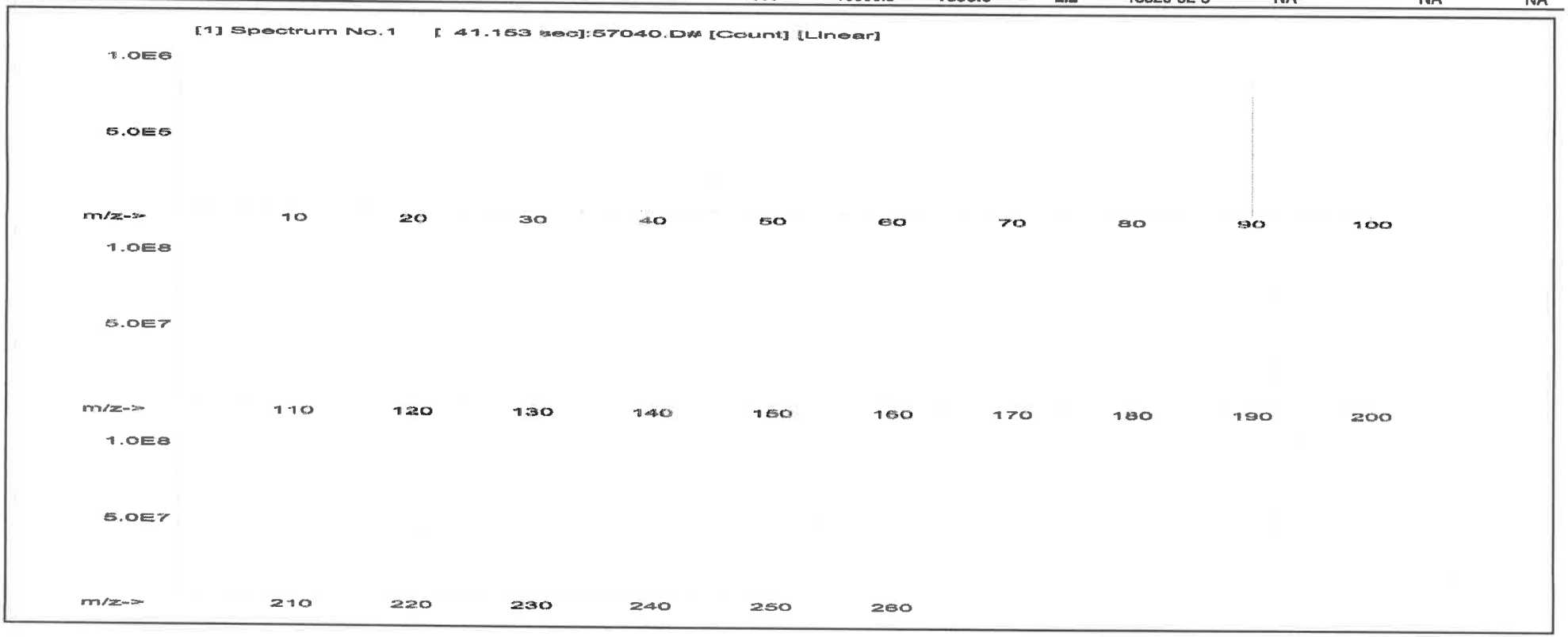
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57040**	21110221	Nitric Acid		
Lot Number:	**071423**				
Description:	**Zirconium (Zr)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	071426				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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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	<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.
* 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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https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R -> 1/13/25
M 6127

Part Number: 58112
Lot Number: 112124
Description: Magnesium (Mg)

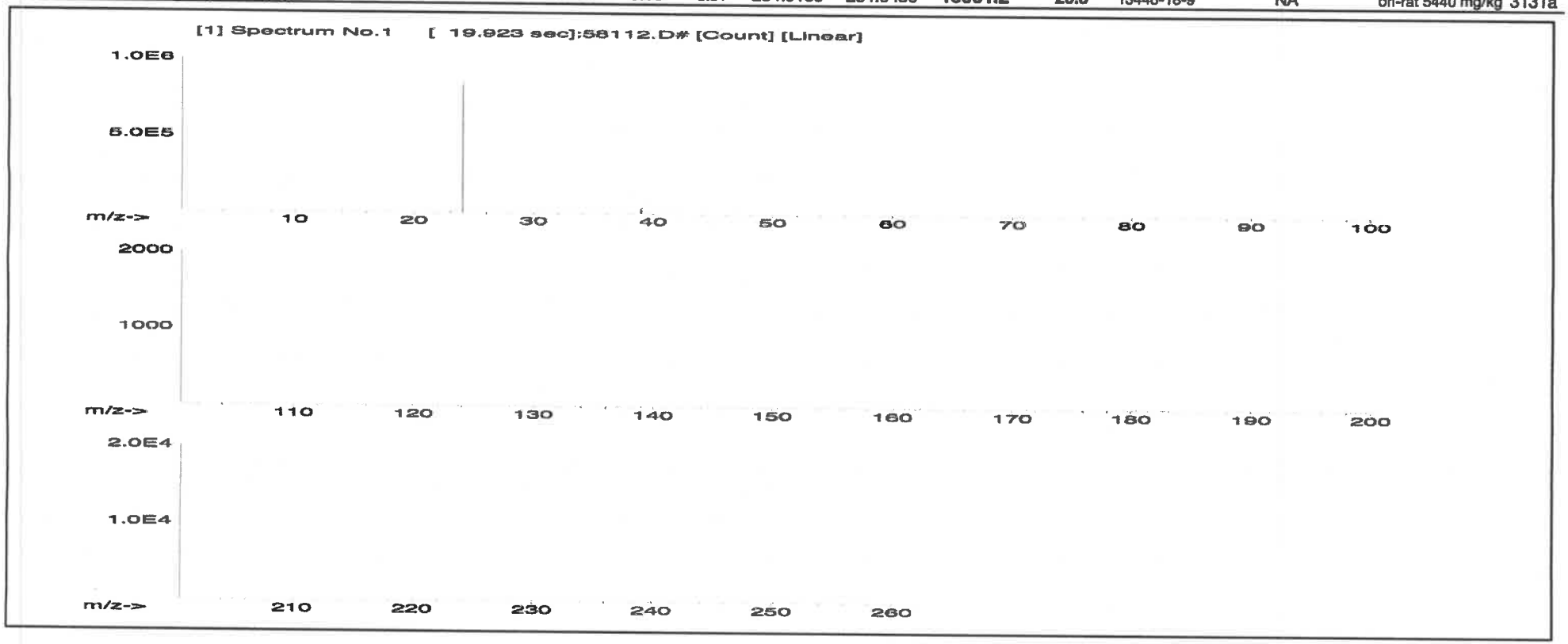
Expiration Date: 112127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.07

	Lot #		
Solvent:	24012496	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 112124
Pedro Rentas
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



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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	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

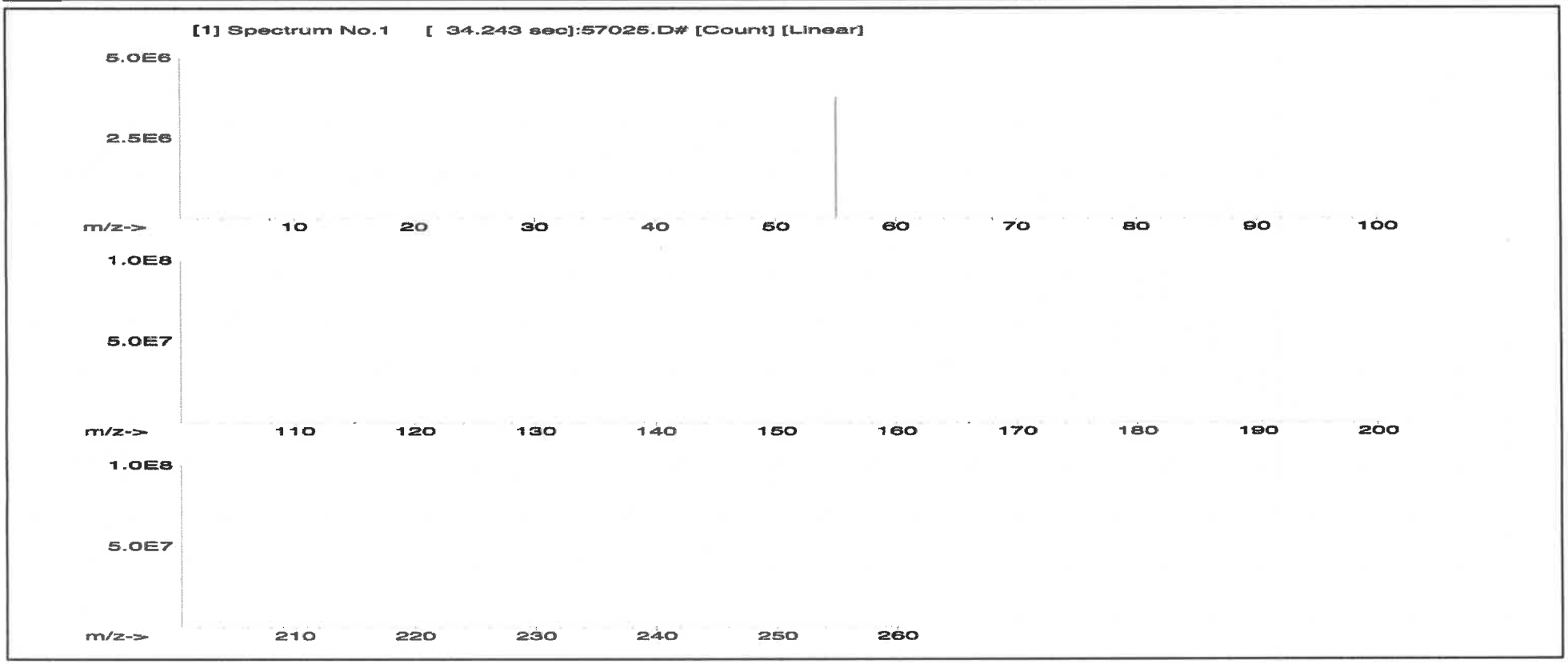
R->1/13/25
M6128

Part Number:	**58025**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**				
Description:	**Manganese (Mn)**		2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	101124
Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

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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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

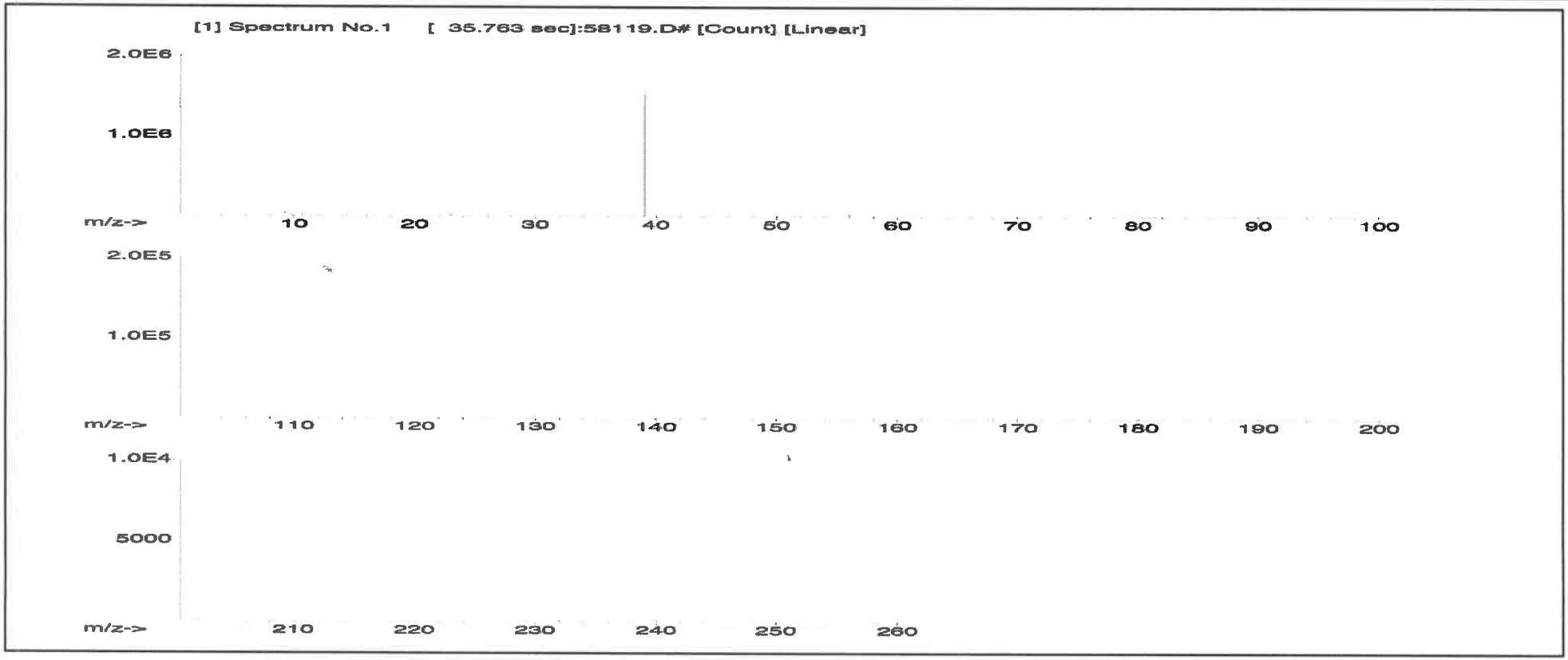
Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito

Formulated By:	Giovanni Esposito	103024
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
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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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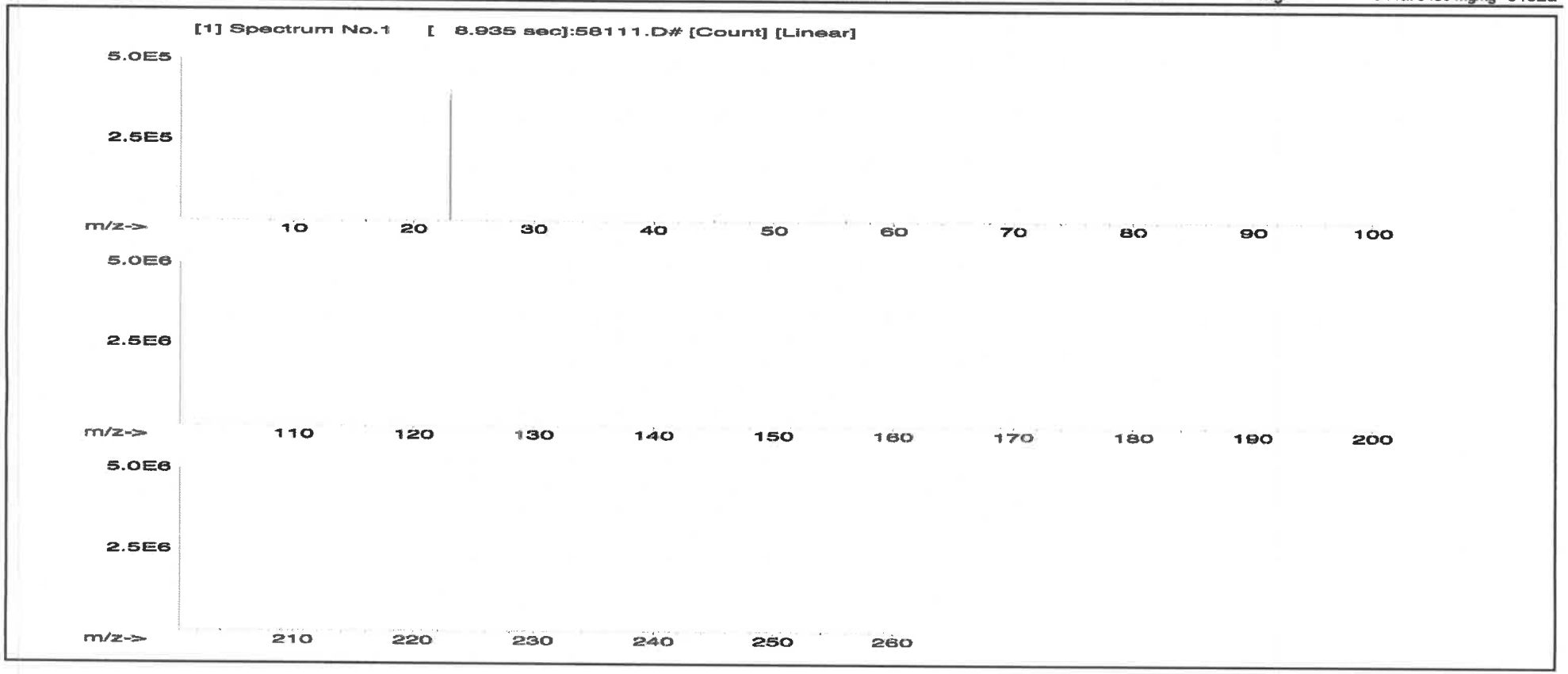
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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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	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

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

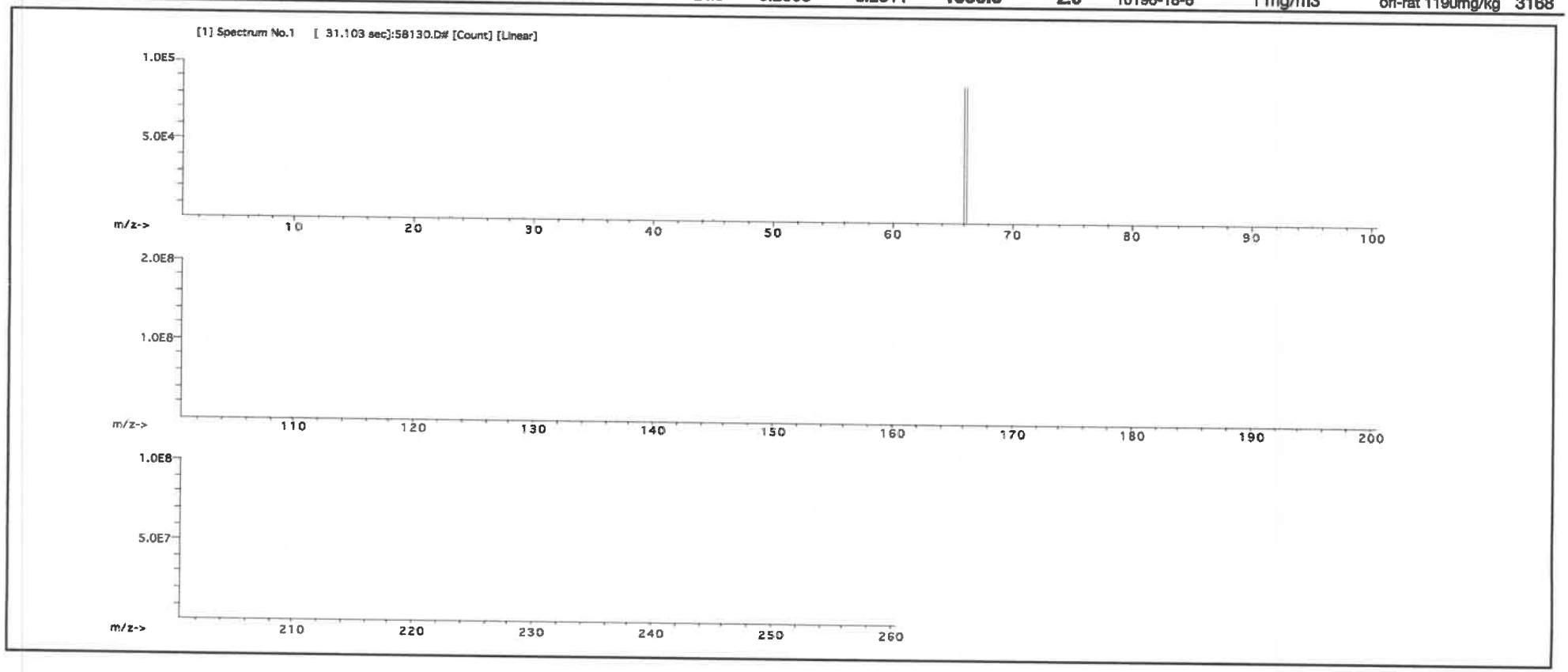
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

				Lot #	
Solvent:	24012496	Nitric Acid			
	2%	40.0 (mL)	Nitric Acid		
		5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



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Certified Reference Material CRM

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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)

M6150

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

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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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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 %
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

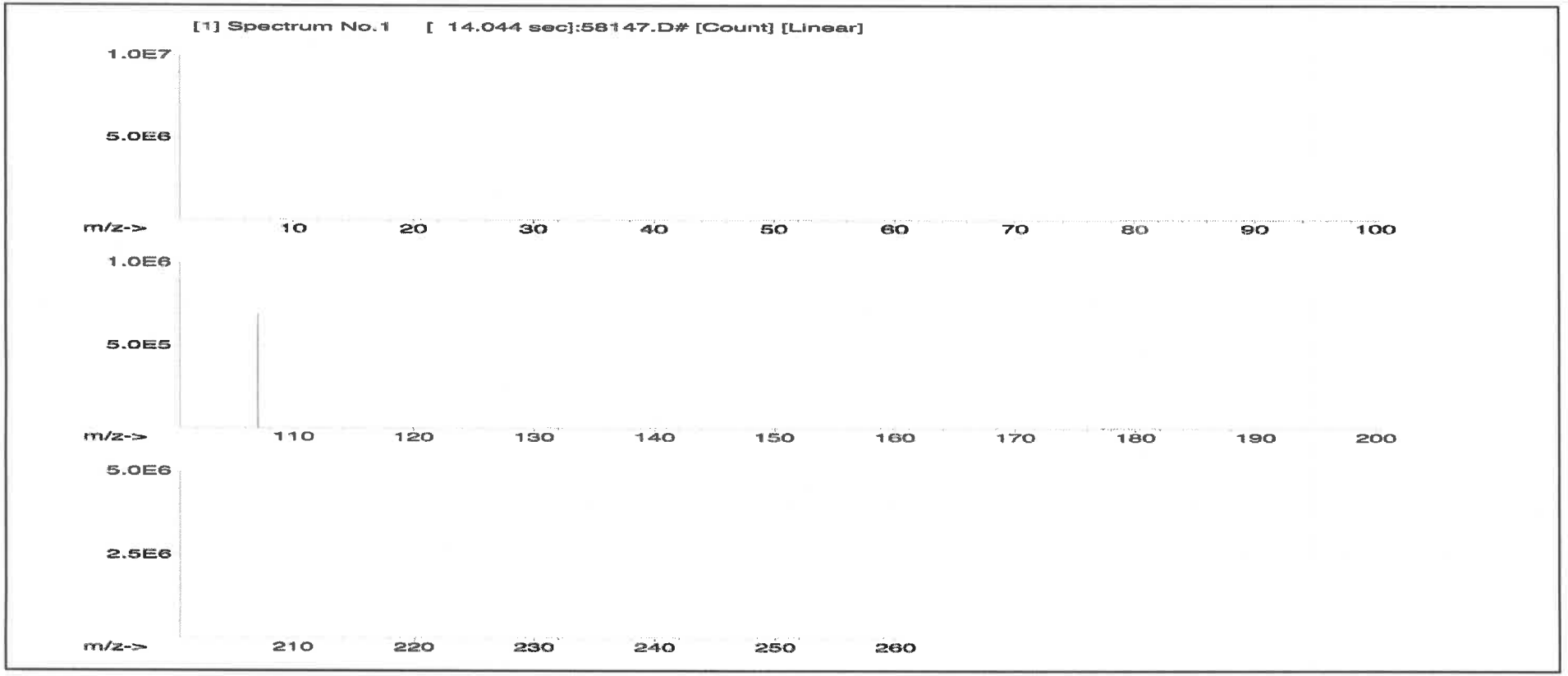
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

		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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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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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

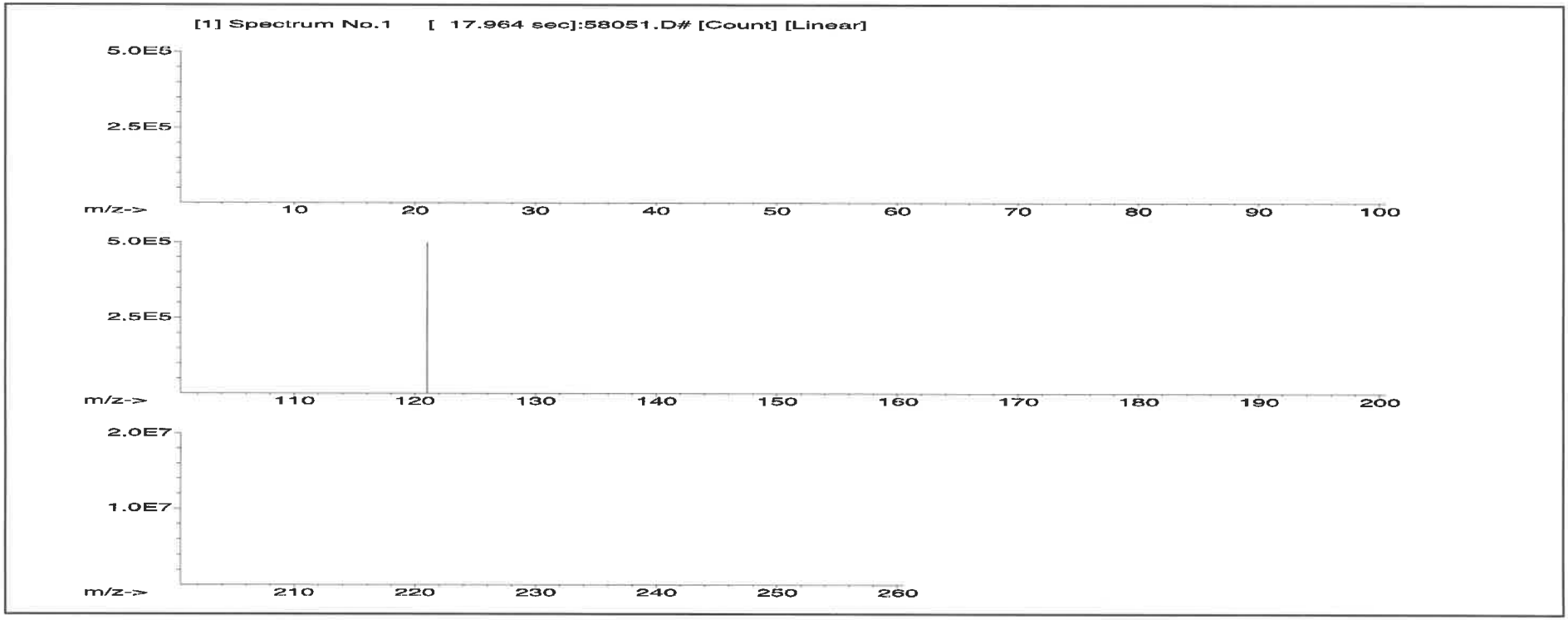
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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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).

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**998 ± 4 µg/mL** ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	**1001 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**1001 ± 2 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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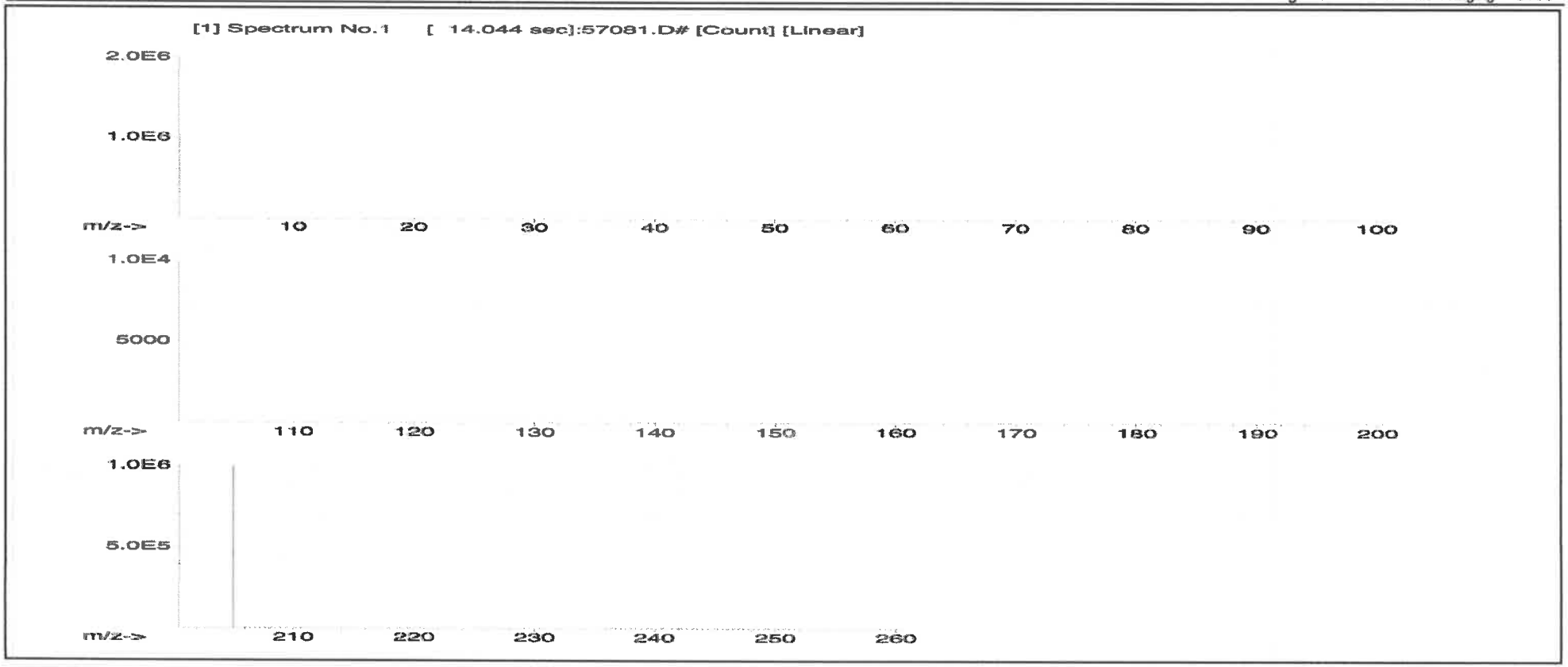
CERTIFIED WEIGHT REPORT:

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



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Q1984-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).

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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	

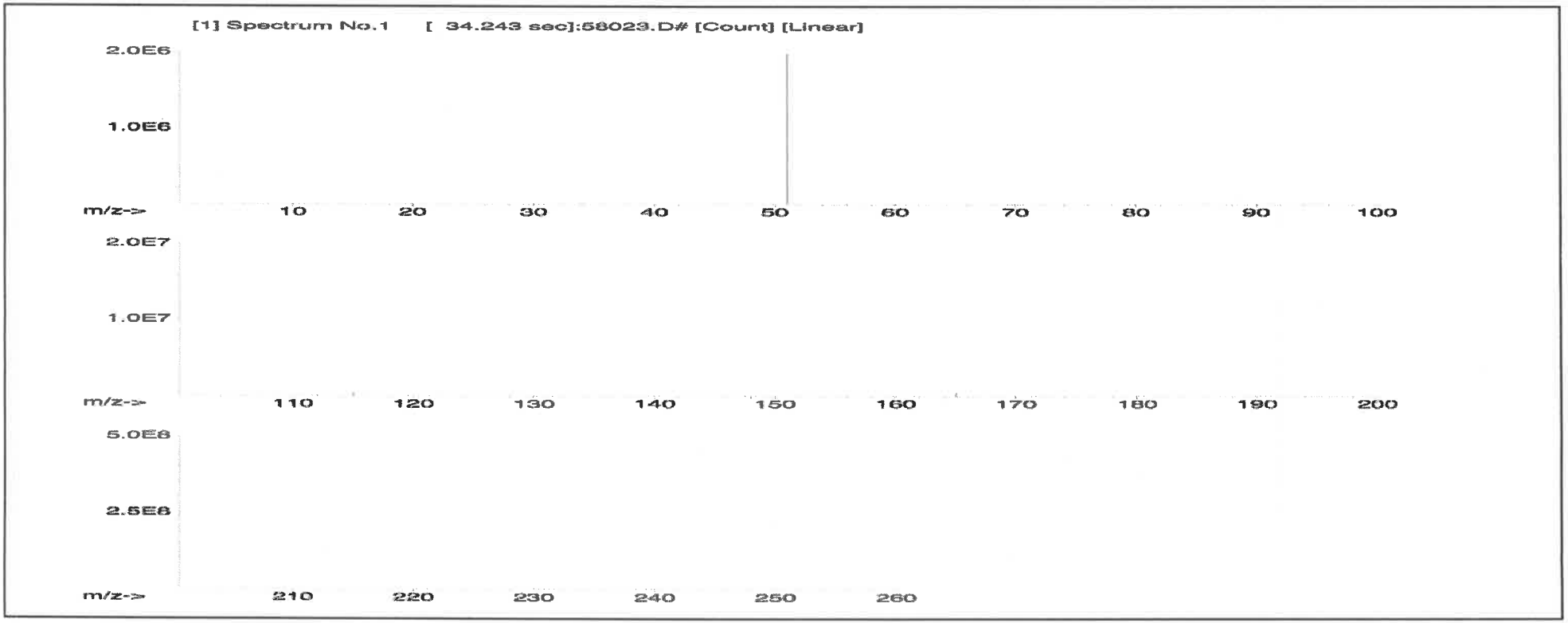
Aleah O'Brady

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



Absolute Standards, Inc.
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	<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

Q1984

Chemtech

Phone: (908) 789-8900
Fax: (908) 789-8922
284 Sheffield Street, Mountainside, NJ 07092

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	C. Odell

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Deliverables
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-PCS-TC-33-050725	5/7/25	0950	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-34-050725	5/7/25	1000	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-35-050725	5/7/25	1015	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-24-050725	5/7/25	1130	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-25-050725	5/7/25	1135	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-26-050725	5/7/25	1140	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-27-050725	5/7/25	1145	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-28-050725	5/7/25	1150	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TB01-050725 ↓		0800	—	—		3						X								

[2] Preservation Code

Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 5/7/25 1430	Client Comments:
Received by: (signature)	Date/Time: 5-8-25 0930	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
1.9°C
Adjust Factor +1
IR Gun #1

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1984-01	OU4-PCS-TC-33-050725	Solid	05/07/2025	09:50					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-03	OU4-PCS-TC-34-050725	Solid	05/07/2025	10:00					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-05	OU4-PCS-TC-35-050725	Solid	05/07/2025	10:15					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-07	OU4-TS-24-050725	Solid	05/07/2025	11:30					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-09	OU4-TS-25-050725	Solid	05/07/2025	11:35					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-11	OU4-TS-26-050725	Solid	05/07/2025	11:40					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-13	OU4-TS-27-050725	Solid	05/07/2025	11:45					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-15	OU4-TS-28-050725	Solid	05/07/2025	11:50					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group3		8260D	10 Bus. Days		
Q1984-19	OU4-TB01-050725	Water	05/07/2025	08:00						
					VOCMS Group3		~~8260 Low~~ 8260D	10 Bus. Days		

Relinquished By :
Date / Time : 5/8/25 1150

Received By : JC
Date / Time : 5/8/25 1150
Storage Area : VOA Refridgerator Room