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 : Q1730

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1730

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q1730-01	OU4-VSL-15-040325
Q1730-02	OU4-VSL-15-040325
Q1730-03	OU4-VSL-16-040325
Q1730-04	OU4-VSL-16-040325
Q1730-05	OU4-VSL-17-040325
Q1730-06	OU4-VSL-17-040325
Q1730-07	OU4-PCS-TC-21-040325
Q1730-08	OU4-PCS-TC-21-040325
Q1730-09	OU4-PCS-TC-22-040325
Q1730-10	OU4-PCS-TC-22-040325
Q1730-11	OU4-PCS-TC-23-040325
Q1730-12	OU4-PCS-TC-23-040325
Q1730-13	OU4-PCS-TC-24-040325
Q1730-14	OU4-PCS-TC-24-040325
Q1730-15	OU4-PCS-TC-25-040325
Q1730-16	OU4-PCS-TC-25-040325
Q1730-17	OU4-PCS-TC-26-040325
Q1730-18	OU4-PCS-TC-26-040325
Q1730-19	OU4-CF-15-040325
Q1730-20	OU4-CF-15-040325

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 : _____ Date: 4/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Chemtech Project # Q1730
Test Name: SPLP MetalGroup3,SPLP Mercury

A. Number of Samples and Date of Receipt:
20 Solid samples were received on 04/04/2025.

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 and VOCMS Group3. This data package contains results for SPLP MetalGroup3,SPLP Mercury.

C. Analytical Techniques:
The analysis of SPLP MetalGroup3 was based on method 6020B, digestion based on method 3050 (soils). The analysis of SPLP Mercury was based on method 7470A and digestion was based on method 7471B (soils).

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-CF-15-040325MS) analysis met criteria for all samples except for Arsenic, Silver due to matrix interference.
The Matrix Spike Duplicate(OU4-CF-15-040325MSD) analysis met criteria for all samples except for Arsenic, Silver due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
All samples are diluted 5X dilution as straight analysis because of high and pure acid concentration of two acids which can cause drastic damage to the instrument.

Internal standard 89(1&2) were out of QC limits for samples Q1730-02, Q1730-04, Q1730-08, Q1730-12 and Q1730-16 in 5X run, so for these samples affected parameters were reported from 10X dilutions.

Internal standard 89(1&2) were out of QC limits for sample Q1730-06 in 5X and 10X run so for this sample affected parameters were reported from 25X dilutions.

Internal standard 89(1) was out of QC limits for samples Q1730-10, Q1730-18, Q1730-20 and its QC set in 5X run, so for these samples affected parameters were reported from 10X dilutions.

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_____

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

CHEMTECH PROJECT NUMBER: Q1730 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 The Matrix Spike (OU4-CF-15-040325MS) analysis met criteria for all samples except for Arsenic, Silver due to matrix interference. The Matrix Spike Duplicate(OU4-CF-15-040325MSD) analysis met criteria for all samples except for Arsenic, Silver due to matrix interference.			✓
7.	Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
8.	Digestion Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

ADDITIONAL COMMENTS: All samples are diluted 5X dilution as straight analysis because of high and pure acid concentration of two acids which can cause drastic damage to the instrument.

Internal standard 89(1&2) were out of QC limits for samples Q1730-02, Q1730-04, Q1730-08, Q1730-12 and Q1730-16 in 5X run, so for these samples affected parameters were reported from 10X dilutions.

Internal standard 89(1&2) were out of QC limits for sample Q1730-06 in 5X and 10X run so for this sample affected parameters were reported from 25X dilutions.

Internal standard 89(1) was out of QC limits for samples Q1730-10, Q1730-18, Q1730-20 and its QC set in 5X run, so for these samples affected parameters were reported from 10X dilutions.

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 Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1730

	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:** 04/16/2025

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LAB CHRONICLE

OrderID:	Q1730	**OrderDate:**	4/4/2025 10:51:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1730-01	**OU4-VSL-15-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-02	**OU4-VSL-15-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
Q1730-03	**OU4-VSL-16-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-04	**OU4-VSL-16-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
Q1730-05	**OU4-VSL-17-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-06	**OU4-VSL-17-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/14/25	
Q1730-07	**OU4-PCS-TC-21-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-08	**OU4-PCS-TC-21-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	

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LAB CHRONICLE

			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/14/25	
Q1730-09	**OU4-PCS-TC-22-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-10	**OU4-PCS-TC-22-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/14/25	
Q1730-11	**OU4-PCS-TC-23-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-12	**OU4-PCS-TC-23-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
Q1730-13	**OU4-PCS-TC-24-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-14	**OU4-PCS-TC-24-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	
Q1730-15	**OU4-PCS-TC-25-040325**	**SOIL**			**04/03/25**			**04/04/25**
			Mercury	7471B		04/08/25	04/08/25	
			Metals ICP-TAL	6010D		04/07/25	04/14/25	
Q1730-16	**OU4-PCS-TC-25-040325**	**Water**			**04/03/25**			**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25	
			SPLP MetalGroup3	6020B		04/08/25	04/10/25	

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LAB CHRONICLE

Q1730-17	**OU4-PCS-TC-26-040325**	**SOIL**			**04/03/25**		**04/04/25**
			Mercury	7471B		04/08/25	04/08/25
			Metals ICP-TAL	6010D		04/07/25	04/14/25
Q1730-18	**OU4-PCS-TC-26-040325**	**Water**			**04/03/25**		**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25
			SPLP MetalGroup3	6020B		04/08/25	04/10/25
			SPLP MetalGroup3	6020B		04/08/25	04/14/25
Q1730-19	**OU4-CF-15-040325**	**SOIL**			**04/03/25**		**04/04/25**
			Mercury	7471B		04/08/25	04/08/25
			Metals ICP-TAL	6010D		04/07/25	04/14/25
Q1730-20	**OU4-CF-15-040325**	**Water**			**04/03/25**		**04/04/25**
			SPLP Mercury	7470A		04/10/25	04/10/25
			SPLP MetalGroup3	6020B		04/08/25	04/10/25
			SPLP MetalGroup3	6020B		04/08/25	04/14/25

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Hit Summary Sheet
SW-846

SDG No.: Q1730 **Order ID:** Q1730

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : OU4-VSL-15-040325									
Q1730-02	OU4-VSL-15-040325	Water	Arsenic	5.30	JD	0.89	2.50	10.0	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Barium	128	D	1.05	6.25	50.0	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Chromium	28.6	D	1.05	3.75	10.0	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Copper	92.1	D	1.50	7.50	10.0	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Lead	1.65	JD	1.05	3.75	5.00	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Nickel	132	D	1.35	3.75	5.00	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Mercury	0.61		0.076	0.16	0.20	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Vanadium	528	D	0.39	1.25	25.0	ug/L
Q1730-02	OU4-VSL-15-040325	Water	Zinc	757	D	6.25	7.50	25.0	ug/L
Client ID : OU4-VSL-16-040325									
Q1730-04	OU4-VSL-16-040325	Water	Arsenic	4.90	JD	0.89	2.50	10.0	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Barium	130	D	1.05	6.25	50.0	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Chromium	12.9	D	1.05	3.75	10.0	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Copper	111	D	1.50	7.50	10.0	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Lead	1.45	JD	1.05	3.75	5.00	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Nickel	117	D	1.35	3.75	5.00	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Vanadium	356	D	0.39	1.25	25.0	ug/L
Q1730-04	OU4-VSL-16-040325	Water	Zinc	739	D	6.25	7.50	25.0	ug/L
Client ID : OU4-VSL-17-040325									
Q1730-06	OU4-VSL-17-040325	Water	Arsenic	4.00	JD	2.23	6.25	25.0	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Barium	119	D	1.05	6.25	50.0	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Chromium	8.90	JD	1.05	3.75	10.0	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Copper	124	D	1.50	7.50	10.0	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Nickel	96.4	D	1.35	3.75	5.00	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Mercury	0.20		0.076	0.16	0.20	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Vanadium	246	D	0.39	1.25	25.0	ug/L
Q1730-06	OU4-VSL-17-040325	Water	Zinc	889	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-21-040325									
Q1730-08	OU4-PCS-TC-21-040325	Water	Arsenic	4.40	JD	0.89	2.50	10.0	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Barium	129	D	1.05	6.25	50.0	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Chromium	1.80	JD	1.05	3.75	10.0	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Copper	88.0	D	1.50	7.50	10.0	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Nickel	56.7	D	1.35	3.75	5.00	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Vanadium	54.6	D	0.39	1.25	25.0	ug/L
Q1730-08	OU4-PCS-TC-21-040325	Water	Zinc	835	D	6.25	7.50	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1730 **Order ID:** Q1730

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-22-040325									
Q1730-10	OU4-PCS-TC-22-040325	Water	Arsenic	2.70	JD	0.45	1.25	5.00	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Barium	122	D	1.05	6.25	50.0	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Chromium	2.40	JD	1.05	3.75	10.0	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Copper	98.2	D	1.50	7.50	10.0	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Nickel	59.4	D	1.35	3.75	5.00	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Vanadium	85.4	D	0.39	1.25	25.0	ug/L
Q1730-10	OU4-PCS-TC-22-040325	Water	Zinc	760	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-23-040325									
Q1730-12	OU4-PCS-TC-23-040325	Water	Arsenic	8.10	JD	0.89	2.50	10.0	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Barium	110	D	1.05	6.25	50.0	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Chromium	36.2	D	1.05	3.75	10.0	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Copper	103	D	1.50	7.50	10.0	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Nickel	107	D	1.35	3.75	5.00	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Vanadium	94.2	D	0.39	1.25	25.0	ug/L
Q1730-12	OU4-PCS-TC-23-040325	Water	Zinc	867	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-24-040325									
Q1730-14	OU4-PCS-TC-24-040325	Water	Barium	123	D	1.05	6.25	50.0	ug/L
Q1730-14	OU4-PCS-TC-24-040325	Water	Copper	2.00	JD	1.50	7.50	10.0	ug/L
Q1730-14	OU4-PCS-TC-24-040325	Water	Nickel	50.5	D	1.35	3.75	5.00	ug/L
Q1730-14	OU4-PCS-TC-24-040325	Water	Zinc	957	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-25-040325									
Q1730-16	OU4-PCS-TC-25-040325	Water	Arsenic	12.5	D	0.89	2.50	10.0	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Barium	118	D	1.05	6.25	50.0	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Chromium	2.65	JD	1.05	3.75	10.0	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Copper	88.5	D	1.50	7.50	10.0	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Nickel	71.7	D	1.35	3.75	5.00	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Vanadium	109	D	0.39	1.25	25.0	ug/L
Q1730-16	OU4-PCS-TC-25-040325	Water	Zinc	817	D	6.25	7.50	25.0	ug/L
Client ID : OU4-PCS-TC-26-040325									
Q1730-18	OU4-PCS-TC-26-040325	Water	Arsenic	2.35	JD	0.45	1.25	5.00	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Barium	115	D	1.05	6.25	50.0	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Chromium	2.90	JD	1.05	3.75	10.0	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Copper	58.4	D	1.50	7.50	10.0	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Nickel	89.5	D	1.35	3.75	5.00	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Vanadium	167	D	0.39	1.25	25.0	ug/L
Q1730-18	OU4-PCS-TC-26-040325	Water	Zinc	715	D	6.25	7.50	25.0	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: Q1730 **Order ID:** Q1730

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : OU4-CF-15-040325									
Q1730-20	OU4-CF-15-040325	Water	Arsenic	1.85	JD	0.45	1.25	5.00	ug/L
Q1730-20	OU4-CF-15-040325	Water	Barium	118	D	1.05	6.25	50.0	ug/L
Q1730-20	OU4-CF-15-040325	Water	Copper	49.0	D	1.50	7.50	10.0	ug/L
Q1730-20	OU4-CF-15-040325	Water	Nickel	73.3	D	1.35	3.75	5.00	ug/L
Q1730-20	OU4-CF-15-040325	Water	Vanadium	15.0	JD	0.39	1.25	25.0	ug/L
Q1730-20	OU4-CF-15-040325	Water	Zinc	811	D	6.25	7.50	25.0	ug/L

SAMPLE DATA

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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-VSL-15-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-02	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	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-38-2	Arsenic	5.30	JDN	10	0.89	2.50	10.0	ug/L	04/08/25 12:30	04/10/25 17:02	SW6020	3010A
7440-39-3	Barium	128	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-47-3	Chromium	28.6	D	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-50-8	Copper	92.1	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7439-92-1	Lead	1.65	JD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7439-97-6	Mercury	0.61		1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:28	SW7470A	
7440-02-0	Nickel	132	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/10/25 17:02	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-62-2	Vanadium	528	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	3010A
7440-66-6	Zinc	757	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 15:55	SW6020	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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-VSL-16-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-04	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	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-38-2	Arsenic	4.90	JDN	10	0.89	2.50	10.0	ug/L	04/08/25 12:30	04/10/25 17:05	SW6020	3010A
7440-39-3	Barium	130	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-47-3	Chromium	12.9	D	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-50-8	Copper	111	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7439-92-1	Lead	1.45	JD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:31	SW7470A	
7440-02-0	Nickel	117	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/10/25 17:05	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-62-2	Vanadium	356	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	3010A
7440-66-6	Zinc	739	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 15:59	SW6020	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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-VSL-17-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-06	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	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-38-2	Arsenic	4.00	JDN	25	2.23	6.25	25.0	ug/L	04/08/25 12:30	04/14/25 16:51	SW6020	3010A
7440-39-3	Barium	119	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-47-3	Chromium	8.90	JD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-50-8	Copper	124	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7439-97-6	Mercury	0.20		1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:40	SW7470A	
7440-02-0	Nickel	96.4	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7782-49-2	Selenium	113	UD	25	72.5	113	125	ug/L	04/08/25 12:30	04/14/25 16:51	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-62-2	Vanadium	246	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A
7440-66-6	Zinc	889	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:02	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
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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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-21-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-08	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	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-38-2	Arsenic	4.40	JDN	10	0.89	2.50	10.0	ug/L	04/08/25 12:30	04/14/25 16:55	SW6020	3010A
7440-39-3	Barium	129	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-47-3	Chromium	1.80	JD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-50-8	Copper	88.0	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:42	SW7470A	
7440-02-0	Nickel	56.7	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/14/25 16:55	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-62-2	Vanadium	54.6	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A
7440-66-6	Zinc	835	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:05	SW6020	3010A

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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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-22-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-10	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	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-38-2	Arsenic	2.70	JDN	5	0.45	1.25	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-39-3	Barium	122	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-47-3	Chromium	2.40	JD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-50-8	Copper	98.2	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:45	SW7470A	
7440-02-0	Nickel	59.4	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/14/25 16:58	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-62-2	Vanadium	85.4	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	3010A
7440-66-6	Zinc	760	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:19	SW6020	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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-23-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-12	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	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-38-2	Arsenic	8.10	JDN	10	0.89	2.50	10.0	ug/L	04/08/25 12:30	04/10/25 17:11	SW6020	3010A
7440-39-3	Barium	110	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-47-3	Chromium	36.2	D	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-50-8	Copper	103	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:47	SW7470A	
7440-02-0	Nickel	107	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/10/25 17:11	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-62-2	Vanadium	94.2	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	3010A
7440-66-6	Zinc	867	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:23	SW6020	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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-24-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-14	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	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-38-2	Arsenic	1.25	UDN	5	0.45	1.25	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-39-3	Barium	123	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-47-3	Chromium	3.75	UD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-50-8	Copper	2.00	JD	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:49	SW7470A	
7440-02-0	Nickel	50.5	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7782-49-2	Selenium	22.5	UD	5	14.5	22.5	25.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-62-2	Vanadium	1.25	UD	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A
7440-66-6	Zinc	957	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:26	SW6020	3010A

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

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LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-25-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-16	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	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-38-2	Arsenic	12.5	DN	10	0.89	2.50	10.0	ug/L	04/08/25 12:30	04/10/25 17:15	SW6020	3010A
7440-39-3	Barium	118	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-47-3	Chromium	2.65	JD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-50-8	Copper	88.5	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:51	SW7470A	
7440-02-0	Nickel	71.7	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/10/25 17:15	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-62-2	Vanadium	109	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A
7440-66-6	Zinc	817	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:29	SW6020	3010A

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

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LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-PCS-TC-26-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-18	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	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-38-2	Arsenic	2.35	JDN	5	0.45	1.25	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-39-3	Barium	115	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-47-3	Chromium	2.90	JD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-50-8	Copper	58.4	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:54	SW7470A	
7440-02-0	Nickel	89.5	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/14/25 17:01	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-62-2	Vanadium	167	D	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A
7440-66-6	Zinc	715	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:32	SW6020	3010A

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

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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:	04/03/25
Project:	Raymark Superfund Site	Date Received:	04/04/25
Client Sample ID:	OU4-CF-15-040325	SDG No.:	Q1730
Lab Sample ID:	Q1730-20	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	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-38-2	Arsenic	1.85	JDN	5	0.45	1.25	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-39-3	Barium	118	D	5	1.05	6.25	50.0	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-41-7	Beryllium	3.75	UD	5	1.60	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-43-9	Cadmium	2.50	UD	5	1.70	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-47-3	Chromium	3.75	UD	5	1.05	3.75	10.0	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-50-8	Copper	49.0	D	5	1.50	7.50	10.0	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7439-92-1	Lead	3.75	UD	5	1.05	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7439-97-6	Mercury	0.16	U	1	0.076	0.16	0.20	ug/L	04/10/25 09:45	04/10/25 14:56	SW7470A	
7440-02-0	Nickel	73.3	D	5	1.35	3.75	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7782-49-2	Selenium	45.0	UD	10	29.0	45.0	50.0	ug/L	04/08/25 12:30	04/14/25 17:04	SW6020	3010A
7440-22-4	Silver	2.50	UDN	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-28-0	Thallium	2.50	UD	5	0.30	2.50	5.00	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-62-2	Vanadium	15.0	JD	5	0.39	1.25	25.0	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A
7440-66-6	Zinc	811	D	5	6.25	7.50	25.0	ug/L	04/08/25 12:30	04/10/25 16:36	SW6020	3010A

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

U = Not Detected
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METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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
ICV83	Mercury	4.06	4.0	102	90 - 110	CV	04/10/2025	13:01	LB135365

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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
CCV53	Mercury	4.98	5.0	100	90 - 110	CV	04/10/2025	13:06	LB135365
CCV54	Mercury	4.95	5.0	99	90 - 110	CV	04/10/2025	13:38	LB135365
CCV55	Mercury	4.88	5.0	98	90 - 110	CV	04/10/2025	14:06	LB135365
CCV56	Mercury	4.94	5.0	99	90 - 110	CV	04/10/2025	14:36	LB135365
CCV57	Mercury	4.81	5.0	96	90 - 110	CV	04/10/2025	15:06	LB135365
CCV58	Mercury	5.01	5.0	100	90 - 110	CV	04/10/2025	15:26	LB135365

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	194	200	97	90 - 110	P	04/10/2025	13:58	LB135405
	Arsenic	195	200	97	90 - 110	P	04/10/2025	13:58	LB135405
	Barium	98.6	100	99	90 - 110	P	04/10/2025	13:58	LB135405
	Beryllium	100	100	100	90 - 110	P	04/10/2025	13:58	LB135405
	Cadmium	100	100	100	90 - 110	P	04/10/2025	13:58	LB135405
	Chromium	102	100	102	90 - 110	P	04/10/2025	13:58	LB135405
	Copper	105	100	105	90 - 110	P	04/10/2025	13:58	LB135405
	Lead	192	200	96	90 - 110	P	04/10/2025	13:58	LB135405
	Nickel	102	110	93	90 - 110	P	04/10/2025	13:58	LB135405
	Selenium	203	200	101	90 - 110	P	04/10/2025	13:58	LB135405
	Silver	52.1	50.0	104	90 - 110	P	04/10/2025	13:58	LB135405
	Thallium	194	210	92	90 - 110	P	04/10/2025	13:58	LB135405
	Vanadium	99.6	100	100	90 - 110	P	04/10/2025	13:58	LB135405
	Zinc	197	200	99	90 - 110	P	04/10/2025	13:58	LB135405

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Antimony	2.15	2.0	108	80 - 120	P	04/10/2025	14:16	LB135405
	Arsenic	1.07	1.0	107	80 - 120	P	04/10/2025	14:16	LB135405
	Barium	10.8	10.0	108	80 - 120	P	04/10/2025	14:16	LB135405
	Beryllium	1.09	1.0	109	80 - 120	P	04/10/2025	14:16	LB135405
	Cadmium	1.18	1.0	118	80 - 120	P	04/10/2025	14:16	LB135405
	Chromium	2.18	2.0	109	80 - 120	P	04/10/2025	14:16	LB135405
	Copper	2.20	2.0	110	80 - 120	P	04/10/2025	14:16	LB135405
	Lead	0.94	1.0	94	80 - 120	P	04/10/2025	14:16	LB135405
	Nickel	0.89	1.0	89	80 - 120	P	04/10/2025	14:16	LB135405
	Selenium	5.23	5.0	105	80 - 120	P	04/10/2025	14:16	LB135405
	Silver	1.10	1.0	110	80 - 120	P	04/10/2025	14:16	LB135405
	Thallium	0.98	1.0	98	80 - 120	P	04/10/2025	14:16	LB135405
	Vanadium	5.56	5.0	111	80 - 120	P	04/10/2025	14:16	LB135405
	Zinc	5.20	5.0	104	80 - 120	P	04/10/2025	14:16	LB135405

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	508	500	102	90 - 110	P	04/10/2025	14:54	LB135405
	Arsenic	503	500	101	90 - 110	P	04/10/2025	14:54	LB135405
	Barium	2590	2500	104	90 - 110	P	04/10/2025	14:54	LB135405
	Beryllium	525	500	105	90 - 110	P	04/10/2025	14:54	LB135405
	Cadmium	502	500	100	90 - 110	P	04/10/2025	14:54	LB135405
	Chromium	521	500	104	90 - 110	P	04/10/2025	14:54	LB135405
	Copper	4830	5000	97	90 - 110	P	04/10/2025	14:54	LB135405
	Lead	2590	2500	104	90 - 110	P	04/10/2025	14:54	LB135405
	Nickel	492	500	98	90 - 110	P	04/10/2025	14:54	LB135405
	Selenium	484	500	97	90 - 110	P	04/10/2025	14:54	LB135405
	Silver	495	500	99	90 - 110	P	04/10/2025	14:54	LB135405
	Thallium	512	500	102	90 - 110	P	04/10/2025	14:54	LB135405
	Vanadium	527	500	105	90 - 110	P	04/10/2025	14:54	LB135405
	Zinc	4900	5000	98	90 - 110	P	04/10/2025	14:54	LB135405
CCV02	Antimony	503	500	101	90 - 110	P	04/10/2025	16:11	LB135405
	Arsenic	502	500	100	90 - 110	P	04/10/2025	16:11	LB135405
	Barium	2560	2500	102	90 - 110	P	04/10/2025	16:11	LB135405
	Beryllium	527	500	106	90 - 110	P	04/10/2025	16:11	LB135405
	Cadmium	492	500	98	90 - 110	P	04/10/2025	16:11	LB135405
	Chromium	516	500	103	90 - 110	P	04/10/2025	16:11	LB135405
	Copper	4940	5000	99	90 - 110	P	04/10/2025	16:11	LB135405
	Lead	2560	2500	102	90 - 110	P	04/10/2025	16:11	LB135405
	Nickel	495	500	99	90 - 110	P	04/10/2025	16:11	LB135405
	Selenium	480	500	96	90 - 110	P	04/10/2025	16:11	LB135405
	Silver	492	500	98	90 - 110	P	04/10/2025	16:11	LB135405
	Thallium	504	500	101	90 - 110	P	04/10/2025	16:11	LB135405
	Vanadium	518	500	104	90 - 110	P	04/10/2025	16:11	LB135405
	Zinc	4990	5000	100	90 - 110	P	04/10/2025	16:11	LB135405
CCV03	Antimony	507	500	101	90 - 110	P	04/10/2025	16:46	LB135405
	Arsenic	501	500	100	90 - 110	P	04/10/2025	16:46	LB135405
	Barium	2560	2500	103	90 - 110	P	04/10/2025	16:46	LB135405
	Beryllium	518	500	104	90 - 110	P	04/10/2025	16:46	LB135405
	Cadmium	501	500	100	90 - 110	P	04/10/2025	16:46	LB135405
	Chromium	536	500	107	90 - 110	P	04/10/2025	16:46	LB135405

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	5140	5000	103	90 - 110	P	04/10/2025	16:46	LB135405
	Lead	2600	2500	104	90 - 110	P	04/10/2025	16:46	LB135405
	Nickel	507	500	101	90 - 110	P	04/10/2025	16:46	LB135405
	Selenium	481	500	96	90 - 110	P	04/10/2025	16:46	LB135405
	Silver	493	500	98	90 - 110	P	04/10/2025	16:46	LB135405
	Thallium	515	500	103	90 - 110	P	04/10/2025	16:46	LB135405
	Vanadium	531	500	106	90 - 110	P	04/10/2025	16:46	LB135405
	Zinc	5170	5000	103	90 - 110	P	04/10/2025	16:46	LB135405
CCV04	Antimony	506	500	101	90 - 110	P	04/10/2025	17:19	LB135405
	Arsenic	499	500	100	90 - 110	P	04/10/2025	17:19	LB135405
	Barium	2550	2500	102	90 - 110	P	04/10/2025	17:19	LB135405
	Beryllium	518	500	104	90 - 110	P	04/10/2025	17:19	LB135405
	Cadmium	496	500	99	90 - 110	P	04/10/2025	17:19	LB135405
	Chromium	526	500	105	90 - 110	P	04/10/2025	17:19	LB135405
	Copper	4960	5000	99	90 - 110	P	04/10/2025	17:19	LB135405
	Lead	2540	2500	102	90 - 110	P	04/10/2025	17:19	LB135405
	Nickel	501	500	100	90 - 110	P	04/10/2025	17:19	LB135405
	Selenium	476	500	95	90 - 110	P	04/10/2025	17:19	LB135405
	Silver	491	500	98	90 - 110	P	04/10/2025	17:19	LB135405
	Thallium	501	500	100	90 - 110	P	04/10/2025	17:19	LB135405
	Vanadium	531	500	106	90 - 110	P	04/10/2025	17:19	LB135405
	Zinc	5010	5000	100	90 - 110	P	04/10/2025	17:19	LB135405

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	99	90 - 110	P	04/14/2025	15:56	LB135426
	Arsenic	195	200	97	90 - 110	P	04/14/2025	15:56	LB135426
	Barium	97.0	100	97	90 - 110	P	04/14/2025	15:56	LB135426
	Beryllium	108	100	108	90 - 110	P	04/14/2025	15:56	LB135426
	Cadmium	99.9	100	100	90 - 110	P	04/14/2025	15:56	LB135426
	Chromium	101	100	101	90 - 110	P	04/14/2025	15:56	LB135426
	Copper	106	100	106	90 - 110	P	04/14/2025	15:56	LB135426
	Lead	191	200	96	90 - 110	P	04/14/2025	15:56	LB135426
	Nickel	104	110	94	90 - 110	P	04/14/2025	15:56	LB135426
	Selenium	208	200	104	90 - 110	P	04/14/2025	15:56	LB135426
	Silver	52.2	50.0	104	90 - 110	P	04/14/2025	15:56	LB135426
	Thallium	190	210	90	90 - 110	P	04/14/2025	15:56	LB135426
	Vanadium	99.7	100	100	90 - 110	P	04/14/2025	15:56	LB135426
	Zinc	200	200	100	90 - 110	P	04/14/2025	15:56	LB135426

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Antimony	2.06	2.0	103	80 - 120	P	04/14/2025	16:09	LB135426
	Arsenic	1.03	1.0	103	80 - 120	P	04/14/2025	16:09	LB135426
	Barium	10.2	10.0	102	80 - 120	P	04/14/2025	16:09	LB135426
	Beryllium	1.18	1.0	118	80 - 120	P	04/14/2025	16:09	LB135426
	Cadmium	1.06	1.0	106	80 - 120	P	04/14/2025	16:09	LB135426
	Chromium	2.13	2.0	106	80 - 120	P	04/14/2025	16:09	LB135426
	Copper	2.18	2.0	109	80 - 120	P	04/14/2025	16:09	LB135426
	Lead	0.99	1.0	99	80 - 120	P	04/14/2025	16:09	LB135426
	Nickel	1.06	1.0	106	80 - 120	P	04/14/2025	16:09	LB135426
	Selenium	5.39	5.0	108	80 - 120	P	04/14/2025	16:09	LB135426
	Silver	1.05	1.0	105	80 - 120	P	04/14/2025	16:09	LB135426
	Thallium	0.97	1.0	97	80 - 120	P	04/14/2025	16:09	LB135426
	Vanadium	5.28	5.0	106	80 - 120	P	04/14/2025	16:09	LB135426
	Zinc	5.38	5.0	108	80 - 120	P	04/14/2025	16:09	LB135426

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	507	500	101	90 - 110	P	04/14/2025	16:41	LB135426
	Arsenic	494	500	99	90 - 110	P	04/14/2025	16:41	LB135426
	Barium	2490	2500	99	90 - 110	P	04/14/2025	16:41	LB135426
	Beryllium	524	500	105	90 - 110	P	04/14/2025	16:41	LB135426
	Cadmium	495	500	99	90 - 110	P	04/14/2025	16:41	LB135426
	Chromium	493	500	98	90 - 110	P	04/14/2025	16:41	LB135426
	Copper	4560	5000	91	90 - 110	P	04/14/2025	16:41	LB135426
	Lead	2530	2500	101	90 - 110	P	04/14/2025	16:41	LB135426
	Nickel	454	500	91	90 - 110	P	04/14/2025	16:41	LB135426
	Selenium	486	500	97	90 - 110	P	04/14/2025	16:41	LB135426
	Silver	486	500	97	90 - 110	P	04/14/2025	16:41	LB135426
	Thallium	502	500	100	90 - 110	P	04/14/2025	16:41	LB135426
	Vanadium	515	500	103	90 - 110	P	04/14/2025	16:41	LB135426
	Zinc	4580	5000	92	90 - 110	P	04/14/2025	16:41	LB135426
CCV02	Antimony	525	500	105	90 - 110	P	04/14/2025	17:16	LB135426
	Arsenic	513	500	103	90 - 110	P	04/14/2025	17:16	LB135426
	Barium	2610	2500	104	90 - 110	P	04/14/2025	17:16	LB135426
	Beryllium	544	500	109	90 - 110	P	04/14/2025	17:16	LB135426
	Cadmium	520	500	104	90 - 110	P	04/14/2025	17:16	LB135426
	Chromium	510	500	102	90 - 110	P	04/14/2025	17:16	LB135426
	Copper	4640	5000	93	90 - 110	P	04/14/2025	17:16	LB135426
	Lead	2550	2500	102	90 - 110	P	04/14/2025	17:16	LB135426
	Nickel	479	500	96	90 - 110	P	04/14/2025	17:16	LB135426
	Selenium	485	500	97	90 - 110	P	04/14/2025	17:16	LB135426
	Silver	505	500	101	90 - 110	P	04/14/2025	17:16	LB135426
	Thallium	511	500	102	90 - 110	P	04/14/2025	17:16	LB135426
	Vanadium	516	500	103	90 - 110	P	04/14/2025	17:16	LB135426
	Zinc	4640	5000	93	90 - 110	P	04/14/2025	17:16	LB135426
CCV03	Antimony	510	500	102	90 - 110	P	04/14/2025	17:35	LB135426
	Arsenic	500	500	100	90 - 110	P	04/14/2025	17:35	LB135426
	Barium	2560	2500	102	90 - 110	P	04/14/2025	17:35	LB135426
	Beryllium	536	500	107	90 - 110	P	04/14/2025	17:35	LB135426
	Cadmium	503	500	101	90 - 110	P	04/14/2025	17:35	LB135426
	Chromium	503	500	101	90 - 110	P	04/14/2025	17:35	LB135426

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	4570	5000	91	90 - 110	P	04/14/2025	17:35	LB135426
	Lead	2490	2500	100	90 - 110	P	04/14/2025	17:35	LB135426
	Nickel	473	500	95	90 - 110	P	04/14/2025	17:35	LB135426
	Selenium	475	500	95	90 - 110	P	04/14/2025	17:35	LB135426
	Silver	499	500	100	90 - 110	P	04/14/2025	17:35	LB135426
	Thallium	497	500	100	90 - 110	P	04/14/2025	17:35	LB135426
	Vanadium	513	500	103	90 - 110	P	04/14/2025	17:35	LB135426
	Zinc	4550	5000	91	90 - 110	P	04/14/2025	17:35	LB135426

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	0.19	0.2	96	40 - 160	CV	04/10/2025	13:10	LB135365
CRI	Antimony	2.10	2.0	105	70 - 130	P	04/10/2025	15:02	LB135405
	Arsenic	1.01	1.0	101	70 - 130	P	04/10/2025	15:02	LB135405
	Barium	10.6	10.0	106	70 - 130	P	04/10/2025	15:02	LB135405
	Beryllium	1.01	1.0	101	70 - 130	P	04/10/2025	15:02	LB135405
	Cadmium	1.09	1.0	109	70 - 130	P	04/10/2025	15:02	LB135405
	Chromium	2.18	2.0	109	70 - 130	P	04/10/2025	15:02	LB135405
	Copper	2.21	2.0	110	70 - 130	P	04/10/2025	15:02	LB135405
	Lead	0.96	1.0	96	70 - 130	P	04/10/2025	15:02	LB135405
	Nickel	0.86	1.0	86	70 - 130	P	04/10/2025	15:02	LB135405
	Selenium	5.19	5.0	104	70 - 130	P	04/10/2025	15:02	LB135405
	Silver	1.06	1.0	106	70 - 130	P	04/10/2025	15:02	LB135405
	Thallium	1.00	1.0	100	70 - 130	P	04/10/2025	15:02	LB135405
	Vanadium	5.56	5.0	111	70 - 130	P	04/10/2025	15:02	LB135405
	Zinc	5.28	5.0	106	50 - 150	P	04/10/2025	15:02	LB135405
CRI	Antimony	2.12	2.0	106	70 - 130	P	04/14/2025	16:47	LB135426
	Arsenic	1.10	1.0	110	70 - 130	P	04/14/2025	16:47	LB135426
	Barium	10.5	10.0	105	70 - 130	P	04/14/2025	16:47	LB135426
	Beryllium	1.21	1.0	121	70 - 130	P	04/14/2025	16:47	LB135426
	Cadmium	1.15	1.0	115	70 - 130	P	04/14/2025	16:47	LB135426
	Chromium	2.13	2.0	106	70 - 130	P	04/14/2025	16:47	LB135426
	Copper	2.22	2.0	111	70 - 130	P	04/14/2025	16:47	LB135426
	Lead	1.04	1.0	104	70 - 130	P	04/14/2025	16:47	LB135426
	Nickel	1.08	1.0	108	70 - 130	P	04/14/2025	16:47	LB135426
	Selenium	5.42	5.0	108	70 - 130	P	04/14/2025	16:47	LB135426
	Silver	1.08	1.0	108	70 - 130	P	04/14/2025	16:47	LB135426
	Thallium	1.01	1.0	101	70 - 130	P	04/14/2025	16:47	LB135426
	Vanadium	5.43	5.0	109	70 - 130	P	04/14/2025	16:47	LB135426
	Zinc	5.54	5.0	111	50 - 150	P	04/14/2025	16:47	LB135426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	13:03	LB135365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB53	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	13:08	LB135365
CCB54	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	13:41	LB135365
CCB55	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	14:08	LB135365
CCB56	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	14:38	LB135365
CCB57	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	15:08	LB135365
CCB58	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	04/10/2025	15:28	LB135365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/10/2025	14:20	LB135405
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/10/2025	14:20	LB135405
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/10/2025	14:20	LB135405
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:20	LB135405
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:20	LB135405
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/10/2025	14:20	LB135405
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/10/2025	14:20	LB135405
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:20	LB135405
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:20	LB135405
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/10/2025	14:20	LB135405
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:20	LB135405
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:20	LB135405
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/10/2025	14:20	LB135405
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/10/2025	14:20	LB135405

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/10/2025	14:58	LB135405
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/10/2025	14:58	LB135405
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/10/2025	14:58	LB135405
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:58	LB135405
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:58	LB135405
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/10/2025	14:58	LB135405
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/10/2025	14:58	LB135405
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:58	LB135405
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	14:58	LB135405
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/10/2025	14:58	LB135405
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:58	LB135405
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	14:58	LB135405
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/10/2025	14:58	LB135405
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/10/2025	14:58	LB135405
CCB02	Antimony	2.00	+/-2.00	U	0.25	2.00	P	04/10/2025	16:14	LB135405
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/10/2025	16:14	LB135405
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/10/2025	16:14	LB135405
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:14	LB135405
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	16:14	LB135405
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/10/2025	16:14	LB135405
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/10/2025	16:14	LB135405
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:14	LB135405
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:14	LB135405
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/10/2025	16:14	LB135405
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	16:14	LB135405
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	16:14	LB135405
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/10/2025	16:14	LB135405
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/10/2025	16:14	LB135405
CCB03	Antimony	2.00	+/-2.00	U	0.25	2.00	P	04/10/2025	16:49	LB135405
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/10/2025	16:49	LB135405
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/10/2025	16:49	LB135405
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:49	LB135405
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	16:49	LB135405
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/10/2025	16:49	LB135405
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/10/2025	16:49	LB135405
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:49	LB135405
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	16:49	LB135405
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/10/2025	16:49	LB135405
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	16:49	LB135405

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/10/2025	16:49	LB135405
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/10/2025	16:49	LB135405
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/10/2025	16:49	LB135405
CCB04	Antimony	2.00	+/-2.00	U	0.25	2.00	P	04/10/2025	17:23	LB135405
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/10/2025	17:23	LB135405
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/10/2025	17:23	LB135405
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	17:23	LB135405
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	17:23	LB135405
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/10/2025	17:23	LB135405
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/10/2025	17:23	LB135405
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	17:23	LB135405
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/10/2025	17:23	LB135405
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/10/2025	17:23	LB135405
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	17:23	LB135405
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/10/2025	17:23	LB135405
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/10/2025	17:23	LB135405
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/10/2025	17:23	LB135405

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/14/2025	16:12	LB135426
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/14/2025	16:12	LB135426
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/14/2025	16:12	LB135426
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:12	LB135426
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	16:12	LB135426
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/14/2025	16:12	LB135426
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/14/2025	16:12	LB135426
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:12	LB135426
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:12	LB135426
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/14/2025	16:12	LB135426
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	16:12	LB135426
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	16:12	LB135426
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/14/2025	16:12	LB135426
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/14/2025	16:12	LB135426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/14/2025	16:44	LB135426
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/14/2025	16:44	LB135426
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/14/2025	16:44	LB135426
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:44	LB135426
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	16:44	LB135426
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/14/2025	16:44	LB135426
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/14/2025	16:44	LB135426
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:44	LB135426
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	16:44	LB135426
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/14/2025	16:44	LB135426
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	16:44	LB135426
	Thallium	0.060	+/-1.00	J	0.50	1.00	P	04/14/2025	16:44	LB135426
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/14/2025	16:44	LB135426
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/14/2025	16:44	LB135426
CCB02	Antimony	2.00	+/-2.00	U	0.25	2.00	P	04/14/2025	17:20	LB135426
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/14/2025	17:20	LB135426
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/14/2025	17:20	LB135426
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:20	LB135426
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	17:20	LB135426
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/14/2025	17:20	LB135426
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/14/2025	17:20	LB135426
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:20	LB135426
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:20	LB135426
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/14/2025	17:20	LB135426
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	17:20	LB135426
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	17:20	LB135426
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/14/2025	17:20	LB135426
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/14/2025	17:20	LB135426
CCB03	Antimony	2.00	+/-2.00	U	0.25	2.00	P	04/14/2025	17:39	LB135426
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	04/14/2025	17:39	LB135426
	Barium	10.0	+/-10.0	U	1.25	10.0	P	04/14/2025	17:39	LB135426
	Beryllium	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:39	LB135426
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	17:39	LB135426
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	04/14/2025	17:39	LB135426
	Copper	2.00	+/-2.00	U	1.50	2.00	P	04/14/2025	17:39	LB135426
	Lead	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:39	LB135426
	Nickel	1.00	+/-1.00	U	0.75	1.00	P	04/14/2025	17:39	LB135426
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	04/14/2025	17:39	LB135426
	Silver	1.00	+/-1.00	U	0.50	1.00	P	04/14/2025	17:39	LB135426

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	04/14/2025	17:39	LB135426
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	04/14/2025	17:39	LB135426
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	04/14/2025	17:39	LB135426

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Metals
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PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167540BL		**WATER**		**Batch Number:**		**PB167540**		**Prep Date:**	**04/10/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	04/10/2025	14:24	LB135365

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167540TB		**WATER**		**Batch Number:**		**PB167540**		**Prep Date:**	**04/10/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	04/10/2025	15:15	LB135365

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Metals
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PREPARATION BLANK SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167502BL		**WATER**		**Batch Number:**		**PB167502**		**Prep Date:**	**04/08/2025**	
	Antimony	2.00	<2.00	U	0.25	2.00	P	04/10/2025	15:17	LB135405
	Arsenic	1.00	<1.00	U	0.25	1.00	P	04/10/2025	15:17	LB135405
	Barium	10.0	<10.0	U	1.25	10.0	P	04/10/2025	15:17	LB135405
	Beryllium	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:17	LB135405
	Cadmium	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:17	LB135405
	Chromium	2.00	<2.00	U	0.75	2.00	P	04/10/2025	15:17	LB135405
	Copper	2.00	<2.00	U	1.50	2.00	P	04/10/2025	15:17	LB135405
	Lead	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:17	LB135405
	Nickel	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:17	LB135405
	Selenium	5.00	<5.00	U	4.50	5.00	P	04/10/2025	15:17	LB135405
	Silver	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:17	LB135405
	Thallium	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:17	LB135405
	Vanadium	5.00	<5.00	U	0.25	5.00	P	04/10/2025	15:17	LB135405
	Zinc	5.00	<5.00	U	1.50	5.00	P	04/10/2025	15:17	LB135405

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167502TB		**WATER**		**Batch Number:**		**PB167502**		**Prep Date:**	**04/08/2025**	
	Antimony	2.00	<2.00	U	0.25	2.00	P	04/10/2025	15:33	LB135405
	Arsenic	1.00	<1.00	U	0.25	1.00	P	04/10/2025	15:33	LB135405
	Barium	10.0	<10.0	U	1.25	10.0	P	04/10/2025	15:33	LB135405
	Beryllium	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:33	LB135405
	Cadmium	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:33	LB135405
	Chromium	2.00	<2.00	U	0.75	2.00	P	04/10/2025	15:33	LB135405
	Copper	2.00	<2.00	U	1.50	2.00	P	04/10/2025	15:33	LB135405
	Lead	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:33	LB135405
	Nickel	1.00	<1.00	U	0.75	1.00	P	04/10/2025	15:33	LB135405
	Selenium	5.00	<5.00	U	4.50	5.00	P	04/10/2025	15:33	LB135405
	Silver	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:33	LB135405
	Thallium	1.00	<1.00	U	0.50	1.00	P	04/10/2025	15:33	LB135405
	Vanadium	5.00	<5.00	U	0.25	5.00	P	04/10/2025	15:33	LB135405
	Zinc	5.00	<5.00	U	1.50	5.00	P	04/10/2025	15:33	LB135405

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	1.20	1.5	80	-2.5	5.5	04/10/2025	14:30	LB135405
	Arsenic	0.30	0.1	300	-1.9	2.1	04/10/2025	14:30	LB135405
	Barium	1.46	1.2	122	-18.8	21.2	04/10/2025	14:30	LB135405
	Beryllium	0.41			-2	2	04/10/2025	14:30	LB135405
	Cadmium	0.48	0.7	69	-1.3	2.7	04/10/2025	14:30	LB135405
	Chromium	20.3	21.0	97	17	25	04/10/2025	14:30	LB135405
	Copper	7.77	8.0	97	4	12	04/10/2025	14:30	LB135405
	Lead	4.38	4.0	110	2	6	04/10/2025	14:30	LB135405
	Nickel	5.60	6.0	93	4	8	04/10/2025	14:30	LB135405
	Selenium	0.090	0.3	30	-9.7	10	04/10/2025	14:30	LB135405
	Silver	0.040			-2	2	04/10/2025	14:30	LB135405
	Thallium	0.11			-2	2	04/10/2025	14:30	LB135405
	Vanadium	0.16	0.5	32	-9.5	10.5	04/10/2025	14:30	LB135405
	Zinc	14.0	11.0	127	1	21	04/10/2025	14:30	LB135405
ICSAB01	Antimony	19.1	22.0	87	18	26	04/10/2025	14:51	LB135405
	Arsenic	18.8	19.0	99	16.2	21.9	04/10/2025	14:51	LB135405
	Barium	20.0	22.0	91	2	42	04/10/2025	14:51	LB135405
	Beryllium	18.1	19.0	95	16.2	21.9	04/10/2025	14:51	LB135405
	Cadmium	18.2	20.0	91	17	23	04/10/2025	14:51	LB135405
	Chromium	38.2	40.0	96	34	46	04/10/2025	14:51	LB135405
	Copper	26.5	25.0	106	21	29	04/10/2025	14:51	LB135405
	Lead	22.0	25.0	88	21.3	28.8	04/10/2025	14:51	LB135405
	Nickel	23.6	24.0	98	20.4	27.6	04/10/2025	14:51	LB135405
	Selenium	18.9	19.0	100	9	29	04/10/2025	14:51	LB135405
	Silver	17.3	18.0	96	15.3	20.7	04/10/2025	14:51	LB135405
	Thallium	18.3	21.0	87	17.9	24.2	04/10/2025	14:51	LB135405
	Vanadium	19.4	19.0	102	9	29	04/10/2025	14:51	LB135405
	Zinc	32.7	29.0	113	19	39	04/10/2025	14:51	LB135405
ICSA01	Antimony	1.30	1.5	87	-2.5	5.5	04/14/2025	16:23	LB135426
	Arsenic	0.31	0.1	310	-1.9	2.1	04/14/2025	16:23	LB135426
	Barium	1.52	1.2	127	-18.8	21.2	04/14/2025	16:23	LB135426
	Beryllium	0.33			-2	2	04/14/2025	16:23	LB135426
	Cadmium	0.54	0.7	77	-1.3	2.7	04/14/2025	16:23	LB135426
	Chromium	21.0	21.0	100	17	25	04/14/2025	16:23	LB135426
	Copper	7.96	8.0	100	4	12	04/14/2025	16:23	LB135426
	Lead	4.54	4.0	114	2	6	04/14/2025	16:23	LB135426
	Nickel	6.02	6.0	100	4	8	04/14/2025	16:23	LB135426
	Selenium	0.050	0.3	17	-9.7	10	04/14/2025	16:23	LB135426
	Silver	0.040			-2	2	04/14/2025	16:23	LB135426
	Thallium	0.070			-2	2	04/14/2025	16:23	LB135426
	Vanadium	0.15	0.5	30	-9.5	10.5	04/14/2025	16:23	LB135426
	Zinc	14.6	11.0	133	1	21	04/14/2025	16:23	LB135426

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

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	18.9	22.0	86	18	26	04/14/2025	16:38	LB135426
	Arsenic	18.9	19.0	100	16.2	21.9	04/14/2025	16:38	LB135426
	Barium	19.4	22.0	88	2	42	04/14/2025	16:38	LB135426
	Beryllium	20.6	19.0	108	16.2	21.9	04/14/2025	16:38	LB135426
	Cadmium	18.2	20.0	91	17	23	04/14/2025	16:38	LB135426
	Chromium	35.8	40.0	90	34	46	04/14/2025	16:38	LB135426
	Copper	24.5	25.0	98	21	29	04/14/2025	16:38	LB135426
	Lead	21.5	25.0	86	21.3	28.8	04/14/2025	16:38	LB135426
	Nickel	22.6	24.0	94	20.4	27.6	04/14/2025	16:38	LB135426
	Selenium	19.1	19.0	100	9	29	04/14/2025	16:38	LB135426
	Silver	17.1	18.0	95	15.3	20.7	04/14/2025	16:38	LB135426
	Thallium	18.0	21.0	86	17.9	24.2	04/14/2025	16:38	LB135426
	Vanadium	18.6	19.0	98	9	29	04/14/2025	16:38	LB135426
	Zinc	30.0	29.0	103	19	39	04/14/2025	16:38	LB135426

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1730

contract: NOBI03 **lab code:** CHEM **case no.:** Q1730 **sas no.:** Q1730

matrix: Water **sample id:** Q1730-20 **client id:** OU4-CF-15-040325MS

Percent Solids for Sample: NA **Spiked ID:** Q1730-20MS **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	491	D	10.0	UD	500	98		P
Arsenic	ug/L	84 - 116	1.75	JD	1.85	JD	500	0	N	P
Barium	ug/L	86 - 114	2330	D	118	D	2500	88		P
Beryllium	ug/L	83 - 121	486	D	5.00	UD	500	97		P
Cadmium	ug/L	87 - 115	473	D	5.00	UD	500	94		P
Chromium	ug/L	85 - 116	495	D	10.0	UD	500	99		P
Copper	ug/L	85 - 118	5360	D	49.0	D	5000	106		P
Lead	ug/L	88 - 115	2440	D	5.00	UD	2500	98		P
Nickel	ug/L	85 - 117	557	D	73.3	D	500	97		P
Mercury	ug/L	82 - 119	4.02		0.20	U	4.0	100		CV
Selenium	ug/L	80 - 120	488	D	50.0	UD	500	97		P
Silver	ug/L	85 - 116	79.9	D	5.00	UD	500	16	N	P
Thallium	ug/L	82 - 116	476	D	5.00	UD	500	95		P
Vanadium	ug/L	86 - 115	532	D	15.0	JD	500	103		P
Zinc	ug/L	83 - 119	5930	D	811	D	5000	102		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1730

contract: NOBI03 **lab code:** CHEM **case no.:** Q1730 **sas no.:** Q1730

matrix: Water **sample id:** Q1730-20 **client id:** OU4-CF-15-040325MSD

Percent Solids for Sample: NA **Spiked ID:** Q1730-20MSD **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	498	D	10.0	UD	500	99		P
Arsenic	ug/L	84 - 116	1.90	JD	1.85	JD	500	0	N	P
Barium	ug/L	86 - 114	2390	D	118	D	2500	91		P
Beryllium	ug/L	83 - 121	495	D	5.00	UD	500	99		P
Cadmium	ug/L	87 - 115	487	D	5.00	UD	500	97		P
Chromium	ug/L	85 - 116	491	D	10.0	UD	500	98		P
Copper	ug/L	85 - 118	5340	D	49.0	D	5000	106		P
Lead	ug/L	88 - 115	2440	D	5.00	UD	2500	98		P
Nickel	ug/L	85 - 117	558	D	73.3	D	500	97		P
Mercury	ug/L	82 - 119	3.94		0.20	U	4.0	98		CV
Selenium	ug/L	80 - 120	502	D	50.0	UD	500	100		P
Silver	ug/L	85 - 116	82.3	D	5.00	UD	500	16	N	P
Thallium	ug/L	82 - 116	482	D	5.00	UD	500	96		P
Vanadium	ug/L	86 - 115	528	D	15.0	JD	500	103		P
Zinc	ug/L	83 - 119	5860	D	811	D	5000	101		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Matrix: Water **Level:** LOW **Client ID:** OU4-CF-15-040325A

Sample ID: Q1730-20 **Spiked ID:** Q1730-20A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	84 - 116	1.70	JD	1.70	JD	500	0		P
Silver	ug/L	85 - 116	82.6	D	5.00	UD	500	17		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Nobis Group **Level:** LOW **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Matrix: Water **Sample ID:** Q1730-20 **Client ID:** OU4-CF-15-040325DUP

Percent Solids for Sample: NA **Duplicate ID** Q1730-20DUP **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	1.85	JD	1.80	JD	3		P
Barium	ug/L	20	118	D	117	D	1		P
Beryllium	ug/L	20	5.00	UD	5.00	UD			P
Cadmium	ug/L	20	5.00	UD	5.00	UD			P
Chromium	ug/L	20	10.0	UD	10.0	UD			P
Copper	ug/L	20	49.0	D	49.4	D	1		P
Lead	ug/L	20	5.00	UD	5.00	UD			P
Nickel	ug/L	20	73.3	D	73.8	D	1		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Selenium	ug/L	20	50.0	UD	50.0	UD			P
Silver	ug/L	20	5.00	UD	5.00	UD			P
Thallium	ug/L	20	5.00	UD	5.00	UD			P
Vanadium	ug/L	20	15.0	JD	15.0	JD	0		P
Zinc	ug/L	20	811	D	816	D	1		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.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Matrix: Water **Sample ID:** Q1730-20MS **Client ID:** OU4-CF-15-040325MSD

Percent Solids for Sample: NA **Duplicate ID** Q1730-20MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	491	D	498	D	1		P
Arsenic	ug/L	20	1.75	JD	1.90	JD	8		P
Barium	ug/L	20	2330	D	2390	D	3		P
Beryllium	ug/L	20	486	D	495	D	2		P
Cadmium	ug/L	20	473	D	487	D	3		P
Chromium	ug/L	20	495	D	491	D	1		P
Copper	ug/L	20	5360	D	5340	D	0		P
Lead	ug/L	20	2440	D	2440	D	0		P
Nickel	ug/L	20	557	D	558	D	0		P
Mercury	ug/L	20	4.02		3.94		2		CV
Selenium	ug/L	20	488	D	502	D	3		P
Silver	ug/L	20	79.9	D	82.3	D	3		P
Thallium	ug/L	20	476	D	482	D	1		P
Vanadium	ug/L	20	532	D	528	D	1		P
Zinc	ug/L	20	5930	D	5860	D	1		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.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167502BS							
Antimony	ug/L	500	514		103	85 - 117	P
Arsenic	ug/L	500	507		101	84 - 116	P
Barium	ug/L	2500	2560		102	86 - 114	P
Beryllium	ug/L	500	518		104	83 - 121	P
Cadmium	ug/L	500	522		104	87 - 115	P
Chromium	ug/L	500	503		101	85 - 116	P
Copper	ug/L	5000	5050		101	85 - 118	P
Lead	ug/L	2500	2470		99	88 - 115	P
Nickel	ug/L	500	501		100	85 - 117	P
Selenium	ug/L	500	493		99	80 - 120	P
Silver	ug/L	500	528		106	85 - 116	P
Thallium	ug/L	500	490		98	82 - 116	P
Vanadium	ug/L	500	507		101	86 - 115	P
Zinc	ug/L	5000	4970		99	83 - 119	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Nobis Group **SDG No.:** Q1730

Contract: NOBI03 **Lab Code:** CHEM **Case No.:** Q1730 **SAS No.:** Q1730

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167540BS							
Mercury	ug/L	4.0	4.05		101	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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

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	1155	100		100		100		100		100	
S2	S2	1158	100		101		101		102		100	
S3	S3	1205	101		100		101		101		101	
S4	S4	1208	101		99		100		100		102	
S5	S5	1211	100		95		98		97		99	
S6	S6	1214	97		94		97		93		99	
S7	S7	1217	94		92		94		88		96	
S8	S8	1219	86		85		87		77		89	
ICV01	ICV01	1358	100		105		104		104		102	
LLICV	LLICV	1416	96		104		100		102		97	
ICB01	ICB01	1420	96		104		102		102		98	
ICSA01	ICSA01	1430	93		97		97		90		96	
ICSAB01	ICSAB01	1451	97		98		98		93		98	
CCV01	CCV01	1454	90		93		94		85		92	
CCB01	CCB01	1458	106		102		102		104		99	
CRI	CRI	1502	104		104		104		104		100	
ZZZZZZ	ZZZZZZ	1507										
ZZZZZZ	ZZZZZZ	1512										
PB167502BL	PB167502BL	1517	99		104		104		104		101	
PB167502BS	PB167502BS	1522	96		102		101		95		97	
PB167502TB	PB167502TB	1533	100		107		106		105		101	
Q1730-02	OU4-VSL-15-	1555	94		107		128	*	101		99	
Q1730-04	OU4-VSL-16-	1559	94		107		129	*	101		98	
Q1730-06	OU4-VSL-17-	1602	98		109		131	*	101		101	
Q1730-08	OU4-PCS-TC-	1605	100		108		121	*	101		101	
CCV02	CCV02	1611	89		96		97		88		95	
CCB02	CCB02	1614	106		108		107		106		105	
Q1730-10	OU4-PCS-TC-	1619	102		105		122	*	100		101	
Q1730-12	OU4-PCS-TC-	1623	105		107		126	*	102		104	
Q1730-14	OU4-PCS-TC-	1626	102		107		111		100		104	
Q1730-16	OU4-PCS-TC-	1629	104		111		126	*	106		108	
Q1730-18	OU4-PCS-TC-	1632	101		109		124	*	104		104	
Q1730-20	OU4-CF-15-0	1636	101		108		123	*	104		104	
Q1730-20DUP	OU4-CF-15-0	1639	100		107		120		103		105	
Q1730-20L	OU4-CF-15-0	1642	102		108		111		106		105	
CCV03	CCV03	1646	91		96		97		88		96	

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

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
CCB03	CCB03	1649	108		102		107		106		106	
Q1730-20MS	OU4-CF-15-0	1653	104		105		118		100		105	
Q1730-20MSD	OU4-CF-15-0	1656	102		105		118		100		103	
Q1730-20A	OU4-CF-15-0	1659	100		104		117		99		102	
Q1730-02	OU4-VSL-15-	1702	102		108		120		105		105	
Q1730-04	OU4-VSL-16-	1705	103		108		120		104		105	
Q1730-06	OU4-VSL-17-	1708	103		110		122	*	105		104	
Q1730-12	OU4-PCS-TC-	1711	103		108		118		105		106	
Q1730-16	OU4-PCS-TC-	1715	101		108		115		105		104	
CCV04	CCV04	1719	91		98		99		90		97	
CCB04	CCB04	1723	108		106		108		108		105	

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

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	1155	100		100		100		100		100	
S2	S2	1158	101		101		100		100		100	
S3	S3	1205	98		99		99		100		99	
S4	S4	1208	95		97		96		99		100	
S5	S5	1211	95		96		94		98		97	
S6	S6	1214	94		93		90		96		95	
S7	S7	1217	94		92		87		95		95	
S8	S8	1219	88		91		78		92		92	
ICV01	ICV01	1358	105		105		102		103		104	
LLICV	LLICV	1416	104		105		102		101		102	
ICB01	ICB01	1420	104		105		104		102		102	
ICSA01	ICSA01	1430	96		96		89		97		96	
ICSAB01	ICSAB01	1451	95		96		90		98		97	
CCV01	CCV01	1454	96		94		85		95		94	
CCB01	CCB01	1458	101		102		104		102		102	
CRI	CRI	1502	102		103		103		102		102	
ZZZZZZ	ZZZZZZ	1507										
ZZZZZZ	ZZZZZZ	1512										
PB167502BL	PB167502BL	1517	101		101		103		100		100	
PB167502BS	PB167502BS	1522	103		99		95		99		98	
PB167502TB	PB167502TB	1533	103		102		103		101		101	
Q1730-02	OU4-VSL-15-	1555	104		132	*	99		101		101	
Q1730-04	OU4-VSL-16-	1559	101		131	*	97		99		100	
Q1730-06	OU4-VSL-17-	1602	102		132	*	99		100		101	
Q1730-08	OU4-PCS-TC-	1605	99		121	*	97		99		100	
CCV02	CCV02	1611	99		96		87		95		96	
CCB02	CCB02	1614	104		103		105		105		103	
Q1730-10	OU4-PCS-TC-	1619	98		118		98		99		100	
Q1730-12	OU4-PCS-TC-	1623	99		125	*	99		100		101	
Q1730-14	OU4-PCS-TC-	1626	100		105		99		101		101	
Q1730-16	OU4-PCS-TC-	1629	103		125	*	101		104		105	
Q1730-18	OU4-PCS-TC-	1632	99		120		99		102		103	
Q1730-20	OU4-CF-15-0	1636	98		111		99		102		102	
Q1730-20DUP	OU4-CF-15-0	1639	98		110		99		100		101	
Q1730-20L	OU4-CF-15-0	1642	99		102		102		101		101	
CCV03	CCV03	1646	92		92		85		95		94	

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

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
CCB03	CCB03	1649	94		97		103		102		102	
Q1730-20MS	OU4-CF-15-0	1653	95		109		97		100		102	
Q1730-20MSD	OU4-CF-15-0	1656	97		110		96		101		100	
Q1730-20A	OU4-CF-15-0	1659	97		110		96		99		100	
Q1730-02	OU4-VSL-15-	1702	101		115		102		101		103	
Q1730-04	OU4-VSL-16-	1705	101		118		103		102		102	
Q1730-06	OU4-VSL-17-	1708	102		121	*	103		102		102	
Q1730-12	OU4-PCS-TC-	1711	98		109		101		101		101	
Q1730-16	OU4-PCS-TC-	1715	98		107		100		101		101	
CCV04	CCV04	1719	93		93		87		95		95	
CCB04	CCB04	1723	99		101		104		103		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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/14/2025

Run Number: LB135426 | End Date : 04/14/2025

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	1505	100		100		100		100		100	
S2	S2	1512	102		100		101		99		100	
S3	S3	1515	104		99		101		98		99	
S4	S4	1518	101		97		98		95		100	
S5	S5	1521	97		95		97		93		99	
S6	S6	1524	97		93		96		91		99	
S7	S7	1527	93		92		95		87		98	
S8	S8	1530	88		90		92		79		93	
ICV01	ICV01	1556	106		104		105		103		105	
LLICV	LLICV	1609	105		105		105		104		104	
ICB01	ICB01	1612	106		106		104		104		104	
ICSA01	ICSA01	1623	97		102		99		92		99	
ICSAB01	ICSAB01	1638	100		108		106		96		103	
CCV01	CCV01	1641	93		103		100		90		99	
CCB01	CCB01	1644	105		112		110		108		106	
CRI	CRI	1647	104		112		108		107		105	
Q1730-06	OU4-VSL-17-	1651	107		114		116		106		107	
Q1730-08	OU4-PCS-TC-	1655	105		113		120		105		108	
Q1730-10	OU4-PCS-TC-	1658	102		114		120		105		106	
Q1730-18	OU4-PCS-TC-	1701	101		113		118		104		106	
Q1730-20	OU4-CF-15-0	1704	98		114		117		106		106	
Q1730-20DUP	OU4-CF-15-0	1708	83		100		104		92		92	
Q1730-20L	OU4-CF-15-0	1711	93		114		112		106		105	
CCV02	CCV02	1716	87		101		100		88		96	
CCB02	CCB02	1720	101		111		108		103		102	
Q1730-20MS	OU4-CF-15-0	1724	97		114		118		105		106	
Q1730-20MSD	OU4-CF-15-0	1727	95		115		118		105		106	
Q1730-20A	OU4-CF-15-0	1730	95		115		117		104		107	
CCV03	CCV03	1735	87		104		101		89		97	
CCB03	CCB03	1739	100		115		112		109		107	

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/14/2025

Run Number: LB135426 | End Date : 04/14/2025

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	1505	100		100		100		100		100	
S2	S2	1512	100		100		99		101		102	
S3	S3	1515	98		98		96		100		99	
S4	S4	1518	92		95		94		98		99	
S5	S5	1521	91		92		92		96		98	
S6	S6	1524	90		91		90		96		98	
S7	S7	1527	92		90		87		95		96	
S8	S8	1530	91		92		79		92		95	
ICV01	ICV01	1556	102		102		102		103		105	
LLICV	LLICV	1609	105		104		104		104		106	
ICB01	ICB01	1612	105		104		103		103		104	
ICSA01	ICSA01	1623	100		98		92		97		100	
ICSAB01	ICSAB01	1638	105		102		96		99		102	
CCV01	CCV01	1641	107		101		90		98		100	
CCB01	CCB01	1644	111		107		106		104		106	
CRI	CRI	1647	109		106		105		103		104	
Q1730-06	OU4-VSL-17-	1651	111		112		105		104		105	
Q1730-08	OU4-PCS-TC-	1655	109		113		103		101		103	
Q1730-10	OU4-PCS-TC-	1658	111		113		103		102		103	
Q1730-18	OU4-PCS-TC-	1701	111		113		103		103		103	
Q1730-20	OU4-CF-15-0	1704	111		112		104		102		104	
Q1730-20DUP	OU4-CF-15-0	1708	108		109		101		100		101	
Q1730-20L	OU4-CF-15-0	1711	112		108		106		103		104	
CCV02	CCV02	1716	106		98		88		94		98	
CCB02	CCB02	1720	111		106		107		101		105	
Q1730-20MS	OU4-CF-15-0	1724	111		112		104		103		104	
Q1730-20MSD	OU4-CF-15-0	1727	112		113		104		103		106	
Q1730-20A	OU4-CF-15-0	1730	112		114		103		103		104	
CCV03	CCV03	1735	108		100		90		96		99	
CCB03	CCB03	1739	113		108		108		104		106	

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

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	1155	100		100							
S2	S2	1158	100		100							
S3	S3	1205	101		100							
S4	S4	1208	102		100							
S5	S5	1211	101		99							
S6	S6	1214	99		94							
S7	S7	1217	98		90							
S8	S8	1219	90		78							
ICV01	ICV01	1358	101		100							
LLICV	LLICV	1416	97		97							
ICB01	ICB01	1420	99		98							
ICSA01	ICSA01	1430	96		89							
ICSAB01	ICSAB01	1451	98		91							
CCV01	CCV01	1454	92		84							
CCB01	CCB01	1458	100		100							
CRI	CRI	1502	101		100							
ZZZZZZ	ZZZZZZ	1507										
ZZZZZZ	ZZZZZZ	1512										
PB167502BL	PB167502BL	1517	100		100							
PB167502BS	PB167502BS	1522	99		93							
PB167502TB	PB167502TB	1533	101		101							
Q1730-02	OU4-VSL-15-(	1555	102		96							
Q1730-04	OU4-VSL-16-(	1559	102		95							
Q1730-06	OU4-VSL-17-(	1602	103		97							
Q1730-08	OU4-PCS-TC-2	1605	104		97							
CCV02	CCV02	1611	95		86							
CCB02	CCB02	1614	106		103							
Q1730-10	OU4-PCS-TC-2	1619	101		96							
Q1730-12	OU4-PCS-TC-2	1623	105		99							
Q1730-14	OU4-PCS-TC-2	1626	104		100							
Q1730-16	OU4-PCS-TC-2	1629	108		102							
Q1730-18	OU4-PCS-TC-2	1632	107		102							
Q1730-20	OU4-CF-15-04	1636	106		102							
Q1730-20DUP	OU4-CF-15-04	1639	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.: Q1730 Sas No.: Q1730 SDG No.: Q1730

Instrument ID: P8 Start Date : 04/10/2025

Run Number: LB135405 End Date : 04/10/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
Q1730-20L	OU4-CF-15-04	1642	105		103							
CCV03	CCV03	1646	97		87							
CCB03	CCB03	1649	106		106							
Q1730-20MS	OU4-CF-15-04	1653	106		100							
Q1730-20MSD	OU4-CF-15-04	1656	103		98							
Q1730-20A	OU4-CF-15-04	1659	104		98							
Q1730-02	OU4-VSL-15-0	1702	104		100							
Q1730-04	OU4-VSL-16-0	1705	104		99							
Q1730-06	OU4-VSL-17-0	1708	106		102							
Q1730-12	OU4-PCS-TC-2	1711	106		100							
Q1730-16	OU4-PCS-TC-2	1715	104		100							
CCV04	CCV04	1719	98		88							
CCB04	CCB04	1723	106		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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1155	100									
S2	S2	1158	100									
S3	S3	1205	100									
S4	S4	1208	98									
S5	S5	1211	95									
S6	S6	1214	92									
S7	S7	1217	88									
S8	S8	1219	79									
ICV01	ICV01	1358	101									
LLICV	LLICV	1416	102									
ICB01	ICB01	1420	101									
ICSA01	ICSA01	1430	89									
ICSAB01	ICSAB01	1451	90									
CCV01	CCV01	1454	85									
CCB01	CCB01	1458	100									
CRI	CRI	1502	101									
ZZZZZZ	ZZZZZZ	1507										
ZZZZZZ	ZZZZZZ	1512										
PB167502BL	PB167502BL	1517	100									
PB167502BS	PB167502BS	1522	92									
PB167502TB	PB167502TB	1533	100									
Q1730-02	OU4-VSL-15-(	1555	95									
Q1730-04	OU4-VSL-16-(	1559	94									
Q1730-06	OU4-VSL-17-(	1602	96									
Q1730-08	OU4-PCS-TC-2	1605	95									
CCV02	CCV02	1611	86									
CCB02	CCB02	1614	102									
Q1730-10	OU4-PCS-TC-2	1619	95									
Q1730-12	OU4-PCS-TC-2	1623	95									
Q1730-14	OU4-PCS-TC-2	1626	98									
Q1730-16	OU4-PCS-TC-2	1629	101									
Q1730-18	OU4-PCS-TC-2	1632	97									
Q1730-20	OU4-CF-15-04	1636	98									
Q1730-20DUP	OU4-CF-15-04	1639	96									

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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/10/2025

Run Number: LB135405 | End Date : 04/10/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
Q1730-20L	OU4-CF-15-04	1642	99									
CCV03	CCV03	1646	85									
CCB03	CCB03	1649	101									
Q1730-20MS	OU4-CF-15-04	1653	95									
Q1730-20MSD	OU4-CF-15-04	1656	95									
Q1730-20A	OU4-CF-15-04	1659	95									
Q1730-02	OU4-VSL-15-0	1702	99									
Q1730-04	OU4-VSL-16-0	1705	99									
Q1730-06	OU4-VSL-17-0	1708	99									
Q1730-12	OU4-PCS-TC-2	1711	99									
Q1730-16	OU4-PCS-TC-2	1715	100									
CCV04	CCV04	1719	85									
CCB04	CCB04	1723	103									

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.: Q1730 Sas No.: Q1730 SDG No.: Q1730

Instrument ID: P8 Start Date : 04/14/2025

Run Number: LB135426 End Date : 04/14/2025

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	1505	100		100							
S2	S2	1512	99		100							
S3	S3	1515	100		99							
S4	S4	1518	100		99							
S5	S5	1521	99		98							
S6	S6	1524	98		98							
S7	S7	1527	99		92							
S8	S8	1530	94		82							
ICV01	ICV01	1556	104		105							
LLICV	LLICV	1609	103		104							
ICB01	ICB01	1612	104		104							
ICSA01	ICSA01	1623	99		93							
ICSAB01	ICSAB01	1638	104		95							
CCV01	CCV01	1641	99		87							
CCB01	CCB01	1644	105		104							
CRI	CRI	1647	104		103							
Q1730-06	OU4-VSL-17-(	1651	106		103							
Q1730-08	OU4-PCS-TC-2	1655	104		104							
Q1730-10	OU4-PCS-TC-2	1658	106		103							
Q1730-18	OU4-PCS-TC-2	1701	106		100							
Q1730-20	OU4-CF-15-04	1704	106		102							
Q1730-20DUP	OU4-CF-15-04	1708	95		89							
Q1730-20L	OU4-CF-15-04	1711	104		102							
CCV02	CCV02	1716	95		85							
CCB02	CCB02	1720	102		100							
Q1730-20MS	OU4-CF-15-04	1724	106		102							
Q1730-20MSD	OU4-CF-15-04	1727	105		100							
Q1730-20A	OU4-CF-15-04	1730	104		102							
CCV03	CCV03	1735	97		87							
CCB03	CCB03	1739	106		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.: Q1730 | Sas No.: Q1730 | SDG No.: Q1730

Instrument ID: P8 | Start Date : 04/14/2025

Run Number: LB135426 | End Date : 04/14/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1505	100									
S2	S2	1512	101									
S3	S3	1515	98									
S4	S4	1518	96									
S5	S5	1521	94									
S6	S6	1524	91									
S7	S7	1527	87									
S8	S8	1530	80									
ICV01	ICV01	1556	103									
LLICV	LLICV	1609	103									
ICB01	ICB01	1612	102									
ICSA01	ICSA01	1623	92									
ICSAB01	ICSAB01	1638	92									
CCV01	CCV01	1641	87									
CCB01	CCB01	1644	104									
CRI	CRI	1647	102									
Q1730-06	OU4-VSL-17-(	1651	103									
Q1730-08	OU4-PCS-TC-2	1655	99									
Q1730-10	OU4-PCS-TC-2	1658	100									
Q1730-18	OU4-PCS-TC-2	1701	98									
Q1730-20	OU4-CF-15-04	1704	99									
Q1730-20DUP	OU4-CF-15-04	1708	97									
Q1730-20L	OU4-CF-15-04	1711	100									
CCV02	CCV02	1716	85									
CCB02	CCB02	1720	102									
Q1730-20MS	OU4-CF-15-04	1724	98									
Q1730-20MSD	OU4-CF-15-04	1727	99									
Q1730-20A	OU4-CF-15-04	1730	98									
CCV03	CCV03	1735	86									
CCB03	CCB03	1739	103									

Internal Standard %RI Limit: 30 -120

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

OU4-CF-15-040325L

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

Lab Code: CHEM **Lb No.:** lb135405 **Lab Sample ID :** Q1730-20L **SDG No.:** Q1730

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	1.85	JD	25.0	UD	100		P
Barium	118	D	118	JD	1		P
Beryllium	5.00	UD	25.0	UD			P
Cadmium	5.00	UD	25.0	UD			P
Chromium	10.0	UD	50.0	UD	12		P
Copper	49.0	D	49.5	JD	1		P
Lead	5.00	UD	25.0	UD			P
Nickel	73.3	D	71.3	D	3		P
Mercury	0.20	U	1.00	U			CV
Selenium	50.0	UD	250	UD			P
Silver	5.00	UD	25.0	UD			P
Thallium	5.00	UD	25.0	UD			P
Vanadium	15.0	JD	14.8	JD	1		P
Zinc	811	D	803	D	1		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q1730

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

Case No.: Q1730 **SAS No.:** Q1730

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167502**						
PB167502BL	PB167502BL	MB	WATER	04/08/2025	50.0	50.0	
PB167502BS	PB167502BS	LCS	WATER	04/08/2025	50.0	50.0	
PB167502TB	PB167502TB	MB	WATER	04/08/2025	50.0	50.0	
Q1730-02	OU4-VSL-15-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-04	OU4-VSL-16-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-06	OU4-VSL-17-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-08	OU4-PCS-TC-21-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-10	OU4-PCS-TC-22-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-12	OU4-PCS-TC-23-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-14	OU4-PCS-TC-24-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-16	OU4-PCS-TC-25-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-18	OU4-PCS-TC-26-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-20	OU4-CF-15-040325	SAM	WATER	04/08/2025	50.0	50.0	
Q1730-20DUP	OU4-CF-15-040325DUP	DUP	WATER	04/08/2025	50.0	50.0	
Q1730-20MS	OU4-CF-15-040325MS	MS	WATER	04/08/2025	50.0	50.0	
Q1730-20MSD	OU4-CF-15-040325MSD	MSD	WATER	04/08/2025	50.0	50.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Nobis Group **SDG No.:** Q1730

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

Case No.: Q1730 **SAS No.:** Q1730

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167540**						
PB167540BL	PB167540BL	MB	WATER	04/10/2025	30.0	30.0	
PB167540BS	PB167540BS	LCS	WATER	04/10/2025	30.0	30.0	
PB167540TB	PB167540TB	MB	WATER	04/10/2025	30.0	30.0	
Q1730-02	OU4-VSL-15-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-04	OU4-VSL-16-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-06	OU4-VSL-17-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-08	OU4-PCS-TC-21-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-10	OU4-PCS-TC-22-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-12	OU4-PCS-TC-23-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-14	OU4-PCS-TC-24-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-16	OU4-PCS-TC-25-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-18	OU4-PCS-TC-26-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-20	OU4-CF-15-040325	SAM	WATER	04/10/2025	30.0	30.0	
Q1730-20DUP	OU4-CF-15-040325DUP	DUP	WATER	04/10/2025	30.0	30.0	
Q1730-20MS	OU4-CF-15-040325MS	MS	WATER	04/10/2025	30.0	30.0	
Q1730-20MSD	OU4-CF-15-040325MSD	MSD	WATER	04/10/2025	30.0	30.0	

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metals
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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1730 **Sas no.:** Q1730 **Sdg no.:** Q1730

Instrument id number: **Method:** **Run number:** LB135365

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1241	HG
S0.2	S0.2	1	1244	HG
S2.5	S2.5	1	1246	HG
S5	S5	1	1248	HG
S7.5	S7.5	1	1250	HG
S10	S10	1	1253	HG
ICV83	ICV83	1	1301	HG
ICB83	ICB83	1	1303	HG
CCV53	CCV53	1	1306	HG
CCB53	CCB53	1	1308	HG
CRA	CRA	1	1310	HG
CCV54	CCV54	1	1338	HG
CCB54	CCB54	1	1341	HG
CCV55	CCV55	1	1406	HG
CCB55	CCB55	1	1408	HG
PB167540BL	PB167540BL	1	1424	HG
PB167540BS	PB167540BS	1	1426	HG
Q1730-02	OU4-VSL-15-040325	1	1428	HG
Q1730-04	OU4-VSL-16-040325	1	1431	HG
CCV56	CCV56	1	1436	HG
CCB56	CCB56	1	1438	HG
Q1730-06	OU4-VSL-17-040325	1	1440	HG
Q1730-08	OU4-PCS-TC-21-040325	1	1442	HG
Q1730-10	OU4-PCS-TC-22-040325	1	1445	HG
Q1730-12	OU4-PCS-TC-23-040325	1	1447	HG
Q1730-14	OU4-PCS-TC-24-040325	1	1449	HG
Q1730-16	OU4-PCS-TC-25-040325	1	1451	HG
Q1730-18	OU4-PCS-TC-26-040325	1	1454	HG
Q1730-20	OU4-CF-15-040325	1	1456	HG
Q1730-20DUP	OU4-CF-15-040325DUP	1	1458	HG
Q1730-20MS	OU4-CF-15-040325MS	1	1503	HG
CCV57	CCV57	1	1506	HG
CCB57	CCB57	1	1508	HG
Q1730-20MSD	OU4-CF-15-040325MSD	1	1510	HG
PB167540TB	PB167540TB	1	1515	HG
Q1730-20L	OU4-CF-15-040325L	5	1522	HG
CCV58	CCV58	1	1526	HG
CCB58	CCB58	1	1528	HG

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1730 **Sas no.:** Q1730 **Sdg no.:** Q1730

Instrument id number: **Method:** **Run number:** LB135405

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1155	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1158	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1205	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1208	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1211	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1214	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1217	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1219	,
ICV01	ICV01	1	1358	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV	LLICV	1	1416	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1420	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1430	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1451	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1454	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1458	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1502	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167502BL	PB167502BL	1	1517	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167502BS	PB167502BS	1	1522	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
PB167502TB	PB167502TB	1	1533	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-02	OU4-VSL-15-040325	5	1555	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-04	OU4-VSL-16-040325	5	1559	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-06	OU4-VSL-17-040325	5	1602	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-08	OU4-PCS-TC-21-040325	5	1605	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
CCV02	CCV02	1	1611	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1614	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-10	OU4-PCS-TC-22-040325	5	1619	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-12	OU4-PCS-TC-23-040325	5	1623	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-14	OU4-PCS-TC-24-040325	5	1626	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-16	OU4-PCS-TC-25-040325	5	1629	Ag,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-18	OU4-PCS-TC-26-040325	5	1632	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-20	OU4-CF-15-040325	5	1636	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-20DUP	OU4-CF-15-040325DUP	5	1639	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-20L	OU4-CF-15-040325L	25	1642	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
CCV03	CCV03	1	1646	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1649	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-20MS	OU4-CF-15-040325MS	5	1653	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-20MSD	OU4-CF-15-040325MSD	5	1656	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Tl,V,Zn
Q1730-20A	OU4-CF-15-040325A	5	1659	Ag
Q1730-02	OU4-VSL-15-040325	10	1702	As,Se
Q1730-04	OU4-VSL-16-040325	10	1705	As,Se
Q1730-12	OU4-PCS-TC-23-040325	10	1711	As,Se

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1730 **Sas no.:** Q1730 **Sdg no.:** Q1730

Instrument id number: **Method:** **Run number:** LB135405

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
Q1730-16	OU4-PCS-TC-25-040325	10	1715	As,Se
CCV04	CCV04	1	1719	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1723	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Nobis Group **Contract:** NOBI03

Lab code: CHEM **Case no.:** Q1730 **Sas no.:** Q1730 **Sdg no.:** Q1730

Instrument id number: **Method:** **Run number:** LB135426

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1505	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1512	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1515	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1518	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1521	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1524	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1527	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1530	,
ICV01	ICV01	1	1556	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV	LLICV	1	1609	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1612	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1623	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1638	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1641	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1644	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1647	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-06	OU4-VSL-17-040325	25	1651	As,Se
Q1730-08	OU4-PCS-TC-21-040325	10	1655	As,Se
Q1730-10	OU4-PCS-TC-22-040325	10	1658	Se
Q1730-18	OU4-PCS-TC-26-040325	10	1701	Se
Q1730-20	OU4-CF-15-040325	10	1704	Se
Q1730-20DUP	OU4-CF-15-040325DUP	10	1708	Se
Q1730-20L	OU4-CF-15-040325L	50	1711	Se
CCV02	CCV02	1	1716	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1720	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
Q1730-20MS	OU4-CF-15-040325MS	10	1724	Se
Q1730-20MSD	OU4-CF-15-040325MSD	10	1727	Se
CCV03	CCV03	1	1735	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1739	Ag,As,Ba,Be,Cd,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

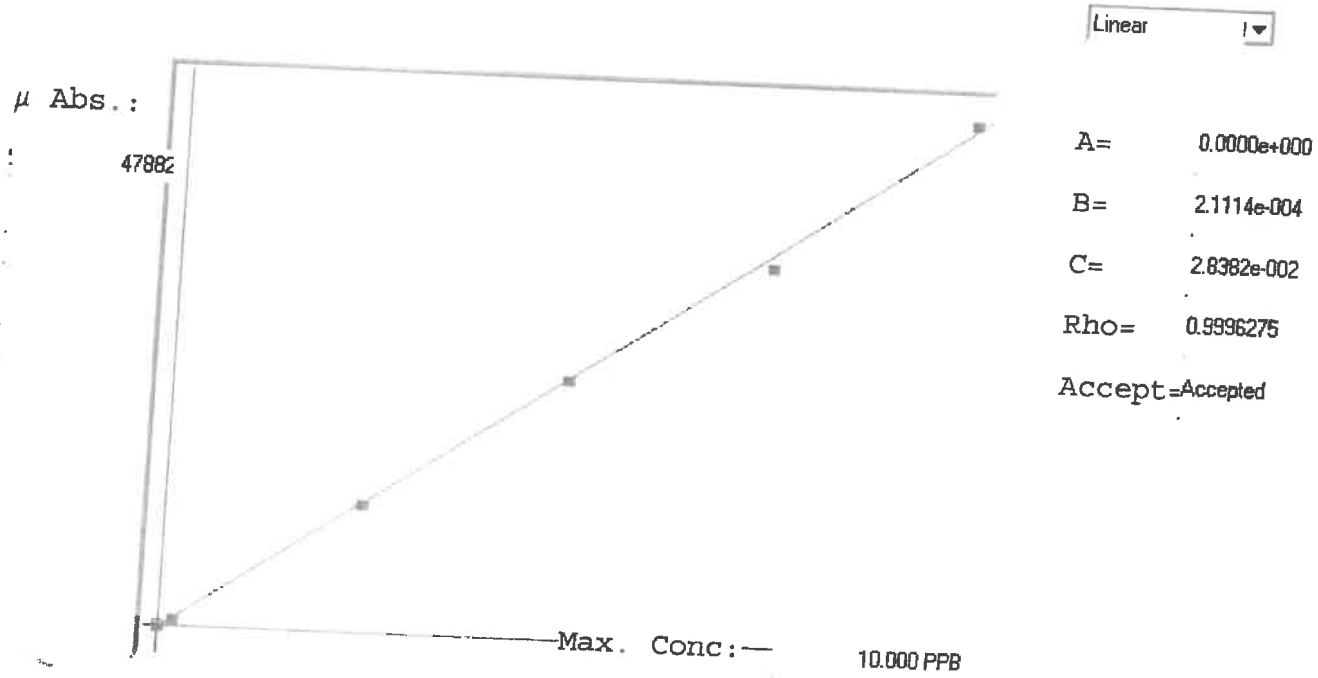
METAL
RAW DATA

Reviewed By:jaswal
On:4/14/2025 11:29:11 PM
Inst Id :CV1
LB :LB135365

LB135365

7470A

INSTRUMENT ID: CV1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	0.046	0.046	82	0.000	82	0				-
0.2	0.200	0.201	0.001	817	0.0 %	817					1
2.5	2.500	2.508	0.008	11745	0.0 %	11745					0
5.0	5.000	5.006	0.006	23577	0.0 %	23577					0
7.5	7.500	7.301	-0.199	34445	0.0 %	34445					-3
10.0	10.000	10.138	0.138	47882	0.0 %	47882					1

Reviewed By:jaswal
On:4/14/2025 11:29:11 PM
Inst Id :CV1
LB :LB135365

LB135365 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 10 Apr 2025 09:47:26

Sample ID	Extended ID	µ Abs	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	82	-	0.00000	7470A	PPB	10 Apr 2025 12:41:43	S	Std
0.2 - 1	S0.2	817	-	0.20000	7470A	PPB	10 Apr 2025 12:44:01	S	Std
2.5 - 1	S2.5	11745	-	2.50000	7470A	PPB	10 Apr 2025 12:46:18	S	Std
5.0 - 1	S5	23577	-	5.00000	7470A	PPB	10 Apr 2025 12:48:35	S	Std
7.5 - 1	S7.5	34445	-	7.50000	7470A	PPB	10 Apr 2025 12:50:53	S	Std
10.0 - 1	S10	47882	-	10.00000	7470A	PPB	10 Apr 2025 12:53:10	S	Std
ICV83 - 1	ICV83	19091	4.0592		7470A	PPB	10 Apr 2025 13:01:29	U	SMPL
ICB83 - 1	ICB83	-223	-0.0187		7470A	PPB	10 Apr 2025 13:03:44	U	SMPL
CCV53 - 1	CCV53	23474	4.9846		7470A	PPB	10 Apr 2025 13:06:02	U	SMPL
CCB53 - 1	CCB53	-314	-0.0379		7470A	PPB	10 Apr 2025 13:08:17	U	SMPL
CRA - 1	CRA	774	0.1918		7470A	PPB	10 Apr 2025 13:10:35	U	SMPL
HighStd - 1	HighStd	46900	9.9306		7470A	PPB	10 Apr 2025 13:12:49	U	SMPL
ChkStd - 1	ChkStd	30395	6.4458		7470A	PPB	10 Apr 2025 13:15:04	U	SMPL
PB167539BL - 1	PBW	-370	-0.0497		7470A	PPB	10 Apr 2025 13:17:23	U	SMPL
PB167539BS - 1	LCSW	17884	3.8043		7470A	PPB	10 Apr 2025 13:22:27	U	SMPL
Q1743-04 - 1	TP-16	-200	-0.0138		7470A	PPB	10 Apr 2025 13:24:43	U	SMPL
Q1743-04DUP - 1	TP-16DUP	-53	0.0172		7470A	PPB	10 Apr 2025 13:27:01	U	SMPL
Q1743-04MS - 1	TP-16MS	17208	3.6616		7470A	PPB	10 Apr 2025 13:31:56	U	SMPL
Q1743-04MSD - 1	TP-16MSD	16676	3.5493		7470A	PPB	10 Apr 2025 13:34:12	U	SMPL
Q1744-02 - 1	B-158-SB01	-186	-0.0109		7470A	PPB	10 Apr 2025 13:36:30	U	SMPL
CCV54 - 1	CCV54	23308	4.9495		7470A	PPB	10 Apr 2025 13:38:47	U	SMPL
CCB54 - 1	CCB54	-214	-0.0168		7470A	PPB	10 Apr 2025 13:41:02	U	SMPL
Q1744-04 - 1	B-158-SB02	11	0.0307		7470A	PPB	10 Apr 2025 13:43:20	U	SMPL
Q1745-04 - 1	IB-6A-WC	73	0.0438		7470A	PPB	10 Apr 2025 13:45:36	U	SMPL
Q1745-12 - 1	IB-6.5-WC	-33	0.0214		7470A	PPB	10 Apr 2025 13:47:51	U	SMPL
Q1746-02 - 1	B-149-SB01	-36	0.0208		7470A	PPB	10 Apr 2025 13:50:06	U	SMPL
Q1746-04 - 1	B-149-SB02	16	0.0318		7470A	PPB	10 Apr 2025 13:52:23	U	SMPL
Q1748-04 - 1	IB-1.5-WC	47	0.0383		7470A	PPB	10 Apr 2025 13:54:39	U	SMPL
Q1748-08 - 1	IB-2A-WC	56	0.0402		7470A	PPB	10 Apr 2025 13:56:55	U	SMPL
Q1749-04 - 1	TP-14	29	0.0345		7470A	PPB	10 Apr 2025 13:59:13	U	SMPL
Q1752-02 - 1	TP-1	69	0.0430		7470A	PPB	10 Apr 2025 14:01:30	U	SMPL
Q1752-04 - 1	TP-2	22	0.0330		7470A	PPB	10 Apr 2025 14:03:46	U	SMPL
CCV55 - 1	CCV55	22979	4.8801		7470A	PPB	10 Apr 2025 14:06:02	U	SMPL
CCB55 - 1	CCB55	-313	-0.0377		7470A	PPB	10 Apr 2025 14:08:18	U	SMPL
Q1752-06 - 1	TP-4	-49	0.0180		7470A	PPB	10 Apr 2025 14:10:35	U	SMPL
Q1752-08 - 1	TP-3	12	0.0309		7470A	PPB	10 Apr 2025 14:12:51	U	SMPL
Q1753-04 - 1	WC-1	20	0.0326		7470A	PPB	10 Apr 2025 14:15:07	U	SMPL
Q1753-08 - 1	WC-2	48	0.0385		7470A	PPB	10 Apr 2025 14:17:23	U	SMPL
Q1754-02 - 1	TP-1	89	0.0472		7470A	PPB	10 Apr 2025 14:19:38	U	SMPL
Q1754-04 - 1	TP-1-CONCRETE	45	0.0379		7470A	PPB	10 Apr 2025 14:21:55	U	SMPL
PB167540BL - 1	PBW	17	0.0320		7470A	PPB	10 Apr 2025 14:24:12	U	SMPL
PB167540BS - 1	LCSW	19042	4.0488		7470A	PPB	10 Apr 2025 14:26:29	U	SMPL
Q1730-02 - 1	OU4-VSL-15-040325	2759	0.6109		7470A	PPB	10 Apr 2025 14:28:46	U	SMPL
Q1730-04 - 1	OU4-VSL-16-040325	157	0.0615		7470A	PPB	10 Apr 2025 14:31:04	U	SMPL
CCV56 - 1	CCV56	23272	4.9419		7470A	PPB	10 Apr 2025 14:36:06	U	SMPL
CCB56 - 1	CCB56	-261	-0.0267		7470A	PPB	10 Apr 2025 14:38:21	U	SMPL
Q1730-06 - 1	OU4-VSL-17-040325	818	0.2011		7470A	PPB	10 Apr 2025 14:40:39	U	SMPL
Q1730-08 - 1	OU4-PCS-TC-21-040325	134	0.0567		7470A	PPB	10 Apr 2025 14:42:54	U	SMPL
Q1730-10 - 1	OU4-PCS-TC-22-040325	163	0.0628		7470A	PPB	10 Apr 2025 14:45:10	U	SMPL
Q1730-12 - 1	OU4-PCS-TC-23-040325	147	0.0594		7470A	PPB	10 Apr 2025 14:47:25	U	SMPL
Q1730-14 - 1	OU4-PCS-TC-24-040325	0	0.0284		7470A	PPB	10 Apr 2025 14:49:42	U	SMPL
Q1730-16 - 1	OU4-PCS-TC-25-040325	115	0.0527		7470A	PPB	10 Apr 2025 14:51:58	U	SMPL
Q1730-18 - 1	OU4-PCS-TC-26-040325	112	0.0520		7470A	PPB	10 Apr 2025 14:54:14	U	SMPL
Q1730-20 - 1	OU4-CF-15-040325	97	0.0489		7470A	PPB	10 Apr 2025 14:56:31	U	SMPL
Q1730-20DUP - 1	OU4-CF-15-040325DUP	125	0.0548		7470A	PPB	10 Apr 2025 14:58:48	U	SMPL
Q1730-20MS - 1	OU4-CF-15-040325MS	18894	4.0176		7470A	PPB	10 Apr 2025 15:03:49	U	SMPL
CCV57 - 1	CCV57	22666	4.8140		7470A	PPB	10 Apr 2025 15:06:04	U	SMPL
CCB57 - 1	CCB57	-257	-0.0259		7470A	PPB	10 Apr 2025 15:08:22	U	SMPL
Q1730-20MSD - 1	OU4-CF-15-040325MSD	18537	3.9422		7470A	PPB	10 Apr 2025 15:10:40	U	SMPL
PB167517TB - 1	PB167517TB	-223	-0.0187		7470A	PPB	10 Apr 2025 15:12:55	U	SMPL
~~PB167493TB~~ - 1	PB167493TB	17	0.0320		7470A	PPB	10 Apr 2025 15:15:13	U	SMPL
Q1743-04LX5 - 1		18	0.0322		7470A	PPB	10 Apr 2025 15:17:28	U	SMPL
Q1743-04A - 1		16402	3.4914		7470A	PPB	10 Apr 2025 15:19:44	U	SMPL
Q1730-20LX5 - 1		45	0.0379		7470A	PPB	10 Apr 2025 15:22:01	U	SMPL
Q1730-20A - 1		16145	3.4372		7470A	PPB	10 Apr 2025 15:24:18	U	SMPL
CCV58 - 1	CCV58	23589	5.0089		7470A	PPB	10 Apr 2025 15:26:36	U	SMPL
CCB58 - 1	CCB58	-313	-0.0377		7470A	PPB	10 Apr 2025 15:28:54	U	SMPL

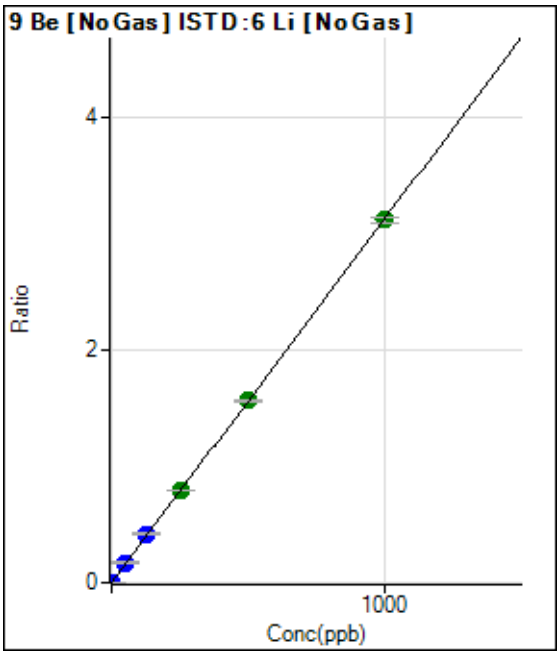
PB167493TB
PB167517TB
4/16/25

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041025 MS.b\
Analysis File: P8041025 MS.batch.bin
DA Date-Time: 2025-04-11 12:50:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-04-10 11:55:33
2	005CALS.d	S02	2025-04-10 11:58:55
3	007CALB.d	S03	2025-04-10 12:05:41
4	008CALS.d	S04	2025-04-10 12:08:43
5	009CALS.d	S05	2025-04-10 12:11:36
6	010CALS.d	S06	2025-04-10 12:14:23
7	011CALS.d	S07	2025-04-10 12:17:08
8	012CALS.d	S08	2025-04-10 12:19:58

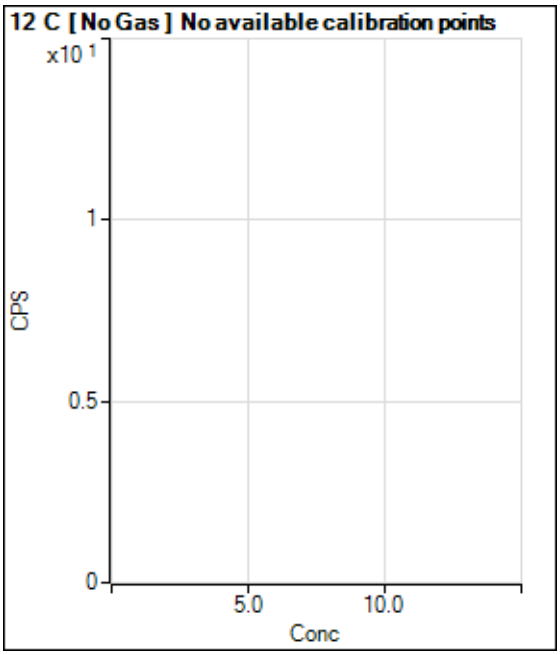
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	92.51	0.0000	P	2.8
2	☐	1.000	1.059	8603.36	0.0033	P	0.9
3	☐	50.000	55.493	450559.00	0.1732	P	1.1
4	☐	125.000	133.439	1081937.34	0.4164	P	2.5
5	☐	250.000	252.145	2016337.87	0.7868	A	0.6
6	☐	500.000	500.059	3889484.29	1.5603	A	0.9
7	☐	1000.000	998.105	7540947.92	3.1144	A	1.3
8	☐			1900.66	0.0009	P	3.2

y = 0.0031 * x + 3.6009E-005
R = 1.0000
DL = 0.0009618
BEC = 0.01154

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3969351.09		A	3.2
2	☐			4339141.88		A	3.2
3	☐			4293676.57		A	2.7
4	☐			4515989.86		A	1.5
5	☐			4814375.24		A	1.1
6	☐			5465492.83		A	1.1
7	☐			6870968.30		A	3.9
8	☐			4892886.56		A	2.1

Reviewed By:mohan
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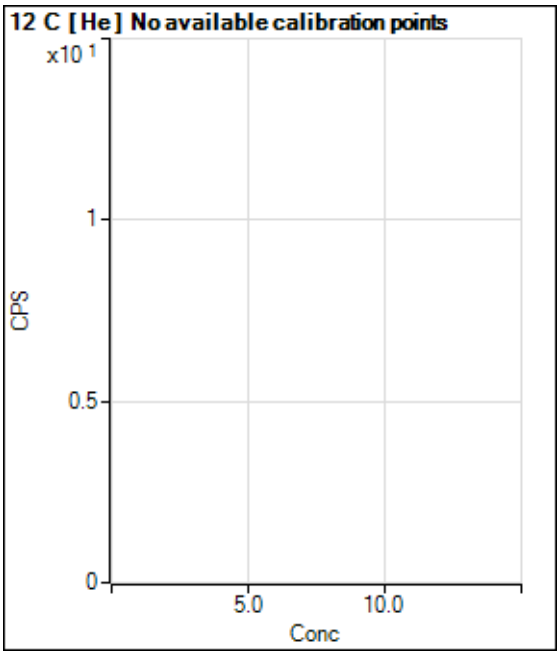
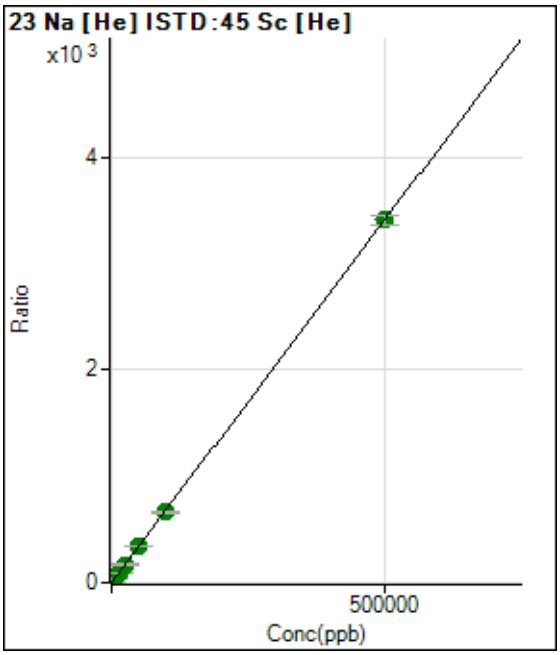
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			26437.17		P	1.2
2	☐			28868.37		P	1.0
3	☐			29232.43		P	2.5
4	☐			30854.61		P	0.5
5	☐			33915.77		P	1.2
6	☐			40333.03		P	1.1
7	☐			53290.48		P	0.6
8	☐			46555.61		P	1.2

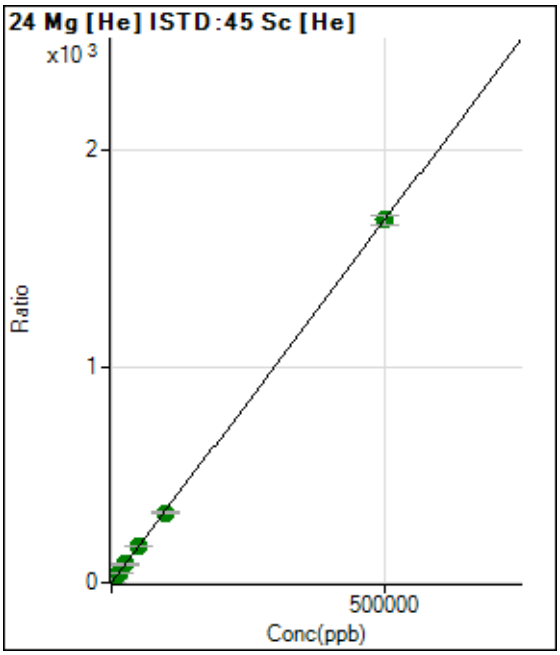


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56943.80	0.4408	P	0.7
2	☐	500.000	568.230	560940.32	4.3124	P	2.5
3	☐	5000.000	5215.424	4570167.29	35.9758	A	0.6
4	☐	12500.000	12703.801	10682754.49	86.9974	A	0.2
5	☐	25000.000	25050.445	21070624.41	171.1205	A	1.2
6	☐	50000.000	50328.332	41485510.21	343.3498	A	1.1
7	☐	100000.00	96848.646	79819132.70	660.3131	A	0.2
8	☐	500000.00	500587.59	387324660.89	3,411.1638	A	2.3

y = 0.0068 * x + 0.4408
R = 1.0000
DL = 1.454
BEC = 64.69

Weight: <None>
Min Conc: 0

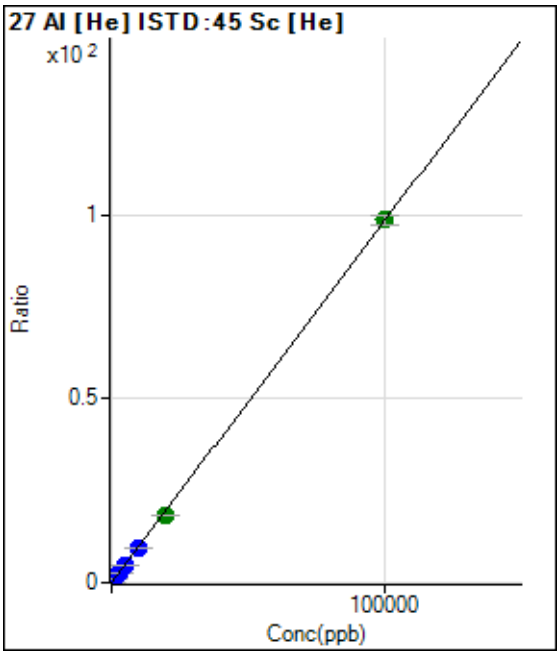
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	651.13	0.0050	P	10.6
2	☐	500.000	576.911	252500.10	1.9412	P	3.0
3	☐	5000.000	5367.682	2289081.37	18.0194	A	0.9
4	☐	12500.000	12864.458	5301897.39	43.1792	A	1.2
5	☐	25000.000	25341.153	10472595.19	85.0519	A	1.8
6	☐	50000.000	50504.929	20480482.06	169.5035	A	1.1
7	☐	100000.00	96720.241	39238779.42	324.6057	A	0.7
8	☐	500000.00	500575.53	190751488.27	1,679.9753	A	3.0

y = 0.0034 * x + 0.0050
R = 1.0000
DL = 0.4786
BEC = 1.501

Weight: <None>
Min Conc: 0

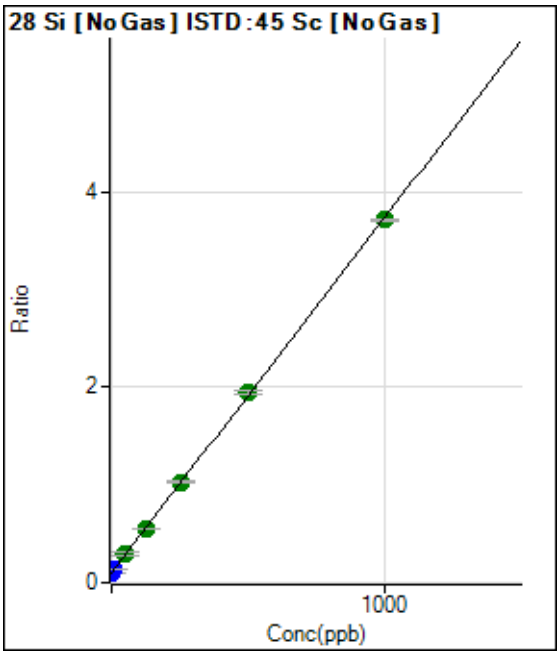


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	432.24	0.0033	P	15.0
2	☐	20.000	22.799	3350.42	0.0258	P	1.5
3	☐	1000.000	1024.576	128374.90	1.0106	P	0.1
4	☐	2500.000	2474.360	299096.42	2.4358	P	0.3
5	☐	5000.000	4878.171	590919.52	4.7989	P	0.4
6	☐	10000.000	9772.566	1161194.88	9.6103	P	0.7
7	☐	20000.000	18532.634	2202662.24	18.2219	A	1.9
8	☐	100000.00	100322.70	11198481.08	98.6260	A	2.8

y = 9.8305E-004 * x + 0.0033
R = 0.9999
DL = 1.534
BEC = 3.402

Weight: <None>
Min Conc: 0

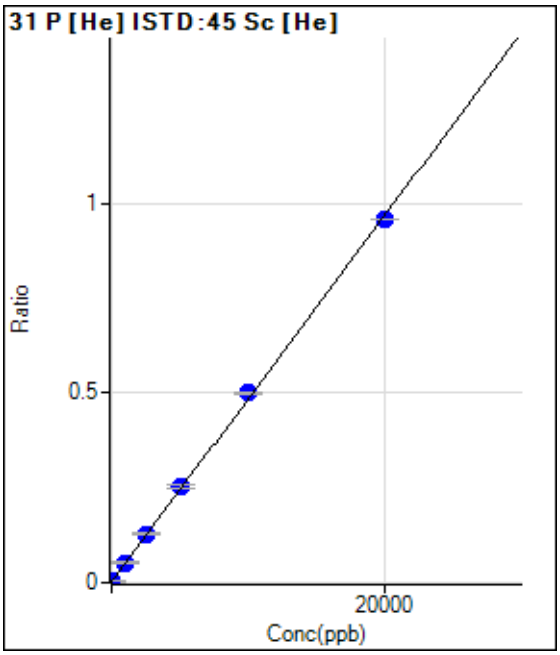
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	556996.03	0.1012	P	0.1
2	☐	10.000	7.527	711606.16	0.1285	P	0.7
3	☐	50.000	55.472	1660460.27	0.3026	A	12.2
4	☐	125.000	123.397	2990719.82	0.5492	A	1.2
5	☐	250.000	256.149	5390342.73	1.0311	A	1.0
6	☐	500.000	508.420	10073523.46	1.9469	A	2.3
7	☐	1000.000	994.204	18845330.55	3.7103	A	0.4
8	☐			805363.20	0.1728	P	4.6

y = 0.0036 * x + 0.1012
R = 0.9999
DL = 0.1224
BEC = 27.88

Weight: <None>
Min Conc: 0

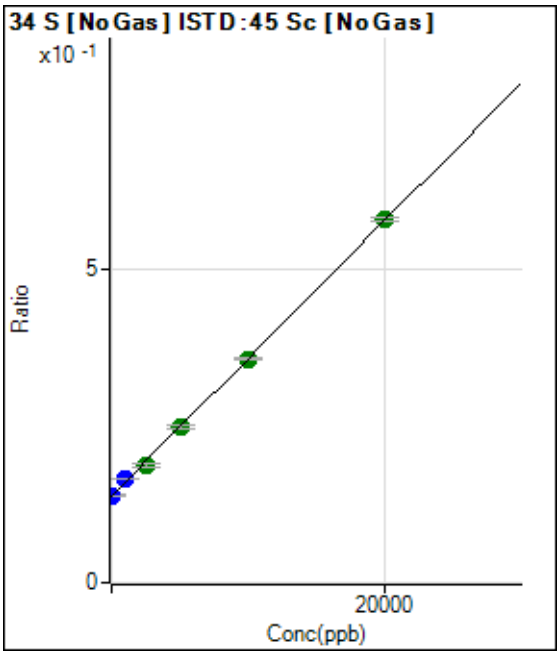


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-18.209	151.11	0.0012	P	27.3
2	☐	0.000	18.209	381.12	0.0029	P	3.3
3	☐	1000.000	1055.208	6736.07	0.0530	P	1.5
4	☐	2500.000	2633.166	15870.98	0.1293	P	1.8
5	☐	5000.000	5203.322	31201.31	0.2534	P	3.4
6	☐	10000.000	10308.643	60422.76	0.5001	P	0.5
7	☐	20000.000	19775.442	115732.32	0.9574	P	0.2
8	☐			150.00	0.0013	P	14.4

y = 4.8311E-005 * x + 0.0020
R = 0.9998
DL = 12.92
BEC = 42.42

Weight: <None>
Min Conc: 0

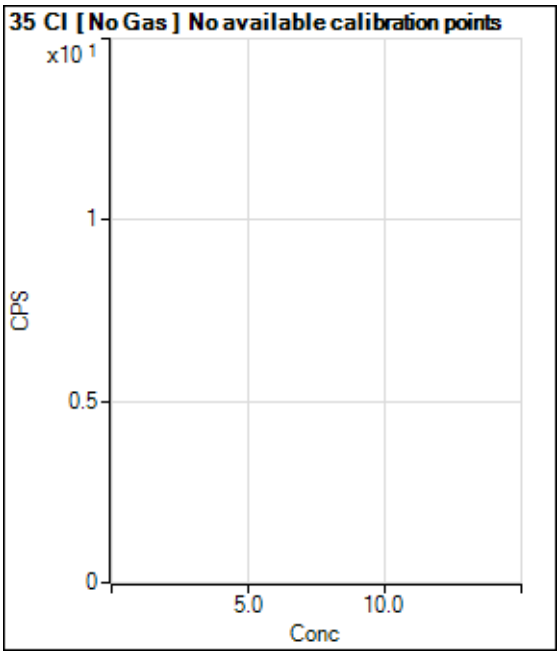
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	34.329	768789.19	0.1397	P	1.2
2	☐	0.000	-34.329	765083.71	0.1382	P	0.4
3	☐	1000.000	1224.295	910977.49	0.1659	P	0.6
4	☐	2500.000	2196.850	1019878.09	0.1873	A	2.3
5	☐	5000.000	5036.822	1305654.39	0.2498	A	2.1
6	☐	10000.000	9947.596	1851542.73	0.3578	A	1.2
7	☐	20000.000	20043.675	2945577.56	0.5799	A	1.1
8	☐			542986.33	0.1165	P	0.9

y = 2.2000E-005 * x + 0.1390
R = 0.9998
DL = 151.6
BEC = 6317

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			128921.09		P	0.2
2	☐			136963.89		P	0.2
3	☐			135365.70		P	1.1
4	☐			142931.62		P	0.6
5	☐			152512.48		P	0.6
6	☐			171355.40		P	1.2
7	☐			212550.08		P	1.5
8	☐			124929.82		P	1.4

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
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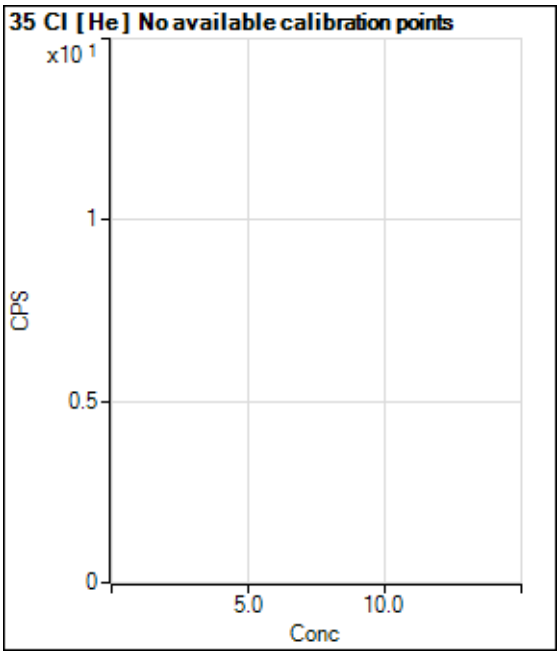
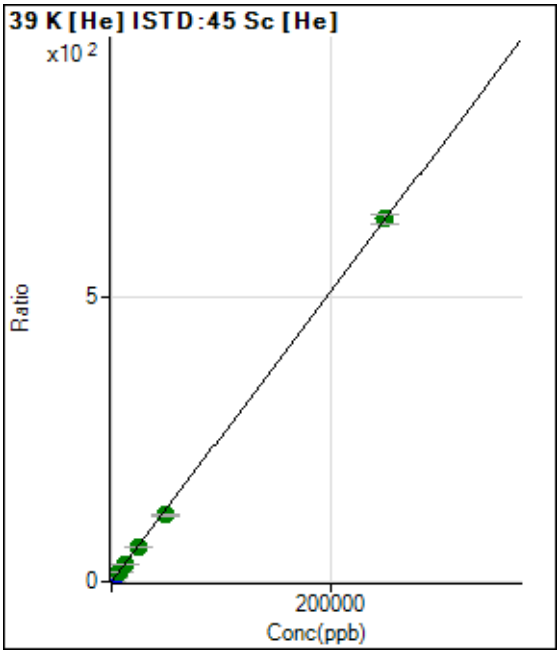
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			594.46		P	5.3
2	☐			630.02		P	1.9
3	☐			613.36		P	13.1
4	☐			628.91		P	7.1
5	☐			675.58		P	5.7
6	☐			825.59		P	5.6
7	☐			1053.38		P	3.1
8	☐			647.80		P	3.0

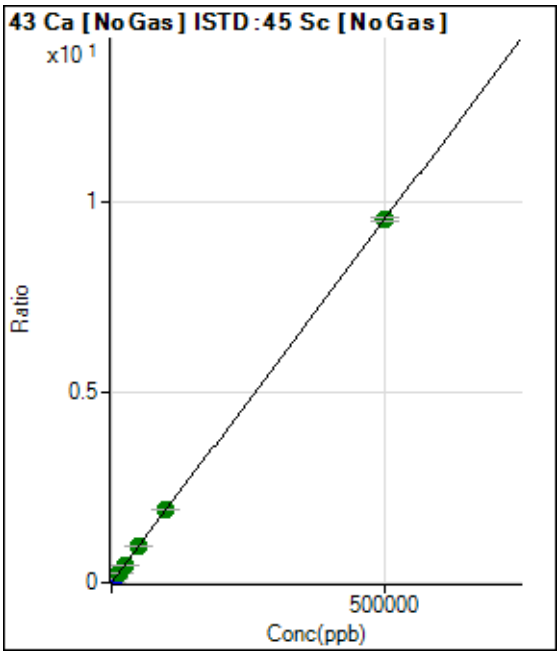


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20095.14	0.1556	P	2.8
2	☐	500.000	514.537	190592.43	1.4652	P	2.1
3	☐	2500.000	2484.869	823207.06	6.4803	P	0.5
4	☐	6250.000	6042.079	1907507.53	15.5344	A	0.5
5	☐	12500.000	11867.782	3738566.47	30.3624	A	1.5
6	☐	25000.000	23731.943	7317588.50	60.5600	A	0.2
7	☐	50000.000	45917.326	14146115.90	117.0280	A	1.2
8	☐	250000.00	250980.27	72551961.14	638.9704	A	2.8

y = 0.0025 * x + 0.1556
R = 0.9999
DL = 5.136
BEC = 61.13

Weight: <None>
Min Conc: 0

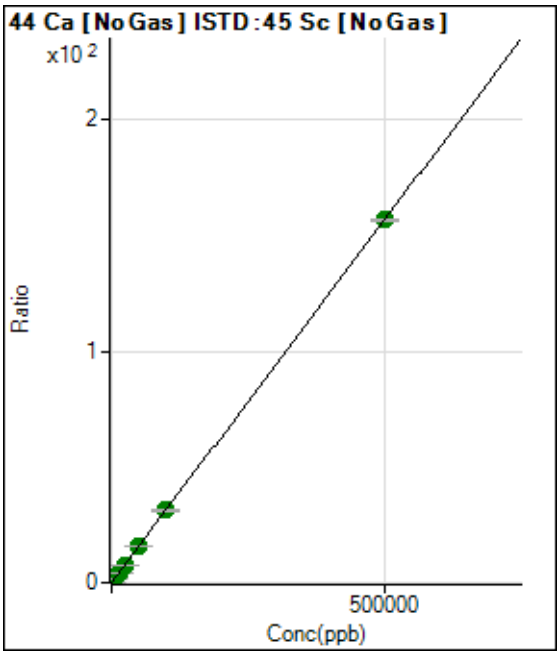
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2354.66	0.0004	P	3.1
2	☐	500.000	537.780	59037.16	0.0107	P	1.6
3	☐	5000.000	5215.029	547351.91	0.0997	P	1.9
4	☐	12500.000	12509.699	1299084.20	0.2385	A	0.9
5	☐	25000.000	24870.404	2476880.43	0.4738	A	1.5
6	☐	50000.000	50229.906	4949616.97	0.9565	A	1.3
7	☐	100000.00	100846.78	9751667.63	1.9199	A	1.6
8	☐	500000.00	499811.70	44343881.56	9.5136	A	1.2

y = 1.9034E-005 * x + 4.2801E-004
R = 1.0000
DL = 2.079
BEC = 22.49

Weight: <None>
Min Conc: 0

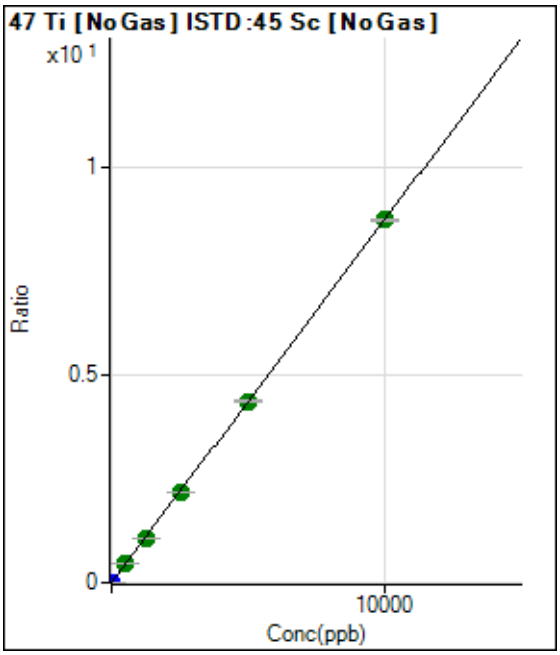


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61195.20	0.0111	P	1.5
2	☐	500.000	536.122	991788.03	0.1792	P	0.4
3	☐	5000.000	5027.813	8714604.66	1.5871	A	1.0
4	☐	12500.000	12268.393	21002123.57	3.8566	A	1.2
5	☐	25000.000	24607.966	40384170.51	7.7244	A	1.0
6	☐	50000.000	49724.873	80706706.02	15.5972	A	1.4
7	☐	100000.00	99894.044	159094362.07	31.3225	A	1.4
8	☐	500000.00	500073.78	730652406.89	156.7571	A	0.7

y = 3.1345E-004 * x + 0.0111
R = 1.0000
DL = 1.624
BEC = 35.48

Weight: <None>
Min Conc: 0

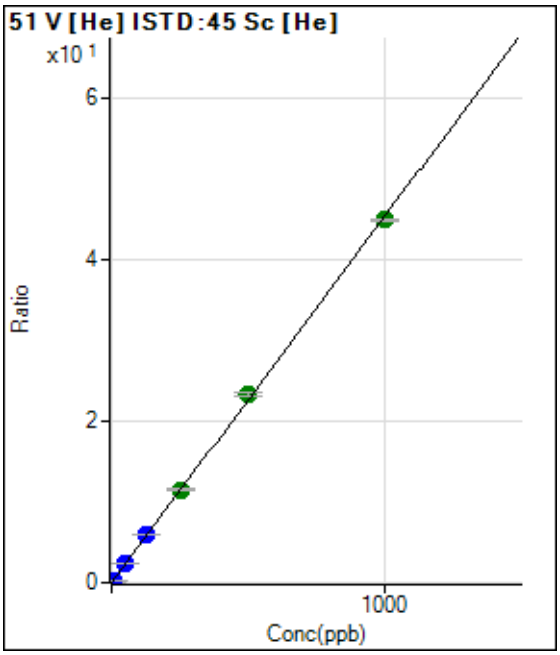
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	342.23	0.0001	P	3.5
2	☐	5.000	5.432	26611.37	0.0048	P	0.6
3	☐	500.000	511.631	2454307.77	0.4470	A	1.3
4	☐	1250.000	1217.281	5791193.04	1.0634	A	0.7
5	☐	2500.000	2493.991	11390515.39	2.1786	A	0.4
6	☐	5000.000	5006.583	22629848.83	4.3734	A	1.4
7	☐	10000.000	10001.719	44374811.01	8.7367	A	0.5
8	☐			3510.47	0.0008	P	1.4

y = 8.7351E-004 * x + 6.2192E-005
R = 1.0000
DL = 0.007411
BEC = 0.0712

Weight: <None>
Min Conc: 0

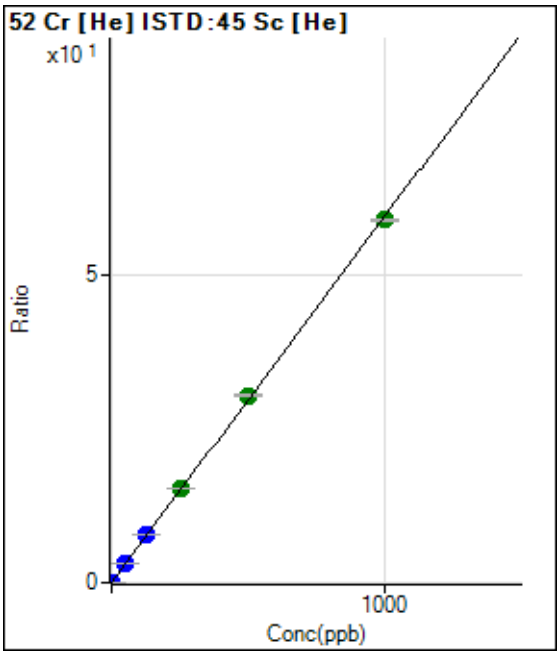


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0002	P	14.4
2	☐	5.000	5.503	32509.15	0.2499	P	3.7
3	☐	50.000	52.511	302726.03	2.3830	P	0.2
4	☐	125.000	128.987	718743.01	5.8533	P	0.3
5	☐	250.000	254.654	1422983.35	11.5556	A	0.4
6	☐	500.000	513.536	2815499.75	23.3030	A	2.0
7	☐	1000.000	991.442	5438312.00	44.9889	A	0.4
8	☐			1422.31	0.0125	P	6.2

y = 0.0454 * x + 2.2385E-004
R = 0.9999
DL = 0.002133
BEC = 0.004933

Weight: <None>
Min Conc: 0

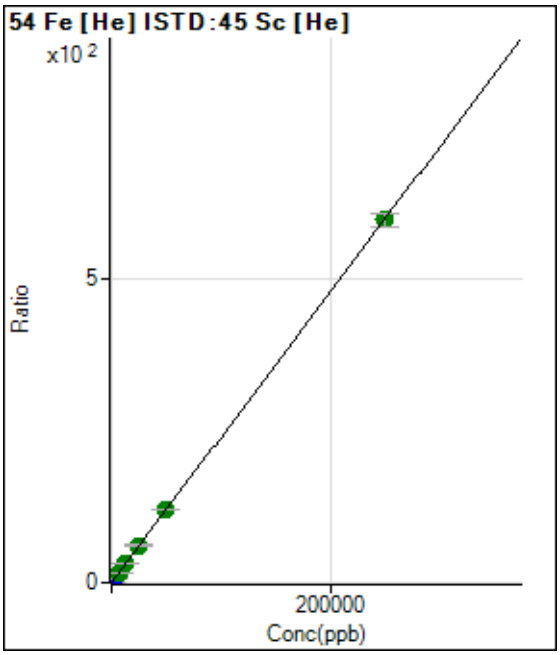
Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1762.36	0.0136	P	5.0
2	☐	2.000	2.196	18747.95	0.1441	P	2.1
3	☐	50.000	52.916	401239.74	3.1586	P	0.5
4	☐	125.000	130.004	950433.75	7.7401	P	0.4
5	☐	250.000	259.058	1897588.29	15.4102	A	0.7
6	☐	500.000	511.042	3671533.17	30.3863	A	0.7
7	☐	1000.000	991.443	7124461.35	58.9379	A	0.6
8	☐			61071.81	0.5379	P	3.3

y = 0.0594 * x + 0.0136
R = 0.9999
DL = 0.03467
BEC = 0.2295

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1021.16	0.0079	P	4.2
2	☐	50.000	57.533	18962.69	0.1458	P	3.9
3	☐	2500.000	2703.011	823981.86	6.4864	P	0.4
4	☐	6250.000	6729.972	1981663.75	16.1380	A	1.0
5	☐	12500.000	13019.698	3843593.94	31.2129	A	1.1
6	☐	25000.000	25820.405	7478454.54	61.8931	A	0.6
7	☐	50000.000	50123.372	14522987.56	120.1414	A	1.2
8	☐	250000.00	249853.26	67993923.99	598.8452	A	3.9

y = 0.0024 * x + 0.0079
R = 1.0000
DL = 0.4111
BEC = 3.298

Weight: <None>
Min Conc: 0

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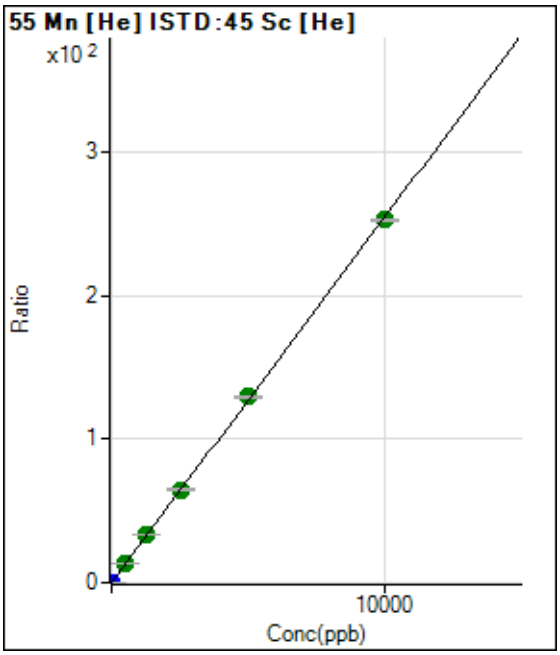
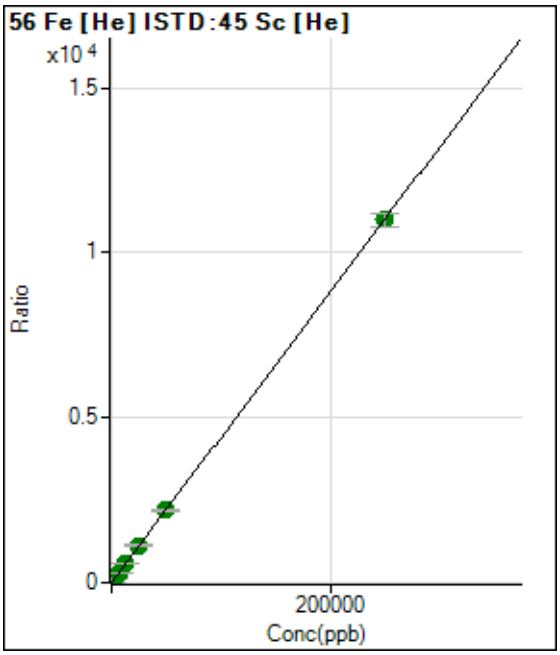


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1078.94	0.0084	P	4.2
2	☐	1.000	1.102	4735.28	0.0364	P	3.1
3	☐	500.000	530.778	1716602.20	13.5128	A	0.9
4	☐	1250.000	1306.064	4081461.95	33.2382	A	0.2
5	☐	2500.000	2542.177	7965592.03	64.6884	A	1.0
6	☐	5000.000	5093.830	15660030.04	129.6094	A	1.3
7	☐	10000.000	9933.994	30553239.82	252.7566	A	0.5
8	☐			15933.48	0.1403	P	2.9

y = 0.0254 * x + 0.0084
R = 0.9999
DL = 0.04161
BEC = 0.3283

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13160.59	0.1019	P	2.2
2	☐	50.000	56.341	335696.12	2.5806	P	2.3
3	☐	2500.000	2680.235	14992305.05	118.0197	A	0.9
4	☐	6250.000	6600.541	35670648.63	290.4949	A	0.1
5	☐	12500.000	12890.349	69844198.40	567.2172	A	0.9
6	☐	25000.000	25807.296	137198072.40	1,135.5026	A	1.3
7	☐	50000.000	49721.020	264432602.73	2,187.5950	A	1.0
8	☐	250000.00	249944.98	1248546256.9	10,996.515	A	3.9

y = 0.0440 * x + 0.1019
R = 1.0000
DL = 0.1531
BEC = 2.316

Weight: <None>
Min Conc: 0

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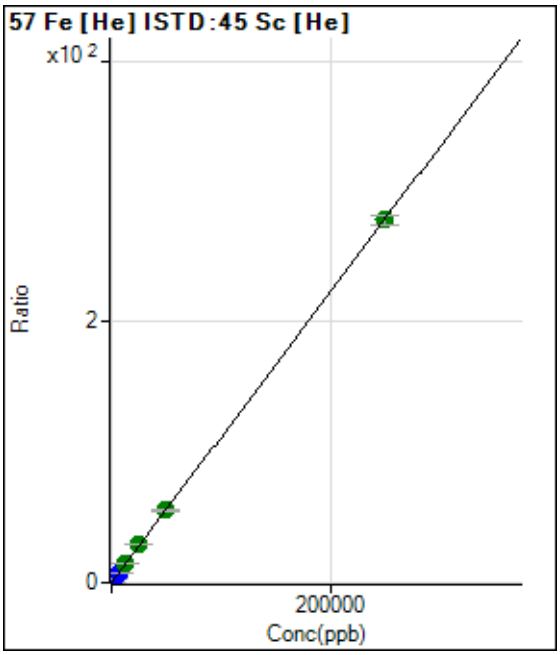
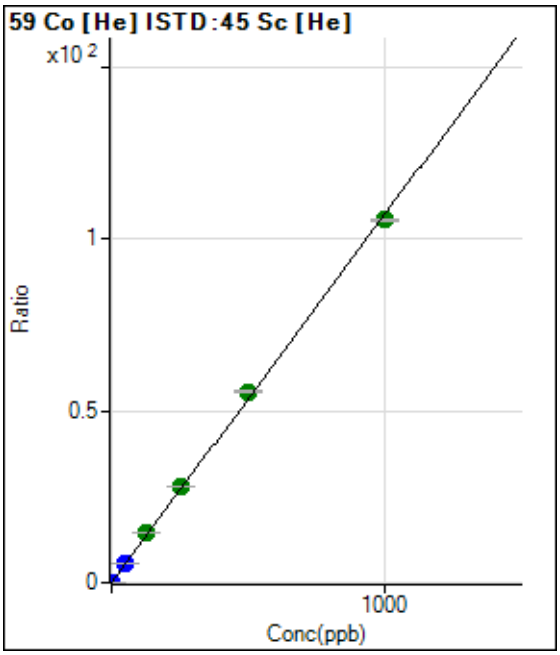


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.34	0.0020	P	16.6
2	☐	50.000	56.593	8454.79	0.0650	P	3.2
3	☐	2500.000	2658.370	376002.06	2.9599	P	0.2
4	☐	6250.000	6518.644	890845.20	7.2550	P	0.4
5	☐	12500.000	13091.983	1793947.16	14.5688	A	0.5
6	☐	25000.000	26197.949	3522260.40	29.1510	A	0.7
7	☐	50000.000	49796.054	6697620.18	55.4073	A	0.6
8	☐	250000.00	249883.09	31569193.70	278.0328	A	3.0

y = 0.0011 * x + 0.0020
R = 1.0000
DL = 0.9121
BEC = 1.834

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0010	P	25.1
2	☐	1.000	1.192	16736.61	0.1287	P	2.2
3	☐	50.000	53.409	726768.42	5.7210	P	0.1
4	☐	125.000	134.676	1771299.97	14.4246	A	0.8
5	☐	250.000	259.777	3426040.78	27.8227	A	0.3
6	☐	500.000	520.011	6729443.65	55.6935	A	0.5
7	☐	1000.000	986.170	12767302.03	105.6185	A	0.4
8	☐			26462.41	0.2331	P	3.7

y = 0.1071 * x + 9.9718E-004
R = 0.9996
DL = 0.00701
BEC = 0.009311

Weight: <None>
Min Conc: 0

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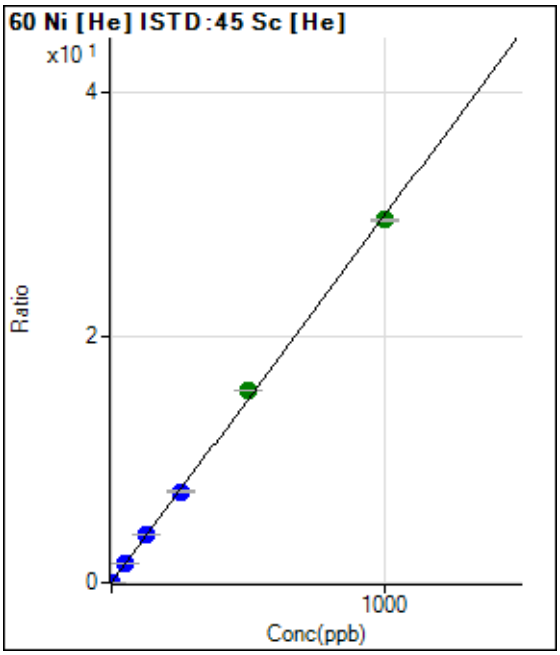
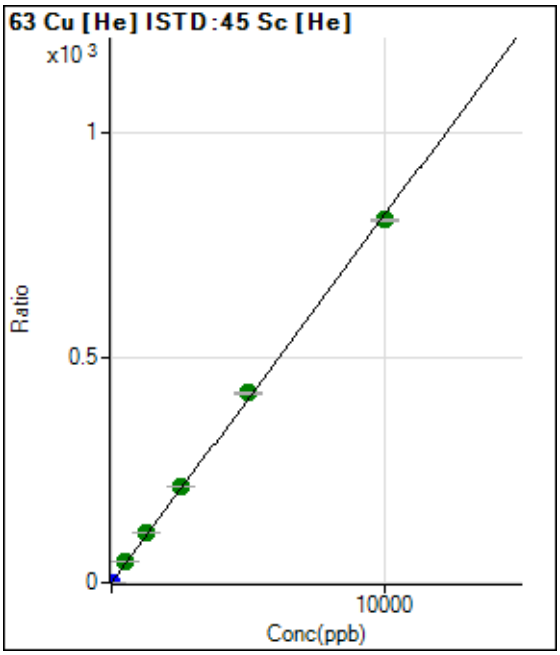


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1935.71	0.0150	P	1.1
2	☐	1.000	0.909	5483.33	0.0422	P	2.7
3	☐	50.000	52.599	201755.47	1.5882	P	0.2
4	☐	125.000	128.893	475230.25	3.8701	P	0.4
5	☐	250.000	248.385	916624.12	7.4441	P	0.7
6	☐	500.000	522.596	1890508.91	15.6456	A	0.3
7	☐	1000.000	988.489	3575658.49	29.5803	A	0.2
8	☐			16346.17	0.1440	P	3.3

y = 0.0299 * x + 0.0150
R = 0.9996
DL = 0.01705
BEC = 0.501

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3499.37	0.0271	P	2.5
2	☐	2.000	2.415	29167.78	0.2242	P	1.4
3	☐	500.000	550.790	5715010.82	44.9884	A	0.5
4	☐	1250.000	1352.624	13561737.85	110.4426	A	0.5
5	☐	2500.000	2624.481	26383727.66	214.2651	A	0.7
6	☐	5000.000	5174.900	51045183.13	422.4573	A	1.0
7	☐	10000.000	9866.062	97356078.55	805.3998	A	0.6
8	☐			25557.51	0.2251	P	2.9

y = 0.0816 * x + 0.0271
R = 0.9997
DL = 0.02479
BEC = 0.3319

Weight: <None>
Min Conc: 0

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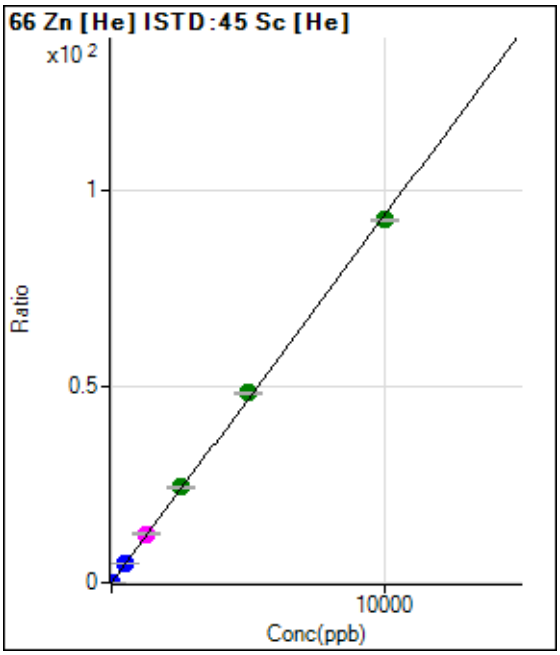
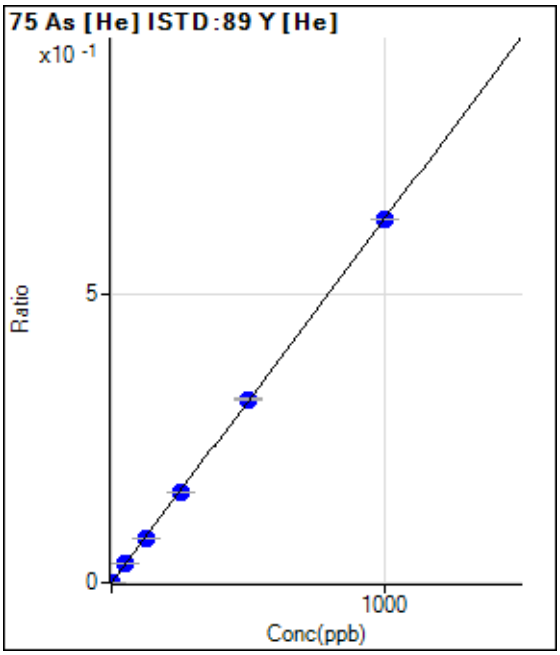


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3508.25	0.0272	P	3.0
2	☐	2.000	5.372	10065.88	0.0774	P	1.8
3	☐	500.000	527.682	630128.99	4.9604	P	0.8
4	☐	1250.000	1332.394	1533014.61	12.4835	M	2.0
5	☐	2500.000	2610.476	3008254.61	24.4321	A	2.1
6	☐	5000.000	5161.666	5833880.54	48.2829	A	1.3
7	☐	10000.000	9879.864	11168407.19	92.3926	A	0.6
8	☐			65472.51	0.5766	P	3.2

y = 0.0093 * x + 0.0272
R = 0.9997
DL = 0.2571
BEC = 2.905

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.
2	☐	1.000	1.055	835.59	0.0007	P	1.7
3	☐	50.000	50.900	39478.49	0.0321	P	1.3
4	☐	125.000	123.051	93554.38	0.0775	P	1.2
5	☐	250.000	249.350	186788.36	0.1570	P	0.4
6	☐	500.000	505.059	367764.06	0.3181	P	0.1
7	☐	1000.000	997.832	712945.00	0.6284	P	0.2
8	☐			345.56	0.0003	P	3.2

y = 6.2980E-004 * x + 3.5850E-006
R = 1.0000
DL = 0.01958
BEC = 0.005692

Weight: <None>
Min Conc: 0

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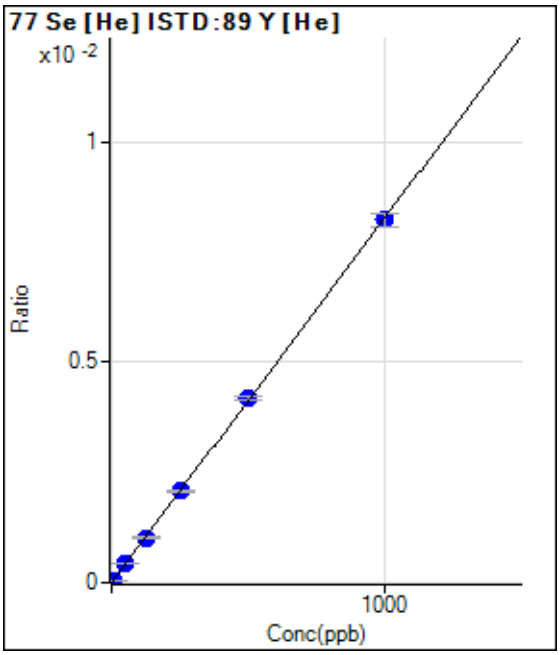
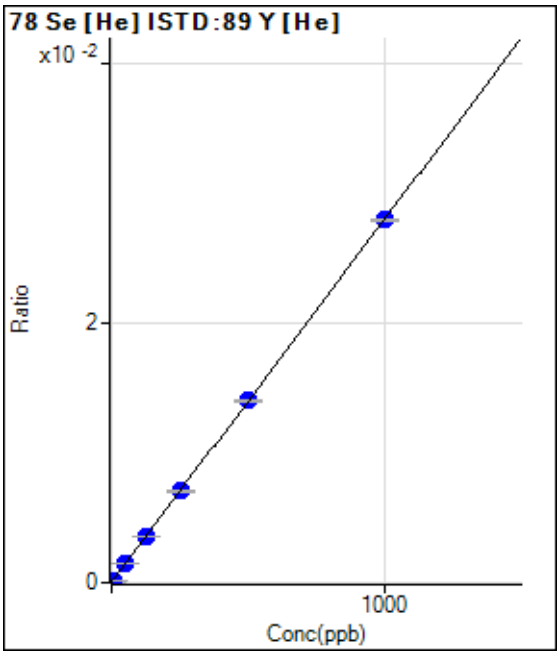


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.050	52.22	0.0000	P	28.9
3	☐	50.000	52.047	530.02	0.0004	P	4.3
4	☐	125.000	123.119	1228.96	0.0010	P	5.3
5	☐	250.000	251.370	2472.46	0.0021	P	3.2
6	☐	500.000	507.863	4855.33	0.0042	P	2.0
7	☐	1000.000	995.859	9342.07	0.0082	P	3.8
8	☐			7.78	0.0000	P	49.6

y = 8.2696E-006 * x + 0.0000E+000
R = 0.9999
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.44	0.0000	P	55.9
2	☐	5.000	4.954	207.78	0.0002	P	17.0
3	☐	50.000	50.713	1777.91	0.0014	P	3.1
4	☐	125.000	125.869	4276.25	0.0035	P	3.7
5	☐	250.000	251.559	8387.01	0.0071	P	2.4
6	☐	500.000	501.445	16219.43	0.0140	P	1.2
7	☐	1000.000	998.744	31668.93	0.0279	P	0.5
8	☐			55.56	0.0000	P	20.8

y = 2.7921E-005 * x + 2.7795E-005
R = 1.0000
DL = 1.671
BEC = 0.9955

Weight: <None>
Min Conc: 0

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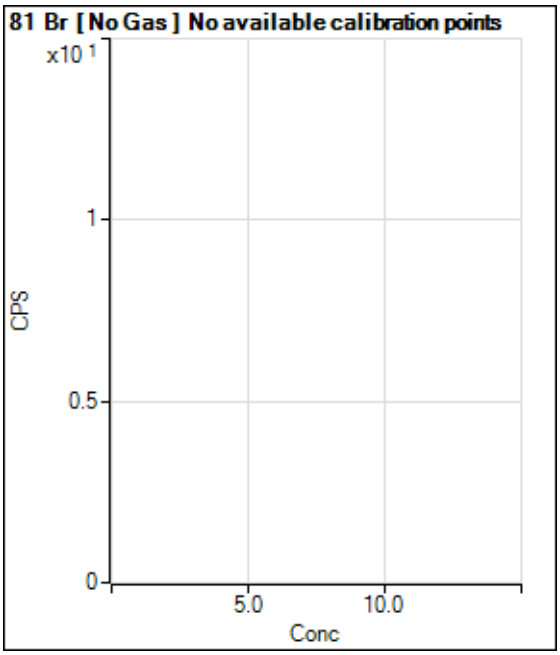
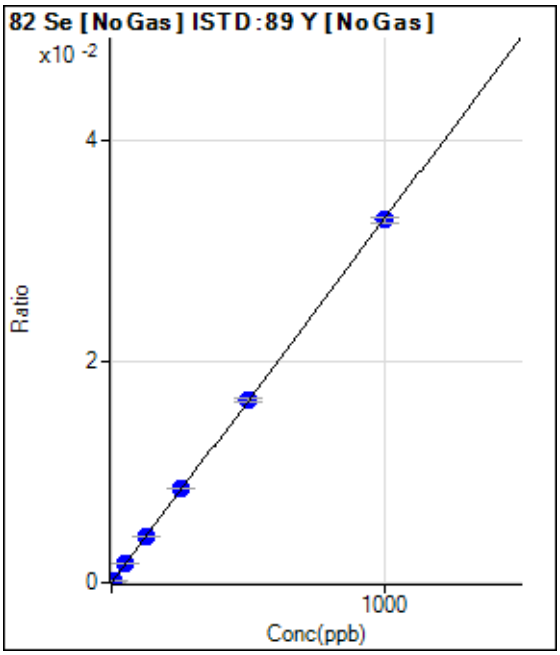


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			29175.95		P	1.1
2	☐			29034.52		P	0.9
3	☐			28925.43		P	0.8
4	☐			28388.85		P	1.2
5	☐			27872.31		P	2.9
6	☐			28198.46		P	2.3
7	☐			28542.47		P	2.3
8	☐			26138.87		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	419.
2	☐	5.000	5.589	2743.71	0.0002	P	4.3
3	☐	50.000	51.682	25130.99	0.0017	P	1.6
4	☐	125.000	127.509	61259.14	0.0042	P	0.6
5	☐	250.000	256.754	120807.64	0.0085	P	0.3
6	☐	500.000	501.406	233844.82	0.0165	P	1.9
7	☐	1000.000	997.208	452634.49	0.0329	P	1.3
8	☐			301.13	0.0000	P	12.3

y = 3.2943E-005 * x + 6.7858E-007
R = 1.0000
DL = 0.2591
BEC = 0.0206

Weight: <None>
Min Conc: 0

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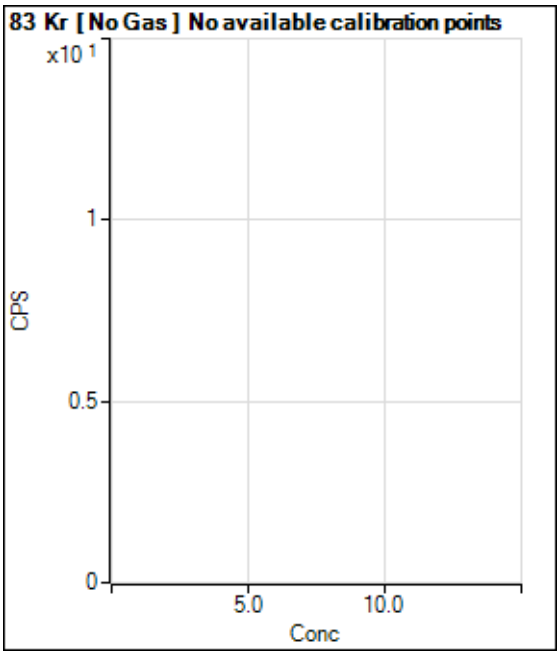
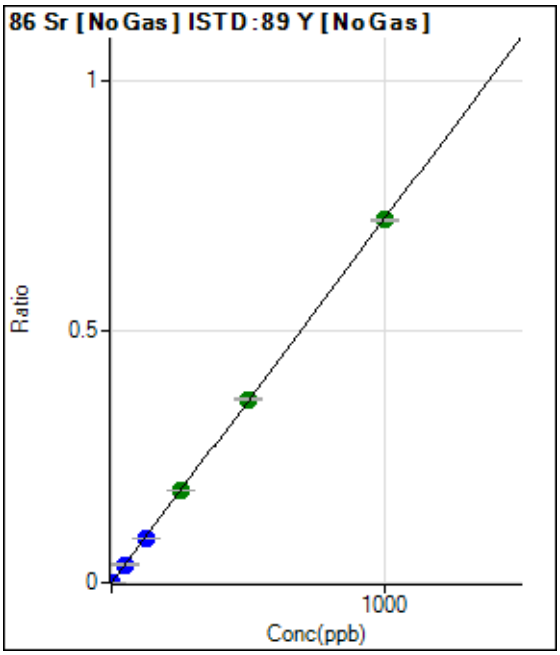


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			372.23		P	5.2
2	☐			384.45		P	14.9
3	☐			354.45		P	1.4
4	☐			373.34		P	2.4
5	☐			423.35		P	3.4
6	☐			391.12		P	13.7
7	☐			426.68		P	9.0
8	☐			473.34		P	8.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	691.14	0.0000	P	7.2
2	☐	1.000	1.059	12073.10	0.0008	P	1.9
3	☐	50.000	49.861	533125.10	0.0361	P	1.3
4	☐	125.000	122.549	1293941.99	0.0887	P	0.5
5	☐	250.000	253.143	2616704.94	0.1832	A	1.6
6	☐	500.000	504.412	5168479.37	0.3651	A	1.6
7	☐	1000.000	997.322	9945232.70	0.7218	A	0.3
8	☐			31322.91	0.0024	P	2.7

y = 7.2369E-004 * x + 4.7224E-005
R = 1.0000
DL = 0.01417
BEC = 0.06525

Weight: <None>
Min Conc: 0

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
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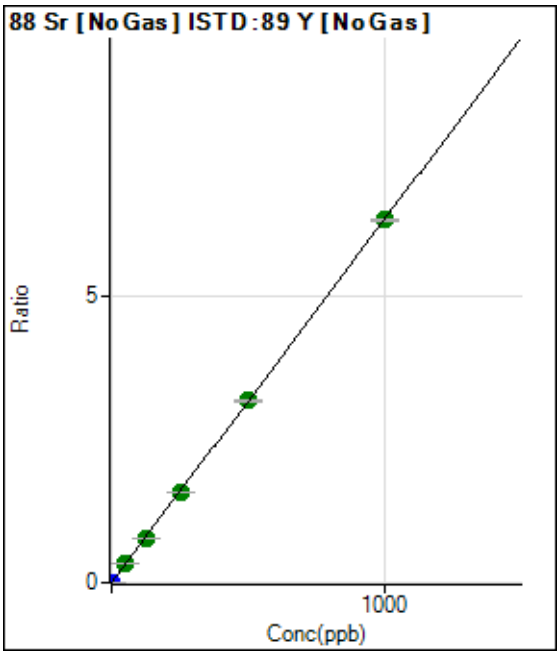
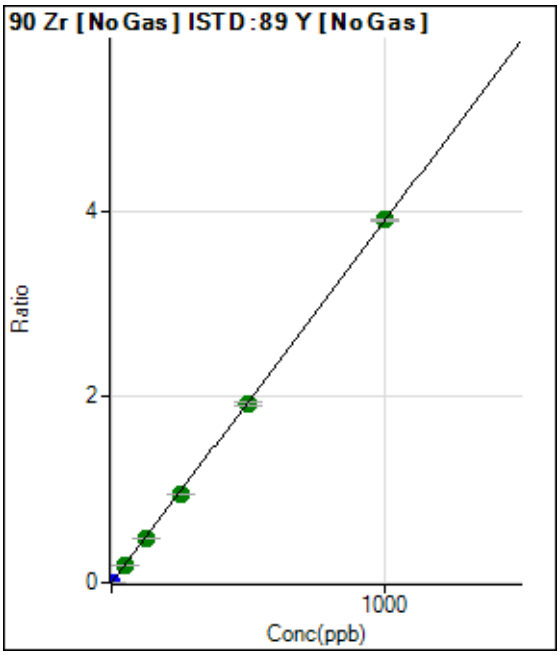


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	924.49	0.0001	P	4.2
2	☐	1.000	1.057	100466.94	0.0068	P	0.6
3	☐	50.000	50.719	4747571.63	0.3217	A	1.3
4	☐	125.000	123.963	11465358.16	0.7863	A	0.4
5	☐	250.000	249.030	22554944.11	1.5795	A	1.5
6	☐	500.000	502.739	45141376.55	3.1885	A	1.0
7	☐	1000.000	998.967	87296024.26	6.3357	A	0.6
8	☐			269227.12	0.0210	P	1.6

y = 0.0063 * x + 6.3185E-005
R = 1.0000
DL = 0.001246
BEC = 0.009963

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1016.72	0.0001	P	2.4
2	☐	1.000	1.042	61266.10	0.0041	P	1.7
3	☐	50.000	50.044	2878262.04	0.1951	A	0.7
4	☐	125.000	121.290	6892029.76	0.4726	A	1.1
5	☐	250.000	244.968	13632124.80	0.9545	A	0.1
6	☐	500.000	496.534	27388637.37	1.9347	A	1.9
7	☐	1000.000	1003.452	53870139.75	3.9097	A	0.3
8	☐			23643.46	0.0018	P	3.2

y = 0.0039 * x + 6.9490E-005
R = 1.0000
DL = 0.001309
BEC = 0.01784

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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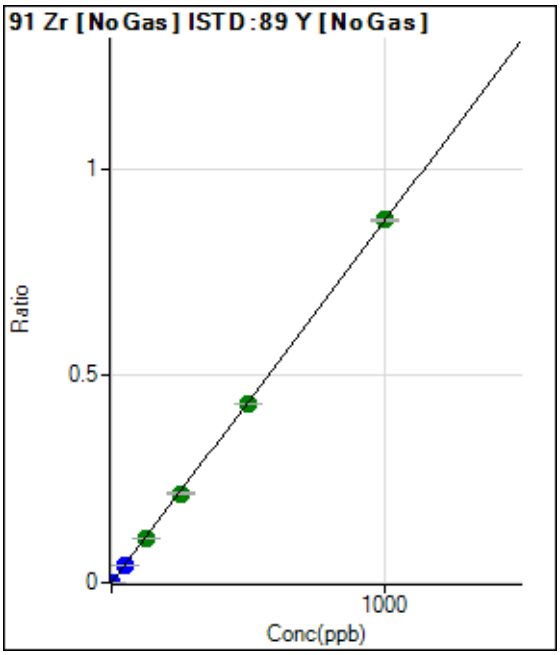
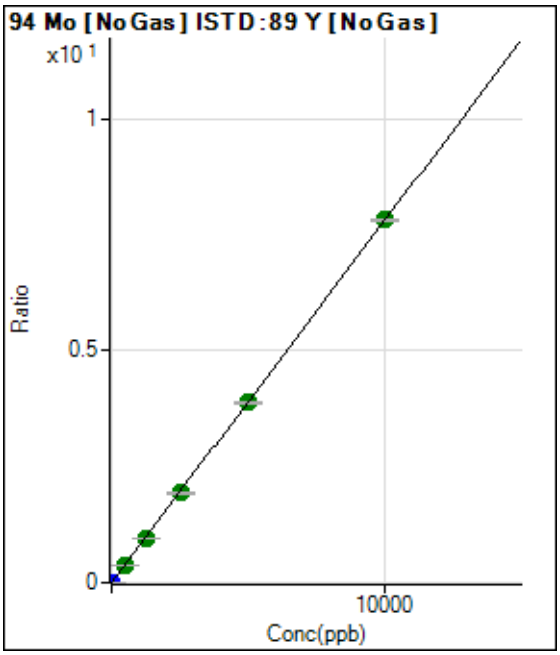
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	15.7
2	☐	1.000	1.034	13615.65	0.0009	P	1.5
3	☐	50.000	48.435	625085.00	0.0424	P	0.6
4	☐	125.000	123.189	1570590.77	0.1077	A	2.0
5	☐	250.000	247.120	3086120.06	0.2161	A	1.3
6	☐	500.000	494.941	6126628.10	0.4327	A	0.9
7	☐	1000.000	1003.554	12089571.76	0.8774	A	0.6
8	☐			5359.97	0.0004	P	4.2

y = 8.7432E-004 * x + 1.3434E-005
R = 1.0000
DL = 0.007227
BEC = 0.01537

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	507.80	0.0000	P	12.6
2	☐	5.000	6.176	72009.43	0.0049	P	0.9
3	☐	500.000	492.592	5668591.44	0.3842	A	1.0
4	☐	1250.000	1225.322	13932583.82	0.9555	A	1.3
5	☐	2500.000	2472.054	27531209.04	1.9277	A	1.1
6	☐	5000.000	4970.535	54873081.40	3.8760	A	1.4
7	☐	10000.000	10025.173	107714337.28	7.8176	A	0.4
8	☐			19830.87	0.0015	P	2.9

y = 7.7980E-004 * x + 3.4690E-005
R = 1.0000
DL = 0.01688
BEC = 0.04449

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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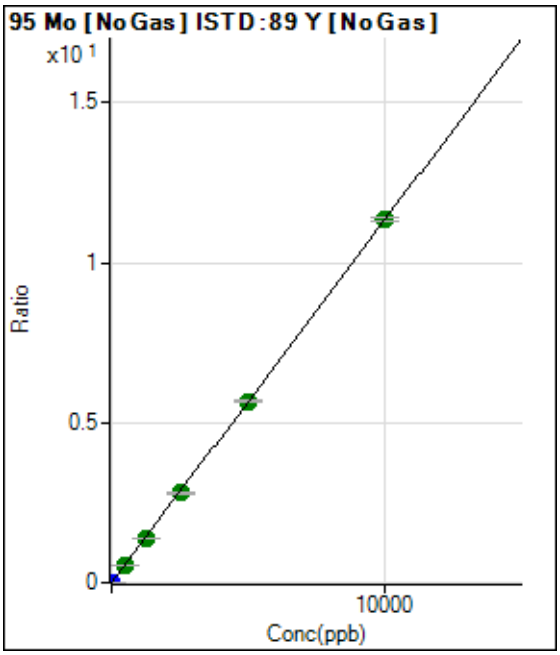
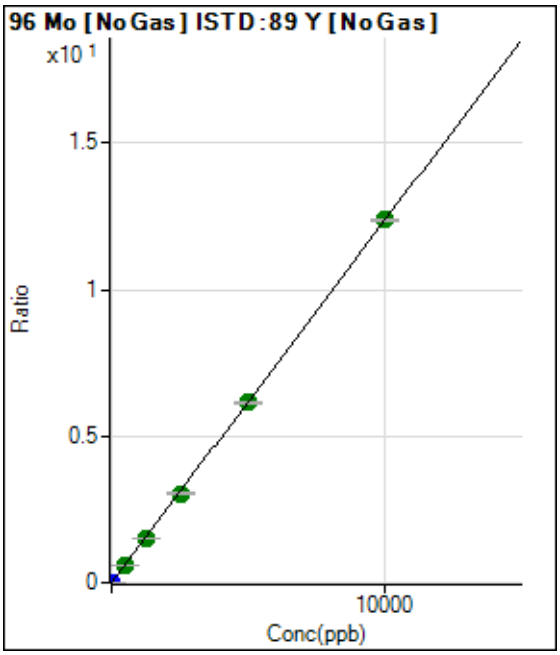
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0000	P	19.9
2	☐	5.000	5.104	86014.85	0.0058	P	1.2
3	☐	500.000	493.030	8238801.54	0.5584	A	1.0
4	☐	1250.000	1214.079	20046959.01	1.3749	A	1.8
5	☐	2500.000	2470.586	39958583.29	2.7979	A	1.6
6	☐	5000.000	4998.658	80141379.92	5.6608	A	1.4
7	☐	10000.000	10012.863	156234244.34	11.3392	A	1.2
8	☐			19689.57	0.0015	P	1.7

y = 0.0011 * x + 1.5273E-005
R = 1.0000
DL = 0.008053
BEC = 0.01349

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.34	0.0000	P	8.9
2	☐	5.000	5.208	95762.66	0.0065	P	0.2
3	☐	500.000	487.886	8888308.06	0.6024	A	2.6
4	☐	1250.000	1217.239	21915678.56	1.5030	A	1.1
5	☐	2500.000	2458.039	43347052.68	3.0351	A	1.9
6	☐	5000.000	4971.418	86907263.15	6.1385	A	1.1
7	☐	10000.000	10029.482	170631813.02	12.3841	A	0.6
8	☐			33393.52	0.0026	P	1.1

y = 0.0012 * x + 2.1409E-005
R = 1.0000
DL = 0.004619
BEC = 0.01734

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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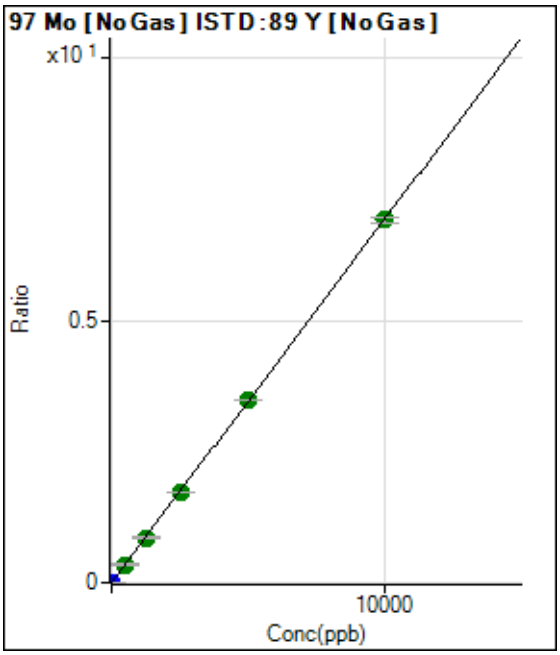
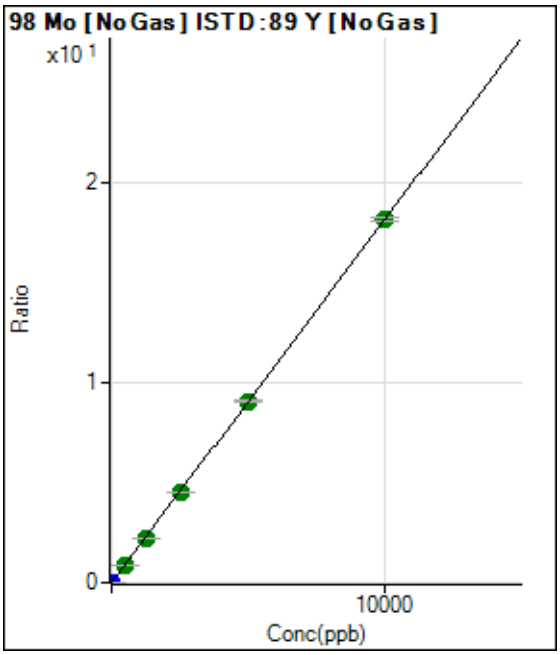


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0000	P	11.0
2	☐	5.000	5.252	54100.48	0.0036	P	1.0
3	☐	500.000	498.421	5091590.48	0.3451	A	2.2
4	☐	1250.000	1237.094	12488872.31	0.8565	A	1.4
5	☐	2500.000	2487.001	24592031.02	1.7219	A	1.2
6	☐	5000.000	5029.425	49298659.82	3.4822	A	0.9
7	☐	10000.000	9990.229	95303780.80	6.9169	A	1.4
8	☐			11438.14	0.0009	P	3.6

y = 6.9236E-004 * x + 8.5804E-006
R = 1.0000
DL = 0.004079
BEC = 0.01239

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331.12	0.0000	P	8.6
2	☐	5.000	5.148	138618.86	0.0093	P	0.1
3	☐	500.000	495.213	13224775.22	0.8963	A	1.0
4	☐	1250.000	1232.223	32517947.57	2.2301	A	0.8
5	☐	2500.000	2491.615	64405529.04	4.5094	A	1.4
6	☐	5000.000	5003.811	128202049.20	9.0559	A	1.8
7	☐	10000.000	10002.652	249428936.28	18.1028	A	0.9
8	☐			28864.51	0.0023	P	3.5

y = 0.0018 * x + 2.2634E-005
R = 1.0000
DL = 0.003209
BEC = 0.01251

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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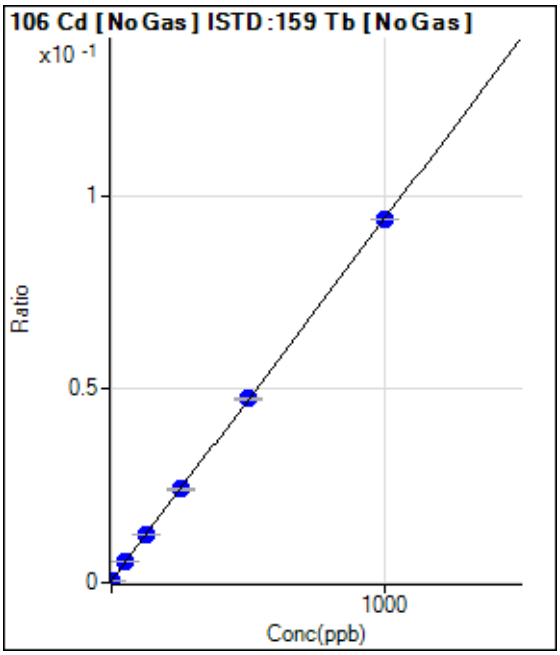
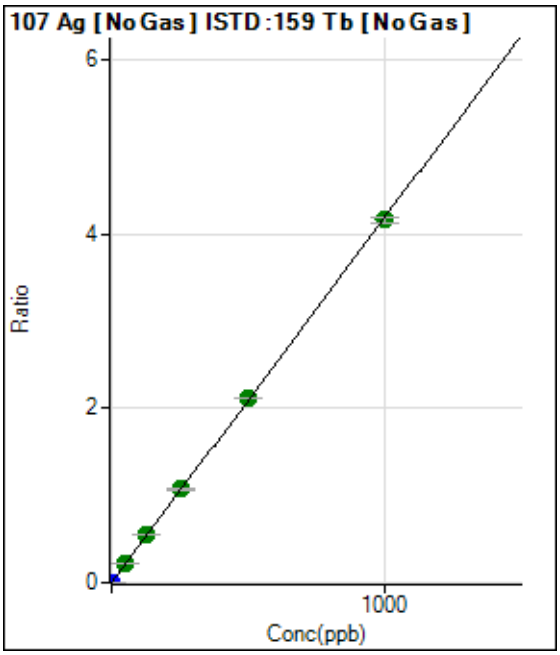


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5224.38	0.0006	P	3.6
2	☐	1.000	1.281	6335.95	0.0007	P	4.7
3	☐	50.000	53.475	52598.73	0.0055	P	2.2
4	☐	125.000	127.063	118761.99	0.0124	P	1.2
5	☐	250.000	253.851	225997.54	0.0243	P	1.6
6	☐	500.000	502.980	440207.91	0.0475	P	1.4
7	☐	1000.000	997.115	844228.34	0.0937	P	0.1
8	☐			4840.90	0.0006	P	3.6

y = 9.3363E-005 * x + 5.5687E-004
R = 1.0000
DL = 0.636
BEC = 5.965

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0000	P	30.2
2	☐	1.000	1.062	41742.90	0.0045	P	1.9
3	☐	50.000	54.703	2168756.44	0.2288	A	2.1
4	☐	125.000	130.982	5239133.70	0.5479	A	0.3
5	☐	250.000	256.364	9989959.51	1.0723	A	2.2
6	☐	500.000	506.031	19608273.18	2.1165	A	0.2
7	☐	1000.000	994.410	37492060.83	4.1592	A	1.4
8	☐			3304.88	0.0004	P	9.9

y = 0.0042 * x + 1.5054E-005
R = 0.9999
DL = 0.003256
BEC = 0.003599

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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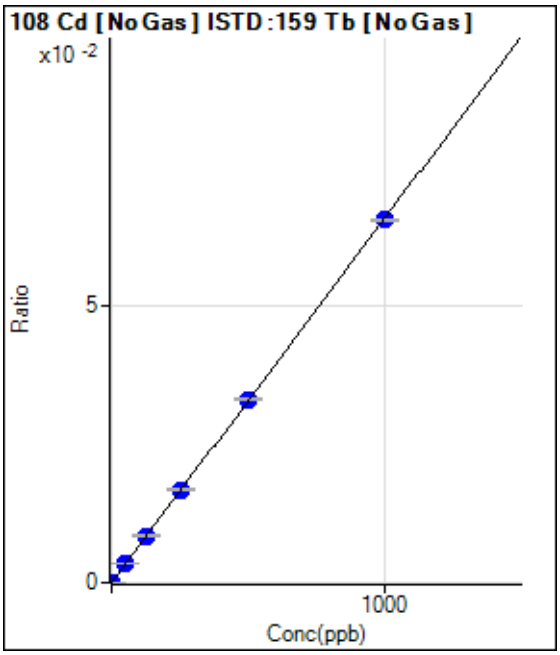
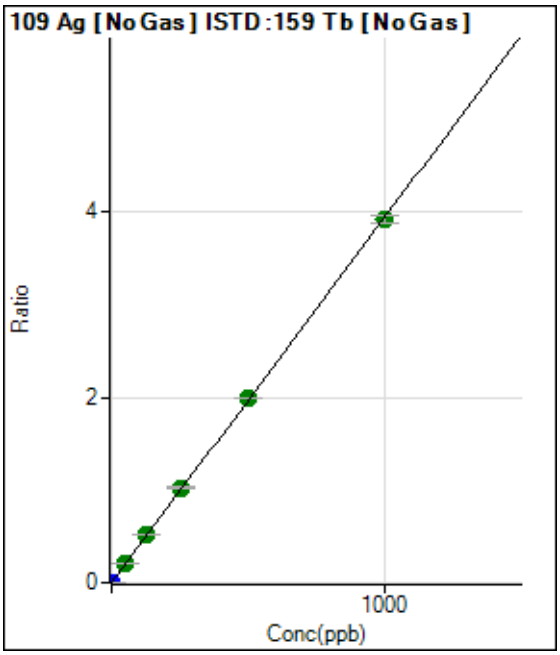


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	55.6
2	☐	1.000	1.128	706.69	0.0001	P	3.5
3	☐	50.000	52.808	32903.67	0.0035	P	0.8
4	☐	125.000	128.118	80498.82	0.0084	P	2.5
5	☐	250.000	254.440	155761.19	0.0167	P	2.5
6	☐	500.000	503.416	306439.50	0.0331	P	0.6
7	☐	1000.000	996.651	590304.40	0.0655	P	0.7
8	☐			227.78	0.0000	P	5.3

y = 6.5704E-005 * x + 1.2982E-006
R = 1.0000
DL = 0.03298
BEC = 0.01976

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0000	P	20.7
2	☐	1.000	1.069	39476.45	0.0042	P	0.6
3	☐	50.000	53.807	2007202.73	0.2118	A	0.3
4	☐	125.000	130.649	4916504.62	0.5142	A	1.1
5	☐	250.000	259.428	9512393.40	1.0210	A	1.0
6	☐	500.000	505.896	18444197.09	1.9909	A	0.4
7	☐	1000.000	993.799	35252570.59	3.9110	A	2.0
8	☐			3248.20	0.0004	P	7.7

y = 0.0039 * x + 5.2168E-006
R = 0.9999
DL = 0.000822
BEC = 0.001326

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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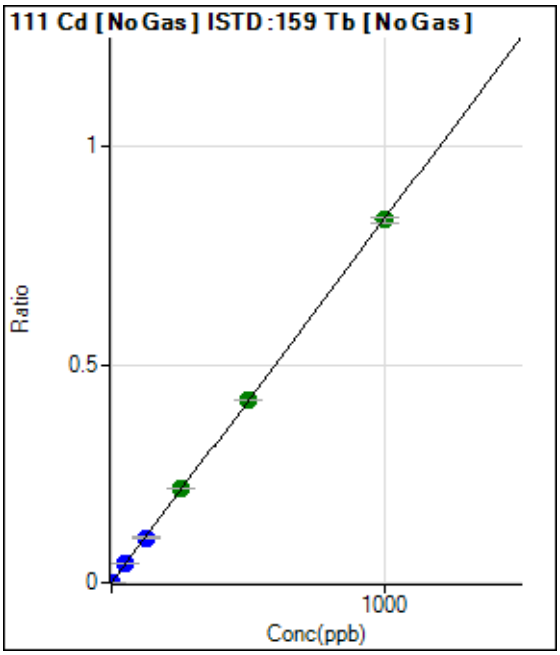
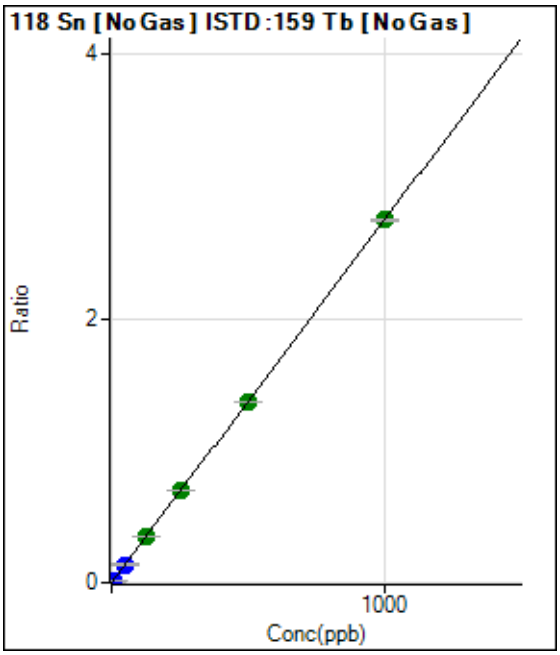


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3666.29	0.0004	P	3.7
2	☐	1.000	1.126	12448.74	0.0013	P	3.7
3	☐	50.000	50.834	405097.62	0.0427	P	2.6
4	☐	125.000	123.533	987916.85	0.1033	P	0.9
5	☐	250.000	258.543	2010577.20	0.2158	A	1.0
6	☐	500.000	501.464	3874086.44	0.4182	A	0.9
7	☐	1000.000	997.274	7492790.89	0.8312	A	1.6
8	☐			4278.12	0.0005	P	3.5

y = 8.3313E-004 * x + 3.9080E-004
R = 1.0000
DL = 0.05139
BEC = 0.4691

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4182.91	0.0004	P	5.6
2	☐	5.000	5.299	140573.88	0.0150	P	0.6
3	☐	50.000	50.191	1310837.49	0.1383	P	1.0
4	☐	125.000	124.858	3283613.53	0.3434	A	0.3
5	☐	250.000	252.926	6477119.07	0.6951	A	0.3
6	☐	500.000	498.474	12687457.45	1.3695	A	0.5
7	☐	1000.000	1000.038	24762946.85	2.7471	A	0.7
8	☐			7313.14	0.0009	P	2.6

y = 0.0027 * x + 4.4598E-004
R = 1.0000
DL = 0.02704
BEC = 0.1624

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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Inst Id :P8
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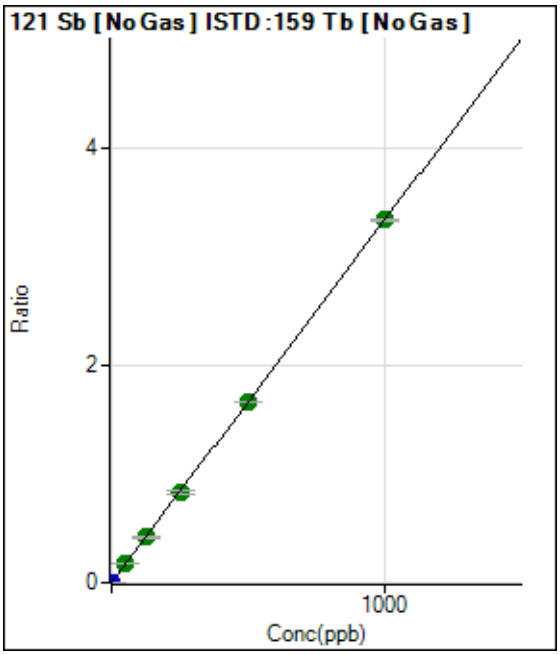
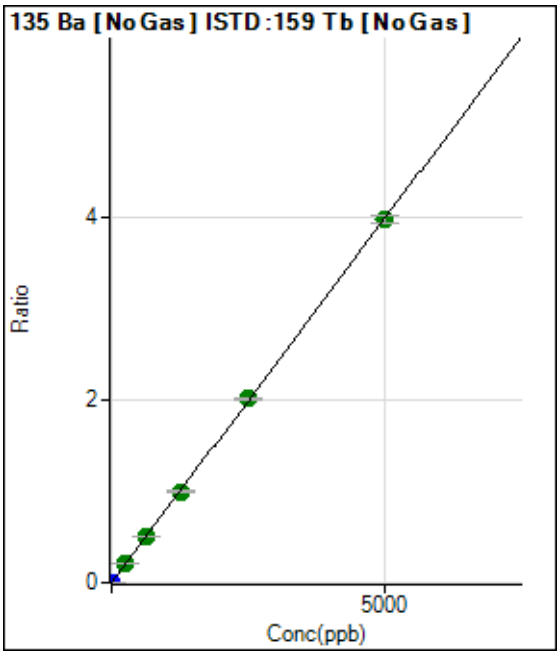


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	39.2
2	☐	2.000	2.104	65992.66	0.0070	P	2.0
3	☐	50.000	51.008	1615908.53	0.1705	A	1.7
4	☐	125.000	124.797	3988824.25	0.4171	A	0.4
5	☐	250.000	249.516	7768539.67	0.8340	A	2.6
6	☐	500.000	498.139	15424214.35	1.6649	A	0.7
7	☐	1000.000	1001.026	30159837.05	3.3457	A	0.4
8	☐			15538.95	0.0019	P	5.1

y = 0.0033 * x + 1.0672E-005
R = 1.0000
DL = 0.00375
BEC = 0.003193

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.33	0.0000	P	28.4
2	☐	10.000	10.605	79309.10	0.0085	P	1.5
3	☐	250.000	255.525	1929419.21	0.2036	A	1.4
4	☐	625.000	628.319	4786364.76	0.5005	A	0.7
5	☐	1250.000	1251.959	9289138.13	0.9973	A	3.5
6	☐	2500.000	2525.866	18640918.89	2.0121	A	0.8
7	☐	5000.000	4985.885	35801691.13	3.9718	A	2.2
8	☐			13415.63	0.0016	P	0.2

y = 7.9660E-004 * x + 1.6331E-005
R = 1.0000
DL = 0.01745
BEC = 0.0205

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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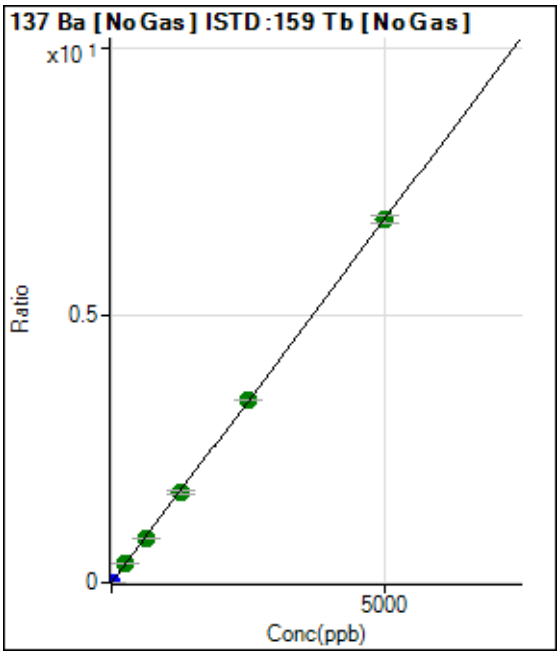
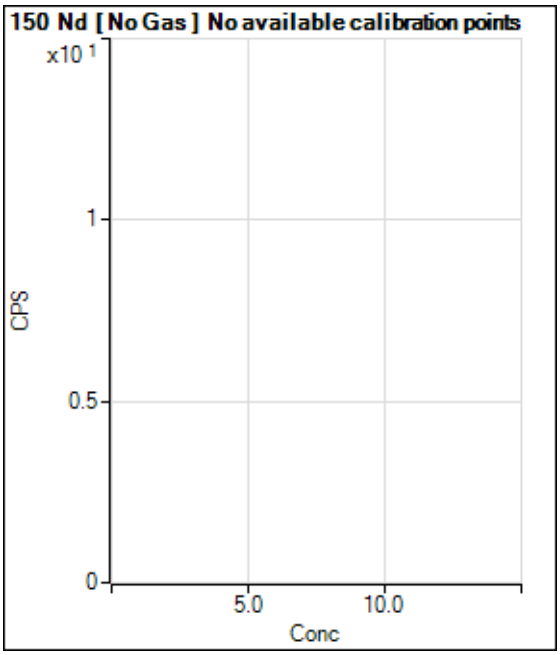
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296.67	0.0000	P	1.9
2	☐	10.000	10.643	135832.83	0.0145	P	2.2
3	☐	250.000	256.089	3299159.91	0.3481	A	1.9
4	☐	625.000	617.089	8020534.60	0.8387	A	0.6
5	☐	1250.000	1246.685	15783256.43	1.6944	A	2.9
6	☐	2500.000	2515.412	31673059.53	3.4188	A	0.6
7	☐	5000.000	4993.806	61181455.20	6.7873	A	2.0
8	☐			23349.11	0.0028	P	0.9

y = 0.0014 * x + 3.1623E-005
R = 1.0000
DL = 0.001315
BEC = 0.02327

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.00		P	33.3
2	☐			17.78		P	28.6
3	☐			140.00		P	20.3
4	☐			298.90		P	9.6
5	☐			603.35		P	5.4
6	☐			1102.28		P	4.6
7	☐			2186.87		P	2.6
8	☐			567.80		P	7.4

Reviewed By:mohan
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Inst Id :P8
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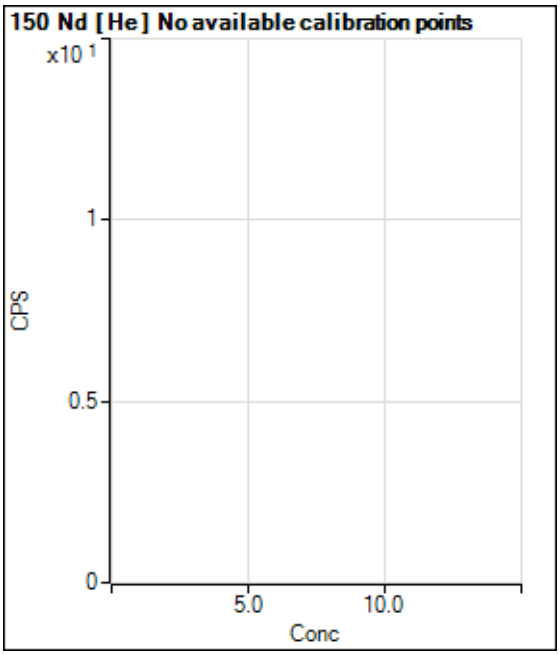
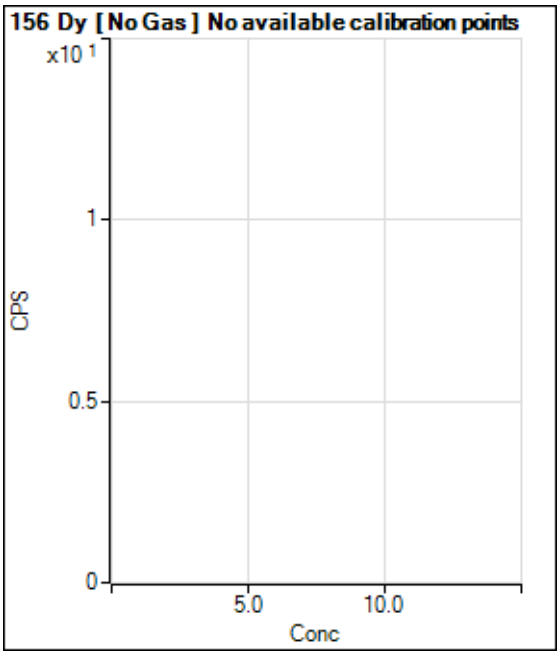


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			8.89		P	142.
4	☐			13.33		P	66.2
5	☐			18.89		P	36.7
6	☐			61.11		P	12.6
7	☐			106.67		P	6.3
8	☐			156.67		P	16.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21.11		P	24.1
2	☐			18.89		P	44.4
3	☐			40.00		P	46.4
4	☐			92.22		P	21.8
5	☐			166.67		P	5.3
6	☐			353.34		P	7.1
7	☐			630.02		P	5.1
8	☐			991.16		P	10.0

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
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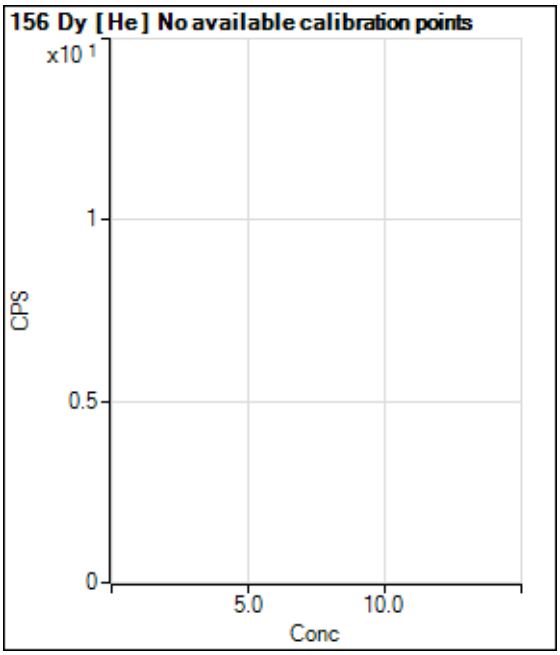

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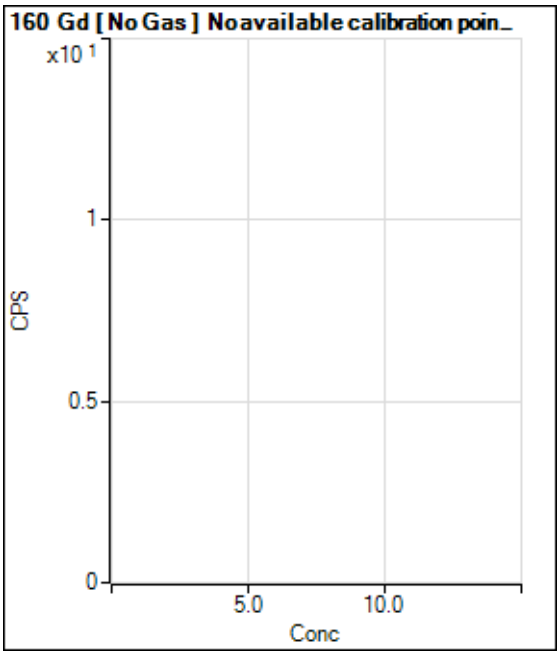
1	☐			0.00		P	
2	☐			7.78		P	65.5
3	☐			10.00		P	88.2
4	☐			12.22		P	41.7
5	☐			25.56		P	7.5
6	☐			57.78		P	29.6
7	☐			105.56		P	14.2
8	☐			327.79		P	7.7



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2	☐			70.00		P	4.8
3	☐			91.11		P	20.2
4	☐			117.78		P	22.9
5	☐			115.56		P	4.4
6	☐			166.67		P	6.0
7	☐			342.23		P	13.3
8	☐			854.48		P	9.9

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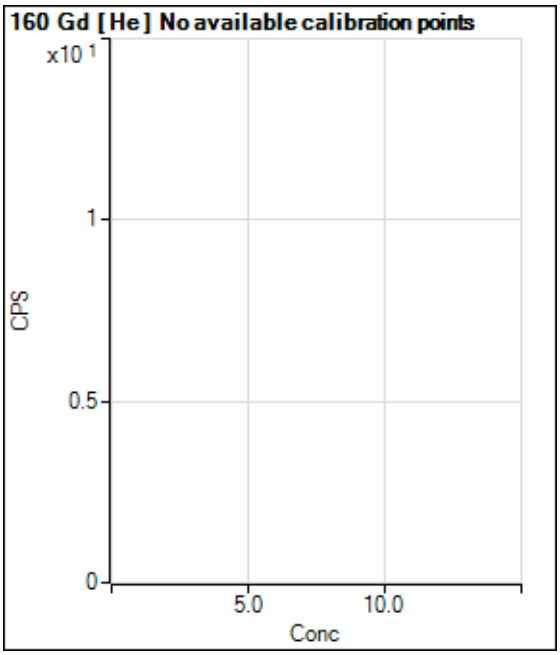

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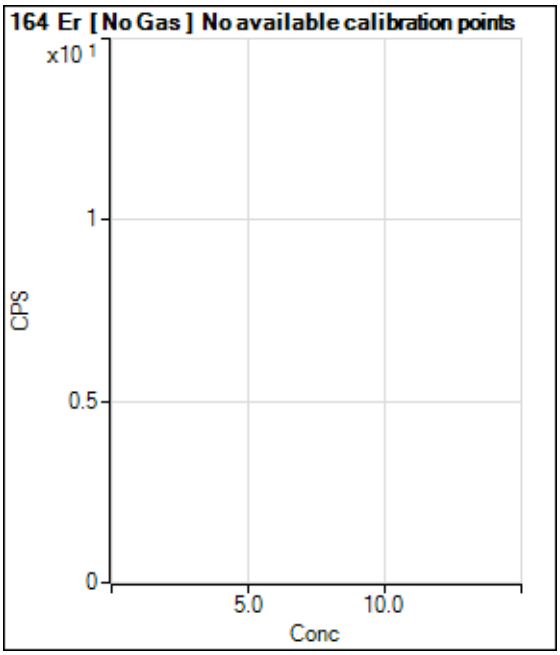
1	☐			16.67		P	72.1
2	☐			26.67		P	12.5
3	☐			22.22		P	31.2
4	☐			28.89		P	58.1
5	☐			45.55		P	23.5
6	☐			62.22		P	8.2
7	☐			110.00		P	38.7
8	☐			372.23		P	8.1



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1	☐			65.56		P	30.6
2	☐			55.56		P	25.0
3	☐			60.00		P	19.2
4	☐			112.22		P	14.9
5	☐			137.78		P	17.2
6	☐			240.01		P	2.8
7	☐			335.56		P	11.9
8	☐			1120.06		P	7.7

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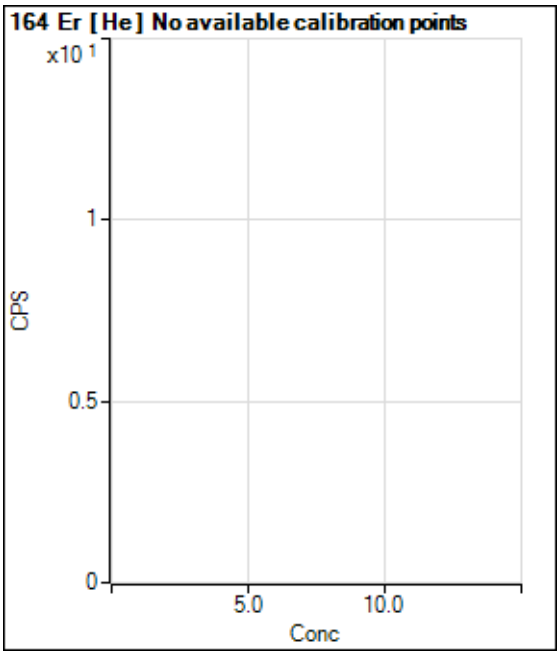

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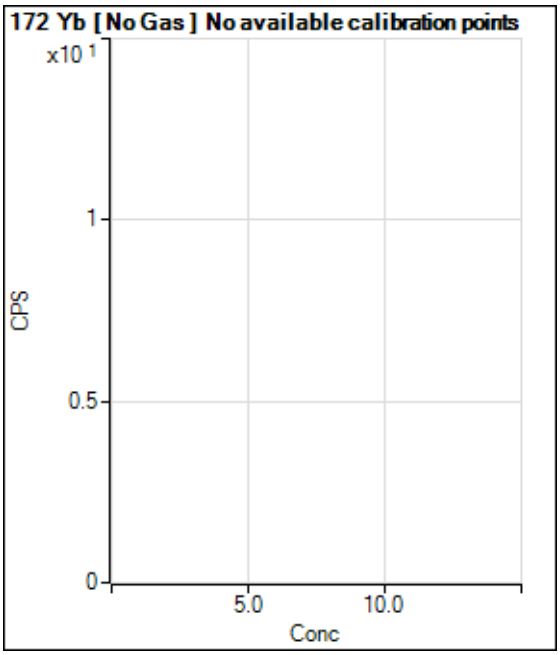
1	☐			13.33		P	25.0
2	☐			23.33		P	62.3
3	☐			36.67		P	9.1
4	☐			33.33		P	26.5
5	☐			60.00		P	16.7
6	☐			88.89		P	21.3
7	☐			131.12		P	10.3
8	☐			418.90		P	11.6



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1	☐			53.34		P	43.3
2	☐			64.44		P	23.3
3	☐			77.78		P	6.5
4	☐			115.56		P	15.9
5	☐			170.01		P	30.2
6	☐			241.12		P	7.6
7	☐			457.79		P	6.1
8	☐			1759.02		P	6.5

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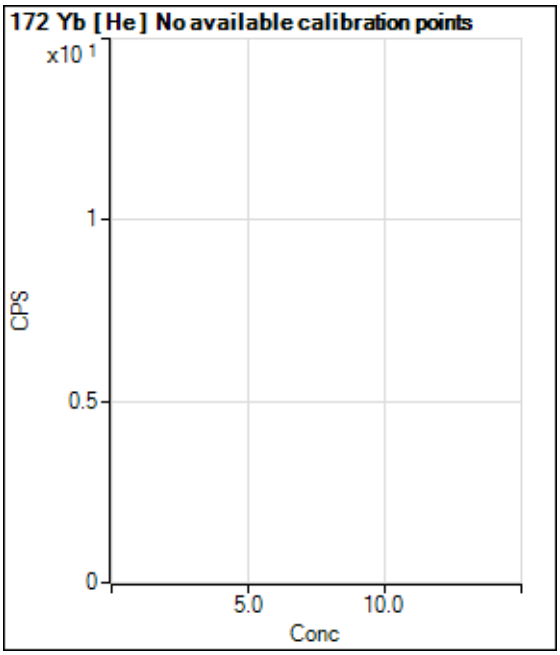

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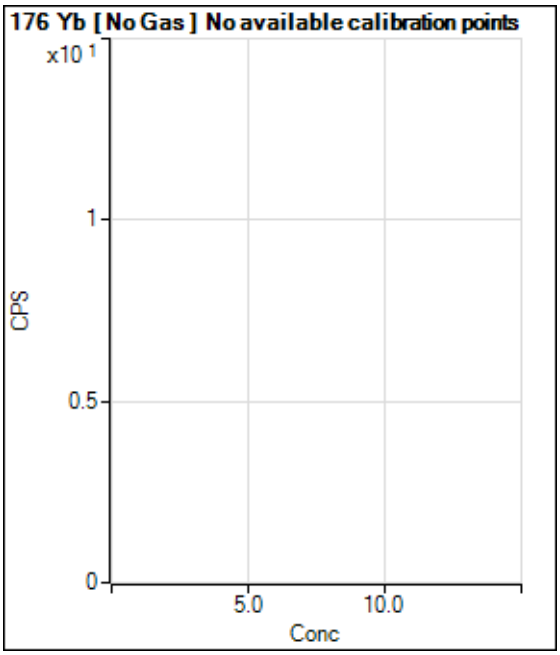
1	☐			24.44		P	39.4
2	☐			24.44		P	39.4
3	☐			32.22		P	33.3
4	☐			38.89		P	19.8
5	☐			63.33		P	9.1
6	☐			132.23		P	11.4
7	☐			164.45		P	17.7
8	☐			816.70		P	10.3



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1	☐			1191.18		P	3.2
2	☐			1278.97		P	5.5
3	☐			7404.38		P	2.3
4	☐			16788.57		P	1.5
5	☐			31740.40		P	1.4
6	☐			62424.35		P	0.5
7	☐			120643.04		P	1.4
8	☐			2221.32		P	5.2

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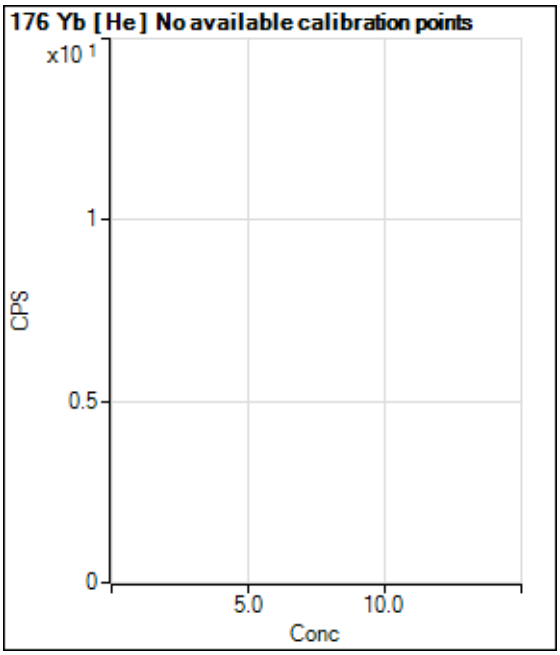
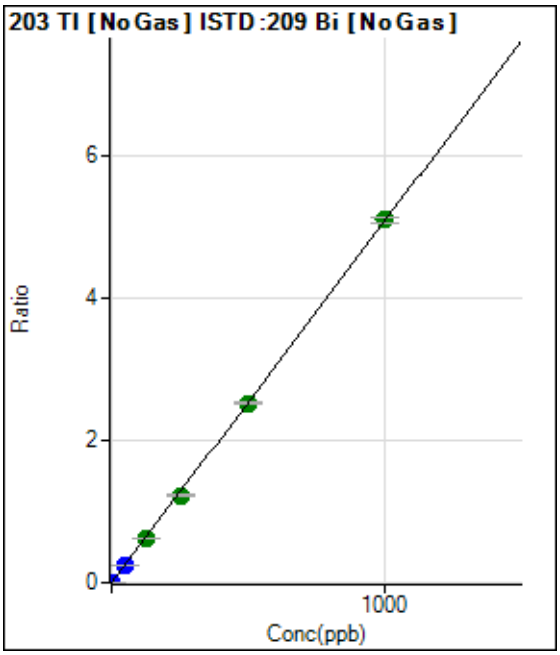


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			377.79		P	1.3
2	☐			352.23		P	5.2
3	☐			2762.54		P	5.8
4	☐			6264.88		P	0.8
5	☐			12325.85		P	2.3
6	☐			24263.41		P	1.1
7	☐			47380.21		P	1.7
8	☐			803.37		P	8.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	22.3
2	☐	1.000	0.999	27446.80	0.0051	P	3.5
3	☐	50.000	47.605	1299488.03	0.2414	P	0.6
4	☐	125.000	122.163	3336307.80	0.6193	A	1.4
5	☐	250.000	242.053	6556408.52	1.2271	A	2.2
6	☐	500.000	496.165	12727417.17	2.5153	A	1.2
7	☐	1000.000	1004.379	24775372.13	5.0917	A	1.8
8	☐			1774.58	0.0004	P	9.5

y = 0.0051 * x + 2.3460E-005
R = 1.0000
DL = 0.003096
BEC = 0.004628

Weight: <None>
Min Conc: 0

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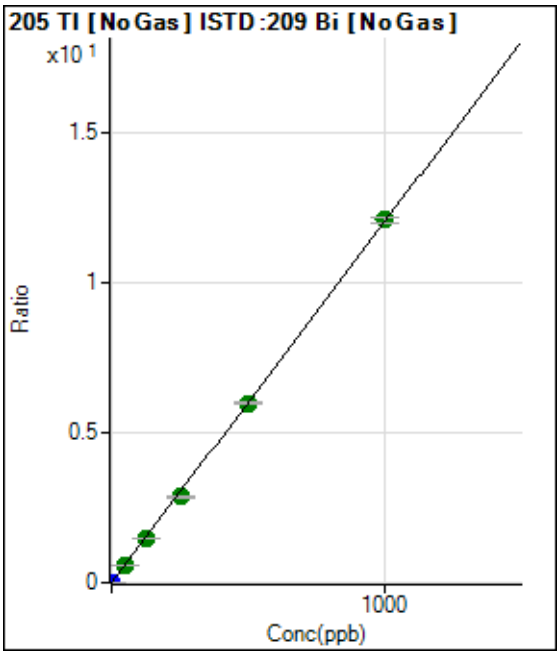
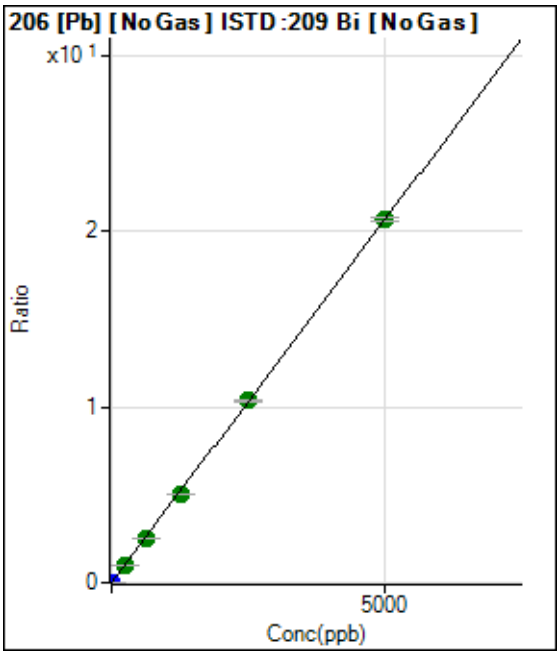


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.67	0.0001	P	3.8
2	☐	1.000	0.992	64811.84	0.0120	P	0.3
3	☐	50.000	48.868	3171157.77	0.5890	A	1.3
4	☐	125.000	120.450	7821316.20	1.4518	A	0.3
5	☐	250.000	238.665	15370466.44	2.8766	A	1.4
6	☐	500.000	496.137	30258605.38	5.9798	A	0.9
7	☐	1000.000	1005.391	58963112.45	12.1177	A	1.5
8	☐			4225.19	0.0010	P	11.8

y = 0.0121 * x + 6.0443E-005
R = 0.9999
DL = 0.0005714
BEC = 0.005015

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1995.73	0.0004	P	3.9
2	☐	1.000	0.953	23225.29	0.0043	P	1.5
3	☐	250.000	248.059	5517740.41	1.0249	A	1.4
4	☐	625.000	607.724	13522634.38	2.5103	A	1.8
5	☐	1250.000	1224.677	27028022.37	5.0583	A	0.9
6	☐	2500.000	2507.779	52412914.22	10.3576	A	0.6
7	☐	5000.000	5004.698	100578134.06	20.6700	A	1.2
8	☐			102794.52	0.0244	P	0.7

y = 0.0041 * x + 3.6929E-004
R = 1.0000
DL = 0.01058
BEC = 0.08942

Weight: <None>
Min Conc: 0

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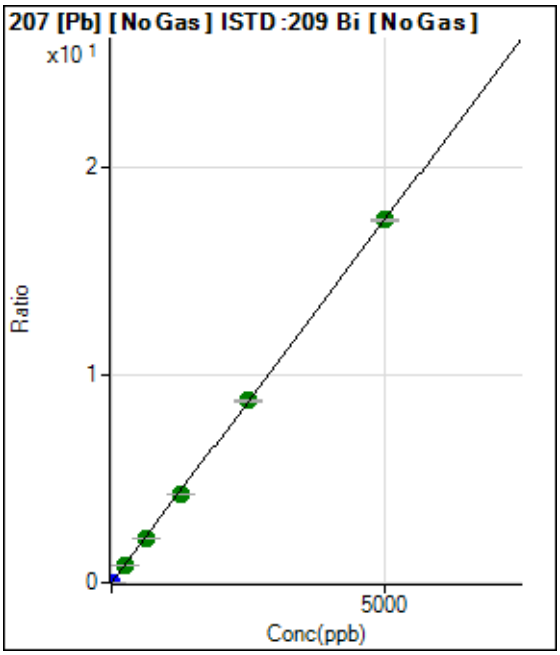
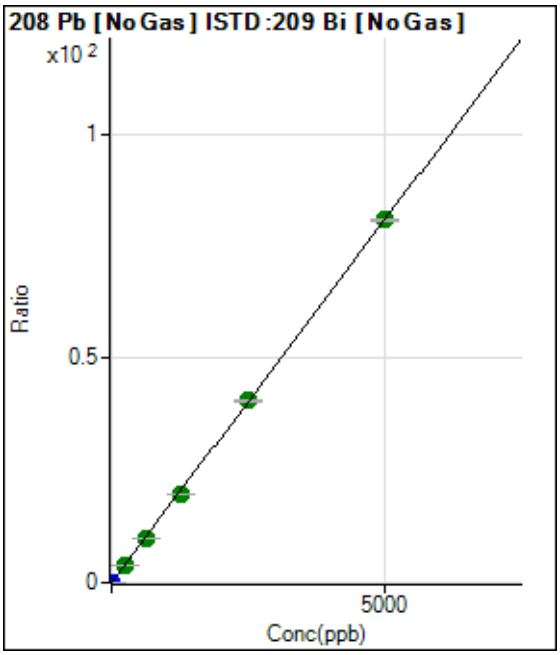


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1747.91	0.0003	P	4.7
2	☐	1.000	0.973	20104.55	0.0037	P	1.7
3	☐	250.000	249.549	4700770.31	0.8731	A	0.7
4	☐	625.000	606.507	11428597.19	2.1215	A	0.9
5	☐	1250.000	1219.727	22795311.88	4.2662	A	0.8
6	☐	2500.000	2513.957	44493293.23	8.7926	A	0.7
7	☐	5000.000	5002.924	85141751.51	17.4975	A	0.9
8	☐			88253.32	0.0210	P	1.3

y = 0.0035 * x + 3.2336E-004
R = 1.0000
DL = 0.01293
BEC = 0.09246

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7844.34	0.0015	P	3.2
2	☐	1.000	0.966	92004.19	0.0171	P	0.8
3	☐	250.000	247.836	21550315.41	4.0026	A	0.6
4	☐	625.000	607.734	52864019.77	9.8130	A	0.8
5	☐	1250.000	1221.696	105395722.87	19.7251	A	0.5
6	☐	2500.000	2509.318	205011141.39	40.5131	A	0.4
7	☐	5000.000	5004.684	393165093.58	80.7995	A	0.7
8	☐			405265.29	0.0963	P	0.9

y = 0.0161 * x + 0.0015
R = 1.0000
DL = 0.008713
BEC = 0.08989

Weight: <None>
Min Conc: 0

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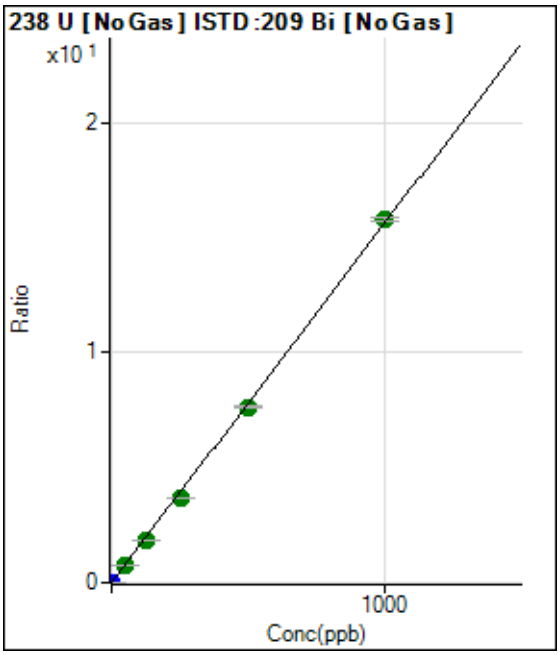

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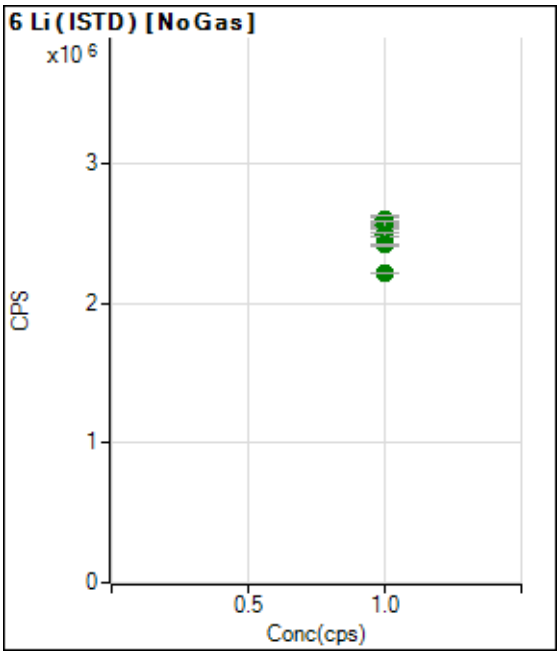
1	☐	0.000	0.000	142.23	0.0000	P	8.4
2	☐	1.000	0.984	83003.41	0.0154	P	0.5
3	☐	50.000	47.977	4030328.03	0.7487	A	1.7
4	☐	125.000	117.622	9887507.77	1.8354	A	0.9
5	☐	250.000	235.147	19605081.38	3.6693	A	1.1
6	☐	500.000	489.499	38652875.54	7.6383	A	0.3
7	☐	1000.000	1009.987	76688323.86	15.7602	A	1.2
8	☐			2923.70	0.0007	P	8.8

y = 0.0156 * x + 2.6308E-005
R = 0.9998
DL = 0.0004239
BEC = 0.001686

Weight: <None>
Min Conc: 0



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1	☐	1.000		2569599.95		A	1.3
2	☐	1.000		2574653.22		A	1.1
3	☐	1.000		2601762.78		A	1.3
4	☐	1.000		2599255.28		A	2.2
5	☐	1.000		2562748.62		A	1.9
6	☐	1.000		2492872.30		A	1.3
7	☐	1.000		2421389.23		A	0.5
8	☐	1.000		2220197.48		A	0.6

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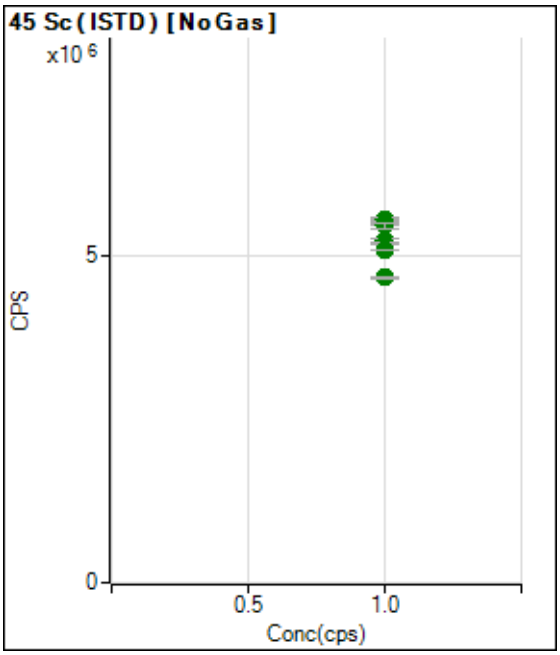

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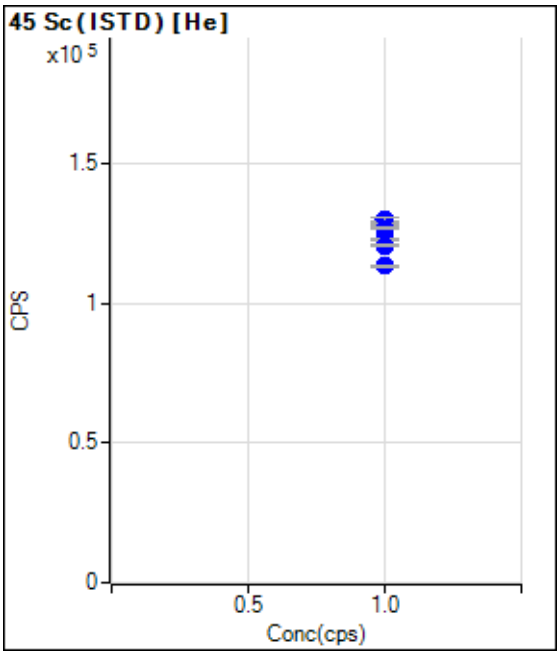
1	☐	1.000		5502776.24		A	1.3
2	☐	1.000		5535678.25		A	0.9
3	☐	1.000		5491234.92		A	0.9
4	☐	1.000		5446417.56		A	1.5
5	☐	1.000		5228308.71		A	1.5
6	☐	1.000		5174817.84		A	0.8
7	☐	1.000		5079161.87		A	0.2
8	☐	1.000		4661114.66		A	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		129185.74		P	1.0
2	☐	1.000		130093.73		P	1.3
3	☐	1.000		127034.12		P	0.3
4	☐	1.000		122793.29		P	0.6
5	☐	1.000		123139.81		P	0.8
6	☐	1.000		120831.55		P	0.6
7	☐	1.000		120880.42		P	0.3
8	☐	1.000		113556.13		P	0.6

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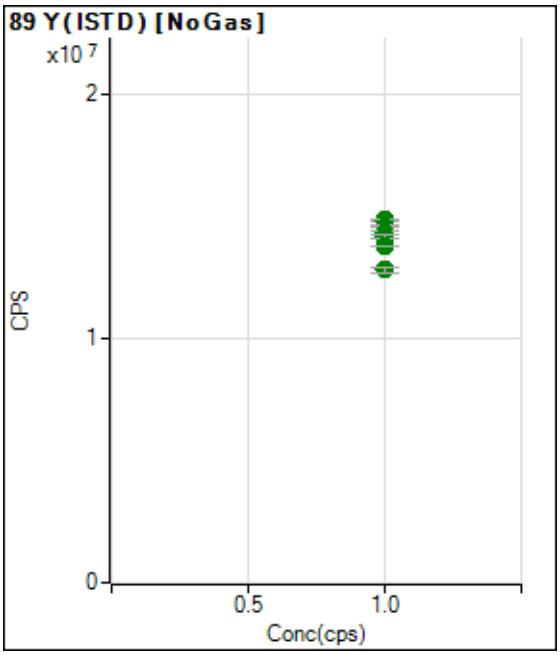

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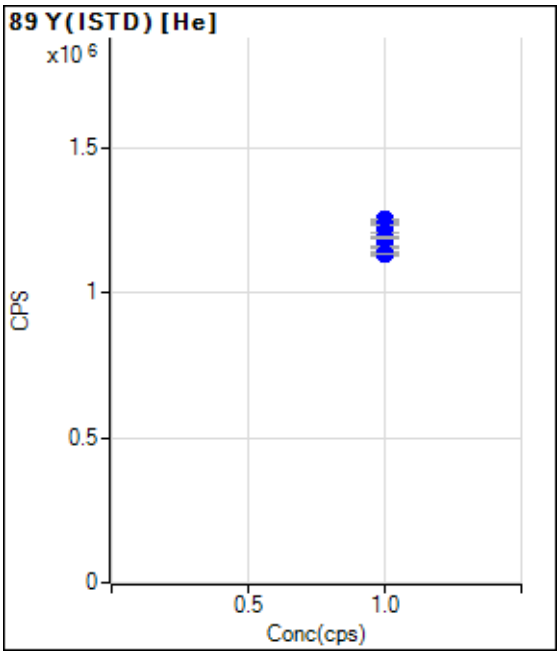
1	☐	1.000		14632285.20		A	0.5
2	☐	1.000		14843404.50		A	0.7
3	☐	1.000		14756619.22		A	1.2
4	☐	1.000		14581951.86		A	0.8
5	☐	1.000		14281585.62		A	1.1
6	☐	1.000		14157915.07		A	0.7
7	☐	1.000		13778388.96		A	0.2
8	☐	1.000		12800301.34		A	1.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1239446.64		P	0.1
2	☐	1.000		1250972.51		P	0.2
3	☐	1.000		1231401.03		P	0.2
4	☐	1.000		1207158.39		P	0.4
5	☐	1.000		1189417.46		P	0.5
6	☐	1.000		1156170.33		P	0.6
7	☐	1.000		1134483.24		P	0.8
8	☐	1.000		1133159.27		P	0.3

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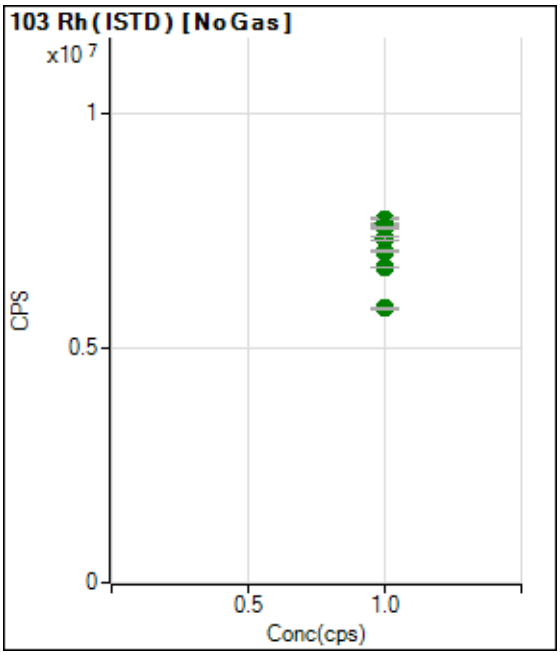

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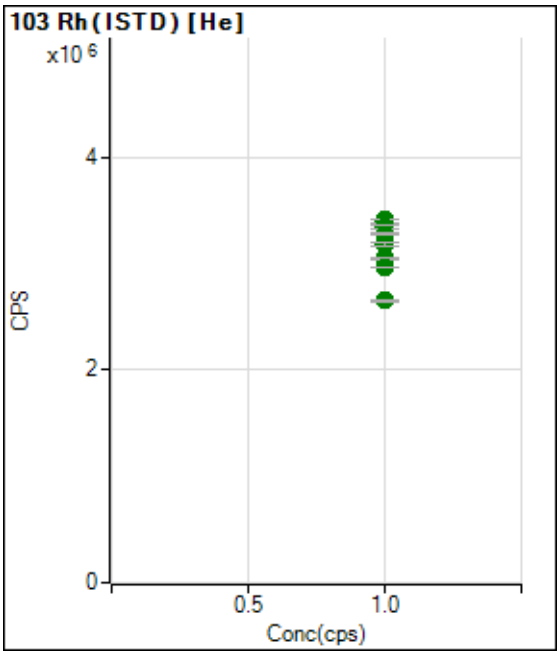
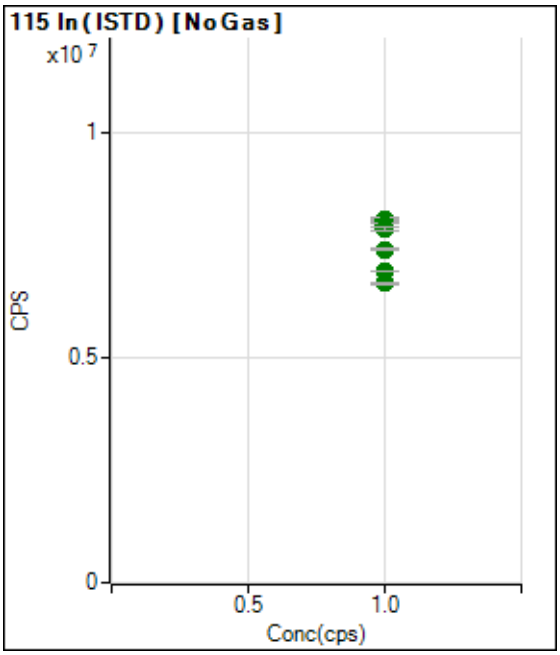
1	☐	1.000		7592412.11		A	0.3
2	☐	1.000		7716869.40		A	1.3
3	☐	1.000		7665966.07		A	1.3
4	☐	1.000		7556234.61		A	0.8
5	☐	1.000		7332797.81		A	1.1
6	☐	1.000		7047485.87		A	0.6
7	☐	1.000		6709393.72		A	0.5
8	☐	1.000		5835725.40		A	0.8

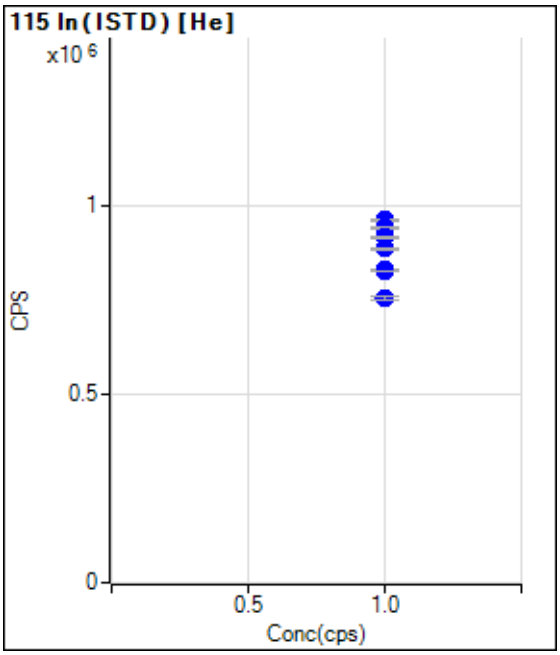


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3397463.66		A	0.7
2	☐	1.000		3411944.25		A	0.1
3	☐	1.000		3350573.63		A	0.9
4	☐	1.000		3276501.72		A	0.5
5	☐	1.000		3182219.99		A	1.1
6	☐	1.000		3051444.81		A	0.3
7	☐	1.000		2961357.94		A	0.2
8	☐	1.000		2652940.95		A	0.9

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

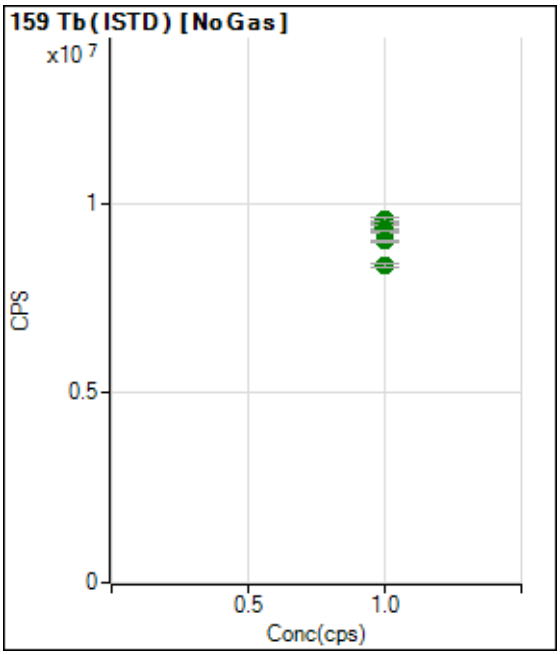


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8051103.49		A	0.7
2	☐	1.000		8058395.65		A	1.5
3	☐	1.000		8038321.12		A	1.7
4	☐	1.000		7938605.70		A	1.4
5	☐	1.000		7864901.93		A	1.2
6	☐	1.000		7404222.16		A	0.4
7	☐	1.000		6923652.33		A	0.3
8	☐	1.000		6645388.68		A	0.3

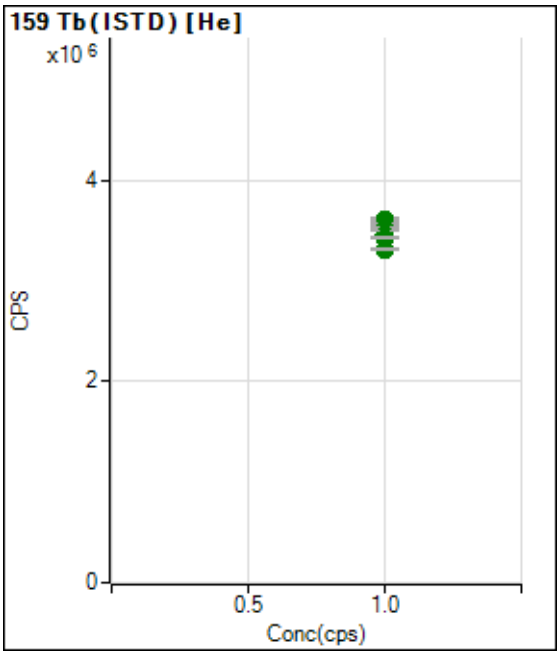


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		956948.65		P	0.2
2	☐	1.000		961079.09		P	0.4
3	☐	1.000		941564.95		P	0.4
4	☐	1.000		916173.13		P	0.4
5	☐	1.000		884504.66		P	0.3
6	☐	1.000		829711.63		P	0.3
7	☐	1.000		755922.98		P	1.3
8	☐	1.000		824579.04		P	0.5

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

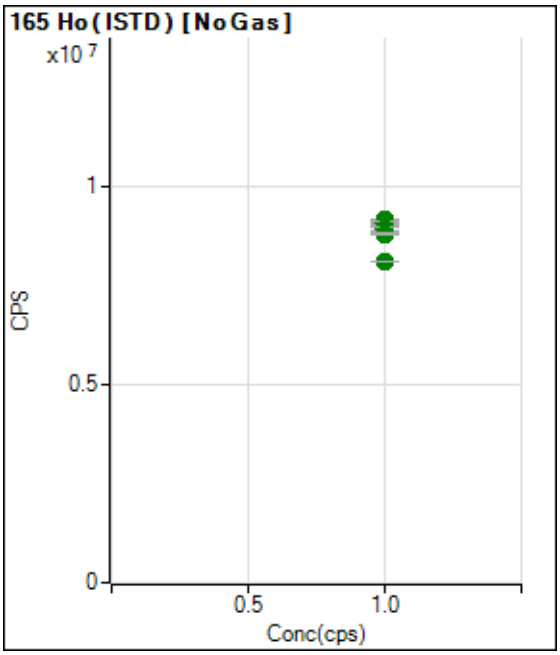


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9382783.82		A	1.2
2	☐	1.000		9371862.15		A	1.9
3	☐	1.000		9478994.72		A	1.2
4	☐	1.000		9563038.75		A	1.1
5	☐	1.000		9318558.75		A	2.1
6	☐	1.000		9264282.22		A	0.4
7	☐	1.000		9014580.01		A	0.7
8	☐	1.000		8353101.61		A	1.0

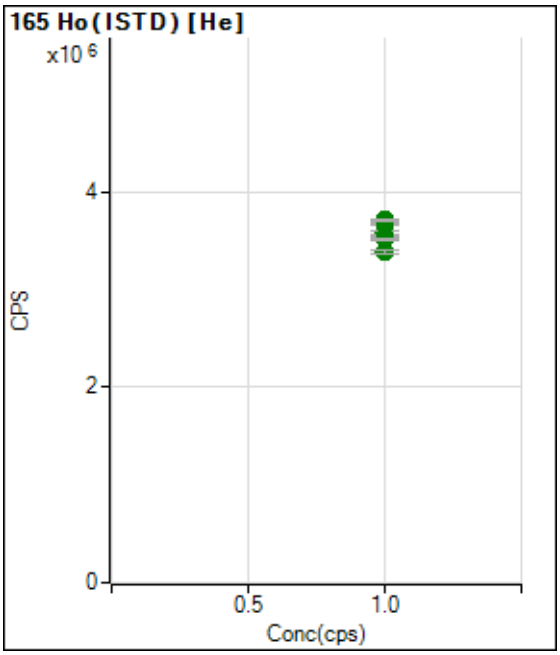


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3608416.09		A	0.7
2	☐	1.000		3602527.83		A	2.3
3	☐	1.000		3605532.83		A	1.0
4	☐	1.000		3567721.79		A	0.7
5	☐	1.000		3527830.47		A	0.6
6	☐	1.000		3470888.84		A	2.2
7	☐	1.000		3428789.39		A	0.4
8	☐	1.000		3318087.55		A	0.5

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

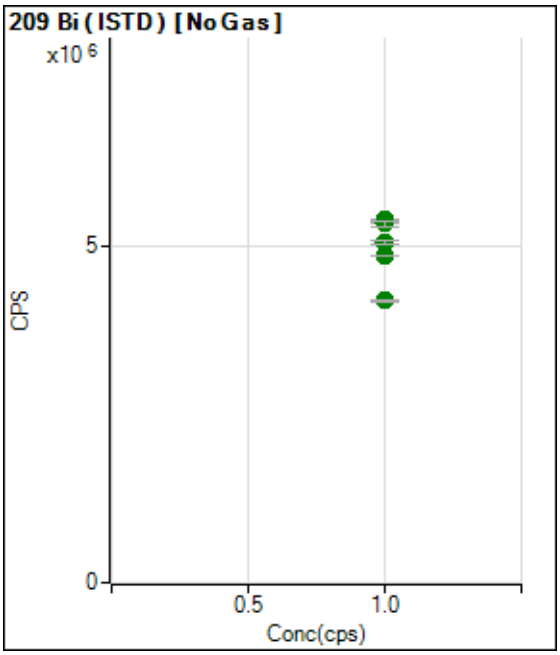


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8998016.47		A	0.6
2	☐	1.000		9018323.27		A	0.8
3	☐	1.000		9118504.10		A	1.0
4	☐	1.000		9148300.00		A	0.5
5	☐	1.000		9074027.71		A	0.7
6	☐	1.000		8923242.16		A	1.4
7	☐	1.000		8790210.29		A	0.6
8	☐	1.000		8100404.67		A	0.5

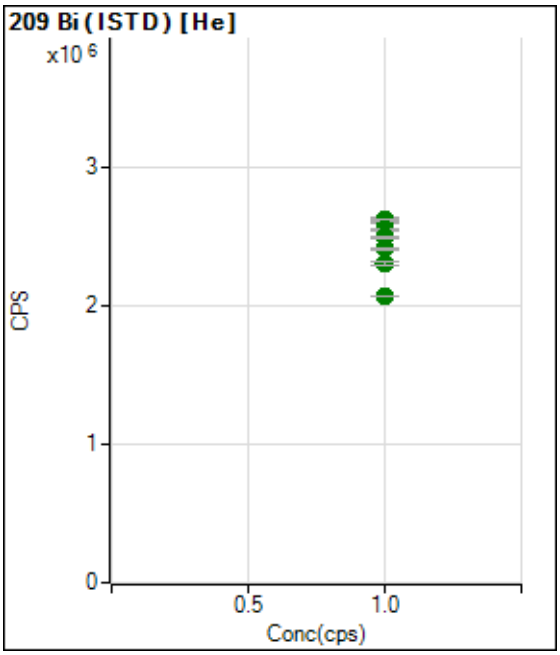


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3705220.01		A	0.4
2	☐	1.000		3716475.33		A	0.6
3	☐	1.000		3678645.50		A	0.3
4	☐	1.000		3706020.43		A	0.6
5	☐	1.000		3591582.69		A	1.1
6	☐	1.000		3537479.29		A	1.0
7	☐	1.000		3522806.69		A	0.5
8	☐	1.000		3393967.21		A	1.1

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		5404964.37		A	0.7
2		1.000		5395765.34		A	0.2
3		1.000		5384155.89		A	1.3
4		1.000		5387348.05		A	1.2
5		1.000		5343483.57		A	1.5
6		1.000		5060360.20		A	1.0
7		1.000		4865989.09		A	0.3
8		1.000		4210306.54		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2623505.81		A	1.1
2		1.000		2617702.34		A	1.3
3		1.000		2626118.12		A	0.8
4		1.000		2558886.31		A	0.4
5		1.000		2501465.46		A	0.4
6		1.000		2416533.68		A	0.8
7		1.000		2309911.98		A	1.0
8		1.000		2074785.01		A	0.5

US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:10 PM
Inst Id :P8
LB :LB135405

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8041025 MS.b
Acq. Date-Time	2025-04-10 10:06:59
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		82118	821177.43			0.633	5.000
24		407419	4074194.66			0.962	5.000
25		56578	565781.77			0.597	5.000
26		66396	663956.94			0.646	5.000
59		369513	3695131.58			0.343	5.000
113		42405	424048.18			0.407	5.000
115		535413	5354127.88			0.621	5.000
206		109323	1093227.92			0.483	5.000
207		92425	924248.60			1.982	5.000
208		227362	2273624.59			0.636	5.000
220		1	5.30			21.719	

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	83006	82010	81745	82084	81744
24	407806	401421	407545	407901	412424
25	56807	55989	56703	56617	56776
26	66453	65675	66790	66632	66429
59	369644	369799	368413	371417	368294
113	42345	42177	42383	42647	42473
115	539225	531729	533122	538558	534430
206	109610	108646	109849	109634	108876
207	93906	89300	92782	92562	93575
208	225443	227006	226751	228885	228728

US EPA Tune Check Report

Reviewed By:moh
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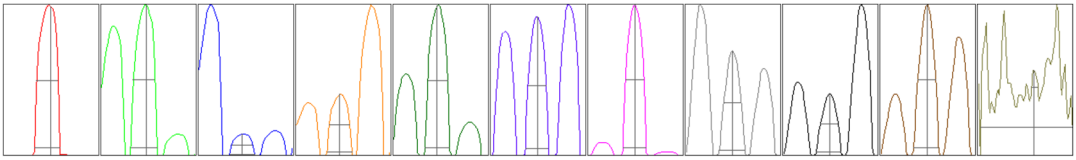
Inst Id :P8
LB :LB135405

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	126532.71	9.00	8.90 - 9.10	
24	649885.50	23.95	23.90 - 24.10	
25	90182.73	24.90	24.90 - 25.10	
26	104336.63	25.90	25.90 - 26.10	
59	619458.27	58.90	58.90 - 59.10	
113	78411.55	113.00	112.90 - 113.10	
115	991848.09	115.00	114.90 - 115.10	
206	206174.37	206.00	205.90 - 206.10	
207	173288.25	207.00	206.90 - 207.10	
208	423229.82	208.00	207.90 - 208.10	
220	0.70	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.69	0.792	0.900	
24	0.69	0.835	0.900	
25	0.67	0.788	0.900	
26	0.65	0.789	0.900	
59	0.63	0.785	0.900	
113	0.57	0.734	0.900	
115	0.57	0.734	0.900	
206	0.55	0.811	0.900	
207	0.55	0.784	0.900	
208	0.56	0.785	0.900	
220	0.20	2.882		

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:moh
On:4/15/2025 1:10 PM
Inst Id :P8
LB :LB135405

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	9.2 V	Deflect	13.0 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	105	Axis Gain	0.9966	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm		

EM

Discriminator	4.5 mV	Analog HV	2202 V	Pulse HV	937 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		77085	770847.07			0.668	
89		65025	650254.35			0.879	
205		74752	747523.48			0.903	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	77194	76925	76800	76586	77918
89	64797	64753	64711	64822	66045
205	74232	74548	74610	74439	75932

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	9.2 V	Deflect	2.2 V

US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:10
PM
Inst Id :P8
LB :LB135405

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	105	Axis Gain	0.9966	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm		

EM

Discriminator	4.5 mV	Analog HV	2202 V	Pulse HV	937 V

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.59	-0.35	-0.24	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	0.01	0.00	N/A	ppb
Barium	135-1	0.00	-0.01	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.01	0.01	0.00	N/A	ppb
Cadmium	106-1	-0.05	0.23	-0.18	0.00	N/A	ppb
Cadmium	111-1	0.00	0.02	-0.01	0.00	N/A	ppb
Calcium	43-1	-0.24	-0.54	0.78	0.00	N/A	ppb
Calcium	44-1	0.13	-0.60	0.46	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	0.00	-0.01	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	-0.15	0.11	0.05	0.00	N/A	ppb
Iron	56-2	-0.03	-0.03	0.06	0.00	N/A	ppb
Iron	57-2	-0.34	0.08	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:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	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	0.16	0.01	-0.16	0.00	N/A	ppb
Manganese	55-2	0.01	-0.02	0.00	0.00	N/A	ppb
Molybdenum	94-1	-0.01	0.01	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.01	0.00	0.00	N/A	ppb
Phosphorus	31-2	-11.65	-24.89	-18.09	-18.21		ppb
Potassium	39-2	-0.94	-1.04	1.98	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.01	0.09	-0.08	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.64	-0.32	-0.32	0.00	N/A	ppb
Silicon	28-1	-0.01	-0.03	0.05	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	-0.29	0.56	-0.27	0.00	N/A	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	20.76	-31.43	113.66	34.33	214.09	ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.01	0.00	-0.01	0.00	N/A	ppb
Titanium	47-1	0.00	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:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.04	-0.10	0.06	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.55	23.26	22.59	22.80	1.74	ppb
Antimony	121-1	2.10	2.15	2.06	2.10	2.01	ppb
Arsenic	75-2	1.08	1.05	1.04	1.05	1.71	ppb
Barium	135-1	10.70	10.70	10.42	10.60	1.52	ppb
Barium	137-1	10.60	10.90	10.43	10.64	2.21	ppb
Beryllium	9-1	1.06	1.07	1.05	1.06	0.87	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.09	1.17	1.12	1.13	3.54	ppb
Cadmium	106-1	1.31	1.60	0.92	1.28	26.63	ppb
Cadmium	111-1	1.14	1.18	1.06	1.13	5.20	ppb
Calcium	43-1	529.49	547.42	536.43	537.78	1.68	ppb
Calcium	44-1	538.06	533.38	536.93	536.12	0.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.17	2.25	2.16	2.20	2.34	ppb
Cobalt	59-2	1.17	1.22	1.18	1.19	2.22	ppb
Copper	63-2	2.40	2.46	2.39	2.41	1.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	57.00	60.12	55.47	57.53	4.12	ppb
Iron	56-2	56.65	57.53	54.85	56.34	2.42	ppb
Iron	57-2	54.98	58.69	56.11	56.59	3.36	ppb
Krypton	83-1						cps
Lead	206-1	0.96	0.93	0.96	0.95	1.63	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.95	0.98	0.99	0.97	1.86	ppb
Lead	208-1	0.96	0.96	0.98	0.97	0.82	ppb
Lithium	6-1				100		%
Magnesium	24-2	577.26	594.04	559.44	576.91	3.00	ppb
Manganese	55-2	1.13	1.13	1.05	1.10	4.03	ppb
Molybdenum	94-1	6.12	6.23	6.18	6.18	0.89	ppb
Molybdenum	95-1	5.10	5.05	5.17	5.10	1.19	ppb
Molybdenum	96-1	5.21	5.22	5.20	5.21	0.18	ppb
Molybdenum	97-1	5.25	5.20	5.30	5.25	0.95	ppb
Molybdenum	98-1	5.15	5.15	5.14	5.15	0.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.89	0.95	0.88	0.91	4.12	ppb
Phosphorus	31-2	20.50	17.25	16.88	18.21	10.93	ppb
Potassium	39-2	512.75	527.67	503.20	514.54	2.40	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	5.32	5.79	5.65	5.59	4.36	ppb
Selenium	77-2	5.16	6.45	3.54	5.05	28.90	ppb
Selenium	78-2	4.93	5.97	3.96	4.95	20.39	ppb
Silicon	28-1	7.26	7.73	7.59	7.53	3.22	ppb
Silver	107-1	1.07	1.08	1.04	1.06	1.93	ppb
Silver	109-1	1.07	1.07	1.06	1.07	0.63	ppb
Sodium	23-2	567.70	584.21	552.78	568.23	2.77	ppb
Strontium	86-1	1.07	1.07	1.03	1.06	1.99	ppb
Strontium	88-1	1.06	1.05	1.06	1.06	0.62	ppb
Sulfur	34-1	-3.84	-57.45	-41.70	-34.33		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.96	1.01	1.03	1.00	3.47	ppb
Thallium	205-1	0.99	1.00	0.99	0.99	0.33	ppb
Tin	118-1	5.28	5.34	5.28	5.30	0.65	ppb
Titanium	47-1	5.42	5.40	5.47	5.43	0.64	ppb
Uranium	238-1	0.99	0.98	0.98	0.98	0.52	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.50	5.71	5.30	5.50	3.68	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	5.35	5.53	5.23	5.37	2.76	ppb
Zirconium	90-1	1.06	1.02	1.04	1.04	1.76	ppb
Zirconium	91-1	1.05	1.02	1.04	1.03	1.56	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1023.55	1024.01	1026.16	1024.58	0.14	ppb
Antimony	121-1	50.58	52.00	50.45	51.01	1.68	ppb
Arsenic	75-2	51.65	50.69	50.36	50.90	1.32	ppb
Barium	135-1	253.64	259.52	253.41	255.52	1.35	ppb
Barium	137-1	252.54	261.66	254.07	256.09	1.91	ppb
Beryllium	9-1	55.72	54.78	55.97	55.49	1.13	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	52.93	52.33	53.17	52.81	0.83	ppb
Cadmium	106-1	52.19	54.78	53.46	53.47	2.42	ppb
Cadmium	111-1	49.72	52.29	50.50	50.83	2.59	ppb
Calcium	43-1	5147.26	5166.74	5331.09	5215.03	1.94	ppb
Calcium	44-1	5023.99	4980.12	5079.32	5027.81	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.66	52.85	53.23	52.92	0.55	ppb
Cobalt	59-2	53.47	53.32	53.43	53.41	0.15	ppb
Copper	63-2	547.61	552.34	552.42	550.79	0.50	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				101		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	2694.94	2697.95	2716.14	2703.01	0.42	ppb
Iron	56-2	2672.87	2661.58	2706.26	2680.23	0.87	ppb
Iron	57-2	2653.08	2662.76	2659.27	2658.37	0.18	ppb
Krypton	83-1						cps
Lead	206-1	245.08	251.75	247.35	248.06	1.37	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	247.90	251.36	249.39	249.55	0.70	ppb
Lead	208-1	246.61	249.42	247.48	247.84	0.58	ppb
Lithium	6-1				101		%
Magnesium	24-2	5339.93	5424.18	5338.93	5367.68	0.91	ppb
Manganese	55-2	529.89	535.99	526.45	530.78	0.91	ppb
Molybdenum	94-1	496.00	495.10	486.67	492.59	1.04	ppb
Molybdenum	95-1	489.38	498.55	491.17	493.03	0.99	ppb
Molybdenum	96-1	478.52	502.41	482.73	487.89	2.61	ppb
Molybdenum	97-1	491.32	511.02	492.92	498.42	2.20	ppb
Molybdenum	98-1	490.79	500.88	493.97	495.21	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.67	52.45	52.68	52.60	0.24	ppb
Phosphorus	31-2	1050.34	1042.20	1073.08	1055.21	1.52	ppb
Potassium	39-2	2471.26	2489.79	2493.56	2484.87	0.48	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	50.97	52.61	51.47	51.68	1.62	ppb
Selenium	77-2	53.13	49.46	53.55	52.05	4.33	ppb
Selenium	78-2	49.03	52.17	50.94	50.71	3.12	ppb
Silicon	28-1	49.86	49.31	67.24	55.47	18.38	ppb
Silver	107-1	53.58	55.89	54.63	54.70	2.12	ppb
Silver	109-1	53.69	53.98	53.75	53.81	0.28	ppb
Sodium	23-2	5243.85	5181.84	5220.58	5215.42	0.60	ppb
Strontium	86-1	49.42	50.62	49.55	49.86	1.33	ppb
Strontium	88-1	49.93	51.09	51.13	50.72	1.35	ppb
Sulfur	34-1	1206.64	1186.88	1279.36	1224.29	3.98	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	47.28	47.83	47.70	47.60	0.60	ppb
Thallium	205-1	48.96	49.47	48.17	48.87	1.34	ppb
Tin	118-1	49.80	50.75	50.02	50.19	0.99	ppb
Titanium	47-1	509.79	506.07	519.03	511.63	1.30	ppb
Uranium	238-1	48.15	48.70	47.07	47.98	1.73	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	52.49	52.42	52.62	52.51	0.19	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	522.61	530.97	529.47	527.68	0.84	ppb
Zirconium	90-1	50.32	50.16	49.65	50.04	0.70	ppb
Zirconium	91-1	48.13	48.73	48.45	48.44	0.62	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2468.42	2481.96	2472.70	2474.36	0.28	ppb
Antimony	121-1	124.55	124.45	125.40	124.80	0.42	ppb
Arsenic	75-2	122.98	124.51	121.67	123.05	1.16	ppb
Barium	135-1	629.41	623.16	632.38	628.32	0.75	ppb
Barium	137-1	618.08	612.80	620.39	617.09	0.63	ppb
Beryllium	9-1	132.13	137.22	130.96	133.44	2.49	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	128.39	124.77	131.19	128.12	2.51	ppb
Cadmium	106-1	127.60	125.30	128.29	127.06	1.23	ppb
Cadmium	111-1	123.09	122.78	124.74	123.53	0.85	ppb
Calcium	43-1	12576.80	12577.69	12374.61	12509.70	0.94	ppb
Calcium	44-1	12438.26	12157.64	12209.28	12268.39	1.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	130.44	129.39	130.18	130.00	0.42	ppb
Cobalt	59-2	135.39	135.20	133.44	134.68	0.80	ppb
Copper	63-2	1360.36	1346.00	1351.51	1352.62	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				102		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	6695.83	6807.72	6686.37	6729.97	1.00	ppb
Iron	56-2	6597.27	6593.81	6610.54	6600.54	0.13	ppb
Iron	57-2	6499.88	6504.38	6551.68	6518.64	0.44	ppb
Krypton	83-1						cps
Lead	206-1	601.59	601.41	620.17	607.72	1.77	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	607.08	601.05	611.39	606.51	0.86	ppb
Lead	208-1	605.16	605.04	613.00	607.73	0.75	ppb
Lithium	6-1				101		%
Magnesium	24-2	12836.87	12724.21	13032.30	12864.46	1.21	ppb
Manganese	55-2	1307.28	1307.87	1303.04	1306.06	0.20	ppb
Molybdenum	94-1	1244.08	1215.02	1216.87	1225.32	1.33	ppb
Molybdenum	95-1	1239.07	1203.09	1200.08	1214.08	1.79	ppb
Molybdenum	96-1	1232.73	1211.66	1207.33	1217.24	1.12	ppb
Molybdenum	97-1	1256.94	1227.84	1226.50	1237.09	1.39	ppb
Molybdenum	98-1	1243.08	1224.36	1229.23	1232.22	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	129.46	128.80	128.42	128.89	0.40	ppb
Phosphorus	31-2	2605.11	2604.51	2689.87	2633.17	1.87	ppb
Potassium	39-2	6015.72	6070.99	6039.53	6042.08	0.46	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	128.25	127.44	126.83	127.51	0.56	ppb
Selenium	77-2	121.04	130.38	117.94	123.12	5.26	ppb
Selenium	78-2	126.85	120.82	129.94	125.87	3.69	ppb
Silicon	28-1	125.11	121.63	123.45	123.40	1.41	ppb
Silver	107-1	131.47	130.80	130.67	130.98	0.33	ppb
Silver	109-1	131.38	129.03	131.54	130.65	1.07	ppb
Sodium	23-2	12737.58	12682.20	12691.62	12703.80	0.23	ppb
Strontium	86-1	122.22	123.30	122.13	122.55	0.53	ppb
Strontium	88-1	123.61	124.60	123.68	123.96	0.45	ppb
Sulfur	34-1	2415.82	2040.14	2134.59	2196.85	8.90	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	121.04	121.35	124.10	122.16	1.38	ppb
Thallium	205-1	120.11	120.37	120.88	120.45	0.33	ppb
Tin	118-1	125.35	124.52	124.71	124.86	0.35	ppb
Titanium	47-1	1226.33	1214.79	1210.72	1217.28	0.67	ppb
Uranium	238-1	118.37	116.47	118.03	117.62	0.86	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	129.41	128.51	129.04	128.99	0.35	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	1359.92	1330.19	1307.07	1332.39	1.99	ppb
Zirconium	90-1	121.14	122.75	119.98	121.29	1.15	ppb
Zirconium	91-1	125.98	121.94	121.65	123.19	1.96	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4893.54	4855.38	4885.60	4878.17	0.41	ppb
Antimony	121-1	255.98	249.32	243.25	249.52	2.55	ppb
Arsenic	75-2	250.27	248.11	249.67	249.35	0.45	ppb
Barium	135-1	1282.98	1271.35	1201.55	1251.96	3.52	ppb
Barium	137-1	1283.37	1246.49	1210.19	1246.68	2.94	ppb
Beryllium	9-1	250.40	253.24	252.79	252.14	0.61	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	261.52	249.53	252.28	254.44	2.47	ppb
Cadmium	106-1	255.93	256.48	249.14	253.85	1.61	ppb
Cadmium	111-1	261.48	257.80	256.34	258.54	1.03	ppb
Calcium	43-1	25195.60	24954.70	24460.92	24870.40	1.51	ppb
Calcium	44-1	24677.77	24808.78	24337.35	24607.97	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	257.14	259.41	260.62	259.06	0.68	ppb
Cobalt	59-2	259.99	259.04	260.30	259.78	0.25	ppb
Copper	63-2	2634.92	2603.92	2634.60	2624.48	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				101		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	54-2	12858.70	13116.78	13083.61	13019.70	1.08	ppb
Iron	56-2	12842.33	12812.08	13016.64	12890.35	0.86	ppb
Iron	57-2	13094.41	13026.39	13155.14	13091.98	0.49	ppb
Krypton	83-1						cps
Lead	206-1	1211.71	1233.85	1228.47	1224.68	0.94	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1208.56	1228.62	1221.99	1219.73	0.84	ppb
Lead	208-1	1217.12	1229.00	1218.97	1221.70	0.52	ppb
Lithium	6-1				100		%
Magnesium	24-2	25746.19	24842.54	25434.73	25341.15	1.81	ppb
Manganese	55-2	2514.36	2547.31	2564.85	2542.18	1.01	ppb
Molybdenum	94-1	2464.14	2449.25	2502.77	2472.05	1.12	ppb
Molybdenum	95-1	2455.16	2440.39	2516.20	2470.59	1.63	ppb
Molybdenum	96-1	2441.32	2421.75	2511.05	2458.04	1.91	ppb
Molybdenum	97-1	2474.76	2464.93	2521.31	2487.00	1.21	ppb
Molybdenum	98-1	2457.90	2489.67	2527.28	2491.61	1.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	248.62	246.42	250.12	248.38	0.75	ppb
Phosphorus	31-2	5272.39	4998.16	5339.42	5203.32	3.47	ppb
Potassium	39-2	11977.15	11663.04	11963.15	11867.78	1.50	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	255.86	257.21	257.19	256.75	0.30	ppb
Selenium	77-2	260.21	249.69	244.21	251.37	3.24	ppb
Selenium	78-2	247.46	248.56	258.65	251.56	2.45	ppb
Silicon	28-1	258.77	256.64	253.04	256.15	1.13	ppb
Silver	107-1	262.73	252.44	253.93	256.36	2.17	ppb
Silver	109-1	262.09	259.49	256.71	259.43	1.04	ppb
Sodium	23-2	25260.97	24700.17	25190.20	25050.44	1.22	ppb
Strontium	86-1	257.85	250.08	251.50	253.14	1.63	ppb
Strontium	88-1	253.32	247.79	245.98	249.03	1.54	ppb
Sulfur	34-1	5298.14	4996.32	4816.00	5036.82	4.84	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	236.11	246.16	243.89	242.05	2.18	ppb
Thallium	205-1	234.81	240.92	240.27	238.66	1.41	ppb
Tin	118-1	253.82	252.90	252.06	252.93	0.35	ppb
Titanium	47-1	2489.14	2505.56	2487.27	2493.99	0.40	ppb
Uranium	238-1	235.95	237.24	232.25	235.15	1.10	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	254.14	255.70	254.11	254.65	0.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	2629.74	2549.52	2652.16	2610.48	2.07	ppb
Zirconium	90-1	244.82	245.11	244.98	244.97	0.06	ppb
Zirconium	91-1	243.83	247.27	250.25	247.12	1.30	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9706.12	9837.59	9773.98	9772.57	0.67	ppb
Antimony	121-1	495.80	496.58	502.04	498.14	0.68	ppb
Arsenic	75-2	505.29	504.23	505.66	505.06	0.15	ppb
Barium	135-1	2502.16	2538.23	2537.20	2525.87	0.81	ppb
Barium	137-1	2498.99	2525.11	2522.13	2515.41	0.57	ppb
Beryllium	9-1	497.45	505.48	497.24	500.06	0.94	ppb
Bismuth	209-1				94		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	500.20	503.69	506.36	503.42	0.61	ppb
Cadmium	106-1	495.79	503.48	509.67	502.98	1.38	ppb
Cadmium	111-1	496.78	502.31	505.31	501.46	0.86	ppb
Calcium	43-1	50431.23	49478.10	50780.40	50229.91	1.34	ppb
Calcium	44-1	48925.53	50175.24	50073.85	49724.87	1.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	509.14	515.04	508.95	511.04	0.68	ppb
Cobalt	59-2	517.43	520.50	522.10	520.01	0.46	ppb
Copper	63-2	5174.14	5224.72	5125.84	5174.90	0.96	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				95		%
Indium	115-1				92		%
Indium	115-2				87		%
Iron	54-2	25704.07	26012.42	25744.73	25820.40	0.65	ppb
Iron	56-2	25599.42	26184.15	25638.32	25807.30	1.27	ppb
Iron	57-2	26017.53	26375.83	26200.49	26197.95	0.68	ppb
Krypton	83-1						cps
Lead	206-1	2503.48	2496.34	2523.51	2507.78	0.56	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2511.31	2498.59	2531.97	2513.96	0.67	ppb
Lead	208-1	2503.99	2502.64	2521.32	2509.32	0.42	ppb
Lithium	6-1				97		%
Magnesium	24-2	50087.87	51133.13	50293.79	50504.93	1.10	ppb
Manganese	55-2	5029.30	5164.32	5087.87	5093.83	1.33	ppb
Molybdenum	94-1	4894.83	4983.25	5033.53	4970.54	1.41	ppb
Molybdenum	95-1	4917.35	5049.05	5029.57	4998.66	1.42	ppb
Molybdenum	96-1	4915.19	5028.00	4971.07	4971.42	1.13	ppb
Molybdenum	97-1	4981.96	5039.21	5067.10	5029.42	0.86	ppb
Molybdenum	98-1	4925.50	4983.57	5102.37	5003.81	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	524.60	521.22	521.98	522.60	0.34	ppb
Phosphorus	31-2	10281.13	10363.85	10280.95	10308.64	0.46	ppb
Potassium	39-2	23773.39	23731.24	23691.20	23731.94	0.17	ppb
Rhodium	103-1				93		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	490.34	505.22	508.67	501.41	1.94	ppb
Selenium	77-2	497.28	508.50	517.81	507.86	2.02	ppb
Selenium	78-2	495.48	507.80	501.05	501.44	1.23	ppb
Silicon	28-1	494.87	518.55	511.84	508.42	2.40	ppb
Silver	107-1	505.06	506.69	506.34	506.03	0.17	ppb
Silver	109-1	503.56	506.87	507.26	505.90	0.40	ppb
Sodium	23-2	49786.93	50922.00	50276.06	50328.33	1.13	ppb
Strontium	86-1	495.57	506.33	511.34	504.41	1.60	ppb
Strontium	88-1	496.77	505.82	505.63	502.74	1.03	ppb
Sulfur	34-1	9752.91	10137.23	9952.66	9947.60	1.93	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	502.91	492.61	492.98	496.16	1.18	ppb
Thallium	205-1	501.11	494.46	492.84	496.14	0.88	ppb
Tin	118-1	501.39	496.48	497.56	498.47	0.52	ppb
Titanium	47-1	4928.63	5052.51	5038.61	5006.58	1.36	ppb
Uranium	238-1	488.39	488.85	491.25	489.50	0.31	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	504.13	524.30	512.17	513.54	1.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				93		%
Zinc	66-2	5145.21	5237.48	5102.31	5161.67	1.34	ppb
Zirconium	90-1	489.74	492.87	507.00	496.53	1.85	ppb
Zirconium	91-1	489.98	498.08	496.77	494.94	0.88	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18906.25	18491.34	18200.30	18532.63	1.91	ppb
Antimony	121-1	996.46	1001.78	1004.84	1001.03	0.42	ppb
Arsenic	75-2	997.03	996.88	999.58	997.83	0.15	ppb
Barium	135-1	4862.83	5021.34	5073.49	4985.88	2.20	ppb
Barium	137-1	4878.69	5029.82	5072.91	4993.81	2.04	ppb
Beryllium	9-1	1003.24	983.11	1007.96	998.10	1.32	ppb
Bismuth	209-1				90		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	998.76	989.24	1001.95	996.65	0.66	ppb
Cadmium	106-1	998.67	996.97	995.70	997.12	0.15	ppb
Cadmium	111-1	991.88	984.41	1015.53	997.27	1.63	ppb
Calcium	43-1	99050.69	102277.35	101212.30	100846.78	1.63	ppb
Calcium	44-1	98353.17	100978.08	100350.88	99894.04	1.37	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	995.73	994.28	984.32	991.44	0.63	ppb
Cobalt	59-2	982.30	990.56	985.65	986.17	0.42	ppb
Copper	63-2	9892.35	9803.25	9902.59	9866.06	0.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				95		%
Indium	115-1				86		%
Indium	115-2				79		%
Iron	54-2	50178.97	50672.99	49518.16	50123.37	1.16	ppb
Iron	56-2	50188.77	49166.44	49807.85	49721.02	1.04	ppb
Iron	57-2	50152.29	49638.81	49597.05	49796.05	0.62	ppb
Krypton	83-1						cps
Lead	206-1	4948.43	4998.27	5067.39	5004.70	1.19	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4965.07	5049.46	4994.25	5002.92	0.86	ppb
Lead	208-1	4967.53	5029.02	5017.51	5004.68	0.65	ppb
Lithium	6-1				94		%
Magnesium	24-2	97015.83	97232.58	95912.31	96720.24	0.73	ppb
Manganese	55-2	9991.55	9920.80	9889.64	9933.99	0.53	ppb
Molybdenum	94-1	9984.59	10035.08	10055.85	10025.17	0.37	ppb
Molybdenum	95-1	9975.97	9916.21	10146.41	10012.86	1.19	ppb
Molybdenum	96-1	9993.15	10001.64	10093.66	10029.48	0.56	ppb
Molybdenum	97-1	9825.65	10067.12	10077.92	9990.23	1.43	ppb
Molybdenum	98-1	9898.52	10056.65	10052.78	10002.65	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	989.72	985.77	989.98	988.49	0.24	ppb
Phosphorus	31-2	19810.61	19761.27	19754.44	19775.44	0.15	ppb
Potassium	39-2	46494.83	45369.68	45887.46	45917.33	1.23	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				94		%
Selenium	82-1	986.39	993.58	1011.66	997.21	1.31	ppb
Selenium	77-2	956.84	998.42	1032.31	995.86	3.80	ppb
Selenium	78-2	999.52	1003.10	993.61	998.74	0.48	ppb
Silicon	28-1	990.01	995.84	996.76	994.20	0.37	ppb
Silver	107-1	979.98	995.70	1007.55	994.41	1.39	ppb
Silver	109-1	980.64	983.74	1017.01	993.80	2.03	ppb
Sodium	23-2	96817.02	97007.34	96721.58	96848.65	0.15	ppb
Strontium	86-1	994.33	996.66	1000.98	997.32	0.34	ppb
Strontium	88-1	993.67	998.13	1005.10	998.97	0.58	ppb
Sulfur	34-1	20038.85	20345.92	19746.25	20043.68	1.50	ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	987.09	1002.93	1023.12	1004.38	1.80	ppb
Thallium	205-1	988.05	1010.39	1017.73	1005.39	1.54	ppb
Tin	118-1	995.54	997.05	1007.52	1000.04	0.65	ppb
Titanium	47-1	10059.56	9967.23	9978.37	10001.72	0.50	ppb
Uranium	238-1	1005.65	1000.76	1023.55	1009.99	1.19	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	987.87	995.33	991.12	991.44	0.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				92		%
Zinc	66-2	9952.08	9854.49	9833.02	9879.86	0.64	ppb
Zirconium	90-1	1000.37	1006.61	1003.38	1003.45	0.31	ppb
Zirconium	91-1	1007.71	996.56	1006.40	1003.55	0.61	ppb

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	102298.05	101526.11	97143.94	100322.70	2.77	ppb
Antimony	121-1	0.58	0.55	0.52	0.55	5.09	ppb
Arsenic	75-2	0.49	0.49	0.46	0.48	3.24	ppb
Barium	135-1	2.00	2.00	1.99	2.00	0.17	ppb
Barium	137-1	2.01	2.05	2.04	2.03	0.92	ppb
Beryllium	9-1	0.27	0.26	0.26	0.26	3.37	ppb
Bismuth	209-1				78		%
Bismuth	209-2				79		%
Bromine	81-1						cps
Cadmium	108-1	0.37	0.40	0.42	0.40	5.57	ppb
Cadmium	106-1	0.40	-0.01	0.34	0.24	91.01	ppb
Cadmium	111-1	0.17	0.12	0.15	0.15	14.72	ppb
Calcium	43-1	506437.49	495363.36	497634.26	499811.70	1.17	ppb
Calcium	44-1	502908.75	496128.83	501183.76	500073.78	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.12	8.82	8.53	8.82	3.34	ppb
Cobalt	59-2	2.24	2.18	2.08	2.17	3.71	ppb
Copper	63-2	2.47	2.47	2.33	2.43	3.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				90		%
Holmium	165-2				92		%
Indium	115-1				83		%
Indium	115-2				86		%
Iron	54-2	257903.17	252615.43	239041.22	249853.27	3.89	ppb
Iron	56-2	256663.92	254411.63	238759.40	249944.98	3.90	ppb
Iron	57-2	255790.87	252309.95	241548.47	249883.09	2.97	ppb
Krypton	83-1						cps
Lead	206-1	5.83	5.86	5.78	5.82	0.67	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.94	5.95	5.81	5.90	1.35	ppb
Lead	208-1	5.91	5.89	5.81	5.87	0.88	ppb
Lithium	6-1				86		%
Magnesium	24-2	511336.77	506790.23	483599.62	500575.54	2.97	ppb
Manganese	55-2	5.34	5.19	5.03	5.19	3.05	ppb
Molybdenum	94-1	1.97	1.88	1.98	1.94	2.96	ppb
Molybdenum	95-1	1.34	1.33	1.37	1.35	1.67	ppb
Molybdenum	96-1	2.12	2.07	2.10	2.10	1.14	ppb
Molybdenum	97-1	1.33	1.26	1.24	1.28	3.62	ppb
Molybdenum	98-1	1.28	1.21	1.21	1.23	3.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.43	4.38	4.13	4.31	3.68	ppb
Phosphorus	31-2	-13.83	-11.87	-19.48	-15.06		ppb
Potassium	39-2	256417.26	253590.12	242933.44	250980.27	2.83	ppb
Rhodium	103-1				77		%
Rhodium	103-2				78		%
Scandium	45-1				85		%
Scandium	45-2				88		%
Selenium	82-1	0.76	0.73	0.59	0.69	12.71	ppb
Selenium	77-2	1.07	1.07	0.35	0.83	49.59	ppb
Selenium	78-2	0.38	0.79	1.11	0.76	48.16	ppb
Silicon	28-1	22.16	19.00	17.96	19.71	11.10	ppb
Silver	107-1	0.10	0.09	0.08	0.09	10.31	ppb
Silver	109-1	0.10	0.10	0.09	0.10	7.80	ppb
Sodium	23-2	507221.82	507266.20	487274.77	500587.60	2.30	ppb
Strontium	86-1	3.26	3.27	3.42	3.32	2.76	ppb
Strontium	88-1	3.27	3.28	3.37	3.31	1.64	ppb
Sulfur	34-1	-975.57	-1068.39	-1020.58	-1021.52		ppb
Terbium	159-1				89		%
Terbium	159-2				92		%
Thallium	203-1	0.09	0.07	0.07	0.08	10.10	ppb
Thallium	205-1	0.09	0.08	0.07	0.08	12.54	ppb
Tin	118-1	0.17	0.15	0.15	0.16	5.36	ppb
Titanium	47-1	0.78	0.80	0.79	0.79	1.53	ppb
Uranium	238-1	0.05	0.04	0.04	0.04	9.12	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.28	0.25	0.27	6.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				91		%
Zinc	66-2	59.74	60.05	56.53	58.77	3.31	ppb
Zirconium	90-1	0.47	0.44	0.45	0.46	3.32	ppb
Zirconium	91-1	0.45	0.45	0.49	0.46	4.32	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	489.76	476.53	477.05	481.11	1.56	ppb
Antimony	121-1	195.17	191.02	196.62	194.27	1.50	ppb
Arsenic	75-2	194.87	194.45	194.43	194.58	0.13	ppb
Barium	135-1	96.55	95.28	99.11	96.98	2.01	ppb
Barium	137-1	97.99	98.18	99.66	98.61	0.93	ppb
Beryllium	9-1	98.42	104.01	99.01	100.48	3.06	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	82.37	83.27	84.47	83.37	1.27	ppb
Cadmium	106-1	80.94	79.38	81.33	80.55	1.28	ppb
Cadmium	111-1	100.66	98.40	101.54	100.20	1.62	ppb
Calcium	43-1	1861.28	1903.87	1907.14	1890.76	1.35	ppb
Calcium	44-1	1861.08	1863.01	1860.40	1861.50	0.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.91	101.18	101.63	101.57	0.36	ppb
Cobalt	59-2	108.43	106.30	106.12	106.95	1.20	ppb
Copper	63-2	105.51	105.16	104.22	104.96	0.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				104		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	54-2	2071.24	2045.39	2046.77	2054.47	0.71	ppb
Iron	56-2	2022.81	2005.67	2027.95	2018.81	0.58	ppb
Iron	57-2	1993.24	1936.17	1981.27	1970.22	1.53	ppb
Krypton	83-1						cps
Lead	206-1	194.28	191.78	200.63	195.56	2.33	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	190.41	187.42	191.23	189.68	1.06	ppb
Lead	208-1	191.95	188.99	195.05	192.00	1.58	ppb
Lithium	6-1				100		%
Magnesium	24-2	1193.53	1187.17	1189.48	1190.06	0.27	ppb
Manganese	55-2	100.43	99.67	100.45	100.18	0.44	ppb
Molybdenum	94-1	0.05	0.05	0.04	0.05	5.22	ppb
Molybdenum	95-1	0.02	0.01	0.01	0.01	9.78	ppb
Molybdenum	96-1	0.03	0.04	0.04	0.04	7.20	ppb
Molybdenum	97-1	0.02	0.01	0.01	0.01	11.46	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.02	10.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	102.01	101.91	102.33	102.08	0.21	ppb
Phosphorus	31-2	-24.22	-22.73	-18.96	-21.97		ppb
Potassium	39-2	1880.84	1862.02	1880.68	1874.51	0.58	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	203.83	204.55	199.94	202.77	1.22	ppb
Selenium	77-2	211.71	207.49	191.66	203.62	5.19	ppb
Selenium	78-2	218.69	204.31	208.26	210.42	3.53	ppb
Silicon	28-1	-1.25	-1.07	-1.60	-1.31		ppb
Silver	107-1	51.98	52.44	51.78	52.07	0.64	ppb
Silver	109-1	51.84	50.66	52.80	51.77	2.07	ppb
Sodium	23-2	2029.90	1956.11	2010.33	1998.78	1.91	ppb
Strontium	86-1	0.22	0.23	0.23	0.23	1.72	ppb
Strontium	88-1	0.23	0.23	0.23	0.23	0.91	ppb
Sulfur	34-1	-554.72	-575.53	-592.41	-574.22		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	200.73	197.66	203.65	200.68	1.49	ppb
Thallium	205-1	195.90	189.99	197.00	194.29	1.94	ppb
Tin	118-1	0.02	0.01	0.02	0.02	50.79	ppb
Titanium	47-1	0.01	0.00	-0.01	0.00		ppb
Uranium	238-1	0.00	0.00	0.00	0.00	371.73	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	100.44	99.00	99.33	99.59	0.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				105		%
Zinc	66-2	198.36	196.63	196.86	197.28	0.48	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	6.02	ppb
Zirconium	91-1	0.08	0.10	0.09	0.09	6.67	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.71	21.30	21.60	21.87	3.39	ppb
Antimony	121-1	2.15	2.14	2.15	2.15	0.31	ppb
Arsenic	75-2	1.03	1.11	1.06	1.07	3.90	ppb
Barium	135-1	10.61	10.89	10.77	10.76	1.30	ppb
Barium	137-1	10.82	10.84	10.70	10.79	0.68	ppb
Beryllium	9-1	1.09	1.11	1.09	1.09	1.15	ppb
Bismuth	209-1				97		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	1.12	1.21	1.16	1.16	3.81	ppb
Cadmium	106-1	1.41	1.48	1.50	1.46	3.10	ppb
Cadmium	111-1	1.17	1.17	1.20	1.18	1.29	ppb
Calcium	43-1	508.00	531.02	520.76	519.93	2.22	ppb
Calcium	44-1	514.89	524.36	514.26	517.84	1.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.16	2.22	2.17	2.18	1.56	ppb
Cobalt	59-2	1.22	1.18	1.13	1.18	3.54	ppb
Copper	63-2	2.27	2.20	2.12	2.20	3.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				104		%
Iron	54-2	59.74	58.41	55.54	57.90	3.71	ppb
Iron	56-2	56.07	54.84	53.39	54.77	2.45	ppb
Iron	57-2	56.46	54.53	53.02	54.67	3.15	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.93	0.91	0.93	1.20	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.93	0.96	0.95	0.95	2.02	ppb
Lead	208-1	0.94	0.95	0.94	0.94	0.59	ppb
Lithium	6-1				96		%
Magnesium	24-2	581.11	568.95	556.91	568.99	2.13	ppb
Manganese	55-2	1.04	1.08	1.05	1.06	2.11	ppb
Molybdenum	94-1	6.27	6.15	6.21	6.21	1.02	ppb
Molybdenum	95-1	5.10	5.14	5.09	5.11	0.50	ppb
Molybdenum	96-1	5.22	5.20	5.24	5.22	0.37	ppb
Molybdenum	97-1	5.23	5.10	5.27	5.20	1.75	ppb
Molybdenum	98-1	5.24	5.11	5.16	5.17	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.90	0.89	0.88	0.89	1.09	ppb
Phosphorus	31-2	20.63	14.74	13.03	16.13	24.72	ppb
Potassium	39-2	531.62	520.61	519.89	524.04	1.25	ppb
Rhodium	103-1				102		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	5.23	5.00	5.47	5.23	4.44	ppb
Selenium	77-2	5.93	5.27	5.58	5.59	5.94	ppb
Selenium	78-2	4.74	5.89	4.52	5.05	14.58	ppb
Silicon	28-1	5.18	6.89	6.78	6.28	15.29	ppb
Silver	107-1	1.08	1.10	1.13	1.10	2.53	ppb
Silver	109-1	1.12	1.13	1.13	1.12	0.33	ppb
Sodium	23-2	576.59	570.34	566.28	571.07	0.91	ppb
Strontium	86-1	1.04	1.08	1.06	1.06	1.88	ppb
Strontium	88-1	1.04	1.07	1.07	1.06	1.67	ppb
Sulfur	34-1	-435.48	-359.20	-391.85	-395.51		ppb
Terbium	159-1				97		%
Terbium	159-2				101		%
Thallium	203-1	0.97	1.01	1.00	0.99	1.78	ppb
Thallium	205-1	0.99	0.99	0.97	0.98	1.00	ppb
Tin	118-1	5.37	5.48	5.45	5.43	1.11	ppb
Titanium	47-1	5.27	5.31	5.34	5.31	0.70	ppb
Uranium	238-1	0.96	0.98	0.96	0.96	1.00	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.71	5.62	5.36	5.56	3.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				105		%
Zinc	66-2	5.23	5.35	5.03	5.20	3.07	ppb
Zirconium	90-1	1.05	1.04	1.05	1.04	0.66	ppb
Zirconium	91-1	1.05	1.02	1.06	1.04	1.97	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.26	-0.61	-0.15	-0.34		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	22.09	ppb
Arsenic	75-2	-0.01	0.00	0.00	0.00		ppb
Barium	135-1	0.00	0.00	0.00	0.00	253.71	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	147.25	ppb
Bismuth	209-1				98		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.05	0.00	0.02	126.43	ppb
Cadmium	106-1	0.27	-0.43	-0.47	-0.21		ppb
Cadmium	111-1	0.02	-0.03	-0.04	-0.02		ppb
Calcium	43-1	-8.89	-8.33	-8.60	-8.61		ppb
Calcium	44-1	-8.32	-7.61	-8.08	-8.00		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	-0.01	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.01	0.00	-0.01	0.00		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				104		%
Iron	54-2	0.30	0.16	0.26	0.24	30.37	ppb
Iron	56-2	-0.16	-0.25	-0.17	-0.20		ppb
Iron	57-2	0.03	0.08	0.30	0.14	105.18	ppb
Krypton	83-1						cps
Lead	206-1	-0.04	-0.04	-0.04	-0.04		ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.04	-0.04	-0.04	-0.04		ppb
Lead	208-1	-0.04	-0.04	-0.04	-0.04		ppb
Lithium	6-1				96		%
Magnesium	24-2	-0.45	-0.38	-0.27	-0.36		ppb
Manganese	55-2	0.00	-0.03	0.00	-0.01		ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	497.17	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	-0.21	-0.20	-0.23	-0.21		ppb
Phosphorus	31-2	-15.57	-23.13	-23.29	-20.66		ppb
Potassium	39-2	6.83	4.43	5.31	5.52	21.97	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	-0.01	-0.06	-0.03	-0.03		ppb
Selenium	77-2	0.31	0.31	0.00	0.21	86.60	ppb
Selenium	78-2	0.01	0.47	-0.26	0.07	501.85	ppb
Silicon	28-1	-1.11	-1.12	-0.88	-1.04		ppb
Silver	107-1	0.00	0.01	0.01	0.01	18.78	ppb
Silver	109-1	0.01	0.00	0.00	0.00	16.21	ppb
Sodium	23-2	1.12	1.36	2.15	1.54	35.00	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-555.77	-445.96	-534.82	-512.18		ppb
Terbium	159-1				98		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.00	0.01	0.01	39.61	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.17	ppb
Tin	118-1	0.03	-0.01	0.00	0.01	200.90	ppb
Titanium	47-1	0.00	0.01	-0.01	0.00		ppb
Uranium	238-1	0.00	0.00	0.00	0.00	244.28	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.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				105		%
Zinc	66-2	-0.45	-0.47	-0.35	-0.42		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	3.75	ppb
Zirconium	91-1	0.00	0.01	0.01	0.00	79.05	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90874.45	93233.95	92013.48	92040.63	1.28	ppb
Antimony	121-1	1.19	1.21	1.20	1.20	0.68	ppb
Arsenic	75-2	0.35	0.23	0.30	0.30	19.81	ppb
Barium	135-1	1.39	1.43	1.52	1.45	4.59	ppb
Barium	137-1	1.45	1.50	1.44	1.46	2.26	ppb
Beryllium	9-1	0.41	0.42	0.42	0.41	1.30	ppb
Bismuth	209-1				89		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	15.05	14.71	14.13	14.63	3.19	ppb
Cadmium	106-1	-0.52	-0.55	-0.71	-0.59		ppb
Cadmium	111-1	0.47	0.53	0.45	0.48	8.98	ppb
Calcium	43-1	98471.41	99003.90	102086.22	99853.84	1.95	ppb
Calcium	44-1	98391.32	97749.55	102657.36	99599.41	2.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.09	20.45	20.39	20.31	0.97	ppb
Cobalt	59-2	1.18	1.23	1.20	1.20	2.02	ppb
Copper	63-2	7.63	7.86	7.83	7.77	1.61	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				96		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	101104.39	102920.70	101476.08	101833.72	0.94	ppb
Iron	56-2	101718.35	105106.99	101789.68	102871.67	1.88	ppb
Iron	57-2	100955.18	103099.48	102171.41	102075.36	1.05	ppb
Krypton	83-1						cps
Lead	206-1	4.66	4.56	4.55	4.59	1.36	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.28	4.25	4.20	4.24	0.96	ppb
Lead	208-1	4.38	4.40	4.36	4.38	0.49	ppb
Lithium	6-1				93		%
Magnesium	24-2	96143.32	98371.50	95469.67	96661.49	1.57	ppb
Manganese	55-2	7.79	8.00	7.78	7.86	1.61	ppb
Molybdenum	94-1	1585.76	1606.36	1551.75	1581.29	1.74	ppb
Molybdenum	95-1	1947.41	1977.73	1899.90	1941.68	2.02	ppb
Molybdenum	96-1	1917.02	1944.14	1881.01	1914.06	1.65	ppb
Molybdenum	97-1	1962.62	1998.63	1963.92	1975.05	1.03	ppb
Molybdenum	98-1	1963.69	1942.70	1937.61	1948.00	0.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.34	5.75	5.71	5.60	4.03	ppb
Phosphorus	31-2	108191.62	109148.36	108462.74	108600.91	0.45	ppb
Potassium	39-2	95535.02	96838.47	95823.63	96065.71	0.71	ppb
Rhodium	103-1				90		%
Rhodium	103-2				89		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	0.05	-0.06	0.28	0.09	186.94	ppb
Selenium	77-2	0.34	0.34	0.34	0.34	0.73	ppb
Selenium	78-2	-0.30	-0.09	0.32	-0.02		ppb
Silicon	28-1	18.23	23.08	26.43	22.58	18.25	ppb
Silver	107-1	0.04	0.05	0.04	0.04	6.84	ppb
Silver	109-1	0.05	0.04	0.04	0.04	8.13	ppb
Sodium	23-2	102255.28	104495.86	101671.52	102807.55	1.45	ppb
Strontium	86-1	33.55	33.68	33.30	33.51	0.58	ppb
Strontium	88-1	35.02	34.79	34.72	34.84	0.45	ppb
Sulfur	34-1	103344.47	104047.13	105125.76	104172.46	0.86	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.09	0.11	0.13	0.11	18.33	ppb
Thallium	205-1	0.09	0.12	0.13	0.11	19.72	ppb
Tin	118-1	0.16	0.14	0.15	0.15	5.77	ppb
Titanium	47-1	2013.63	2041.68	2053.61	2036.30	1.01	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	5.15	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.16	0.16	0.16	1.89	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	13.76	14.03	14.14	13.98	1.39	ppb
Zirconium	90-1	0.03	0.03	0.04	0.03	12.65	ppb
Zirconium	91-1	0.04	0.03	0.03	0.03	6.14	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87466.25	85719.38	87087.35	86757.66	1.06	ppb
Antimony	121-1	19.01	18.90	19.42	19.11	1.45	ppb
Arsenic	75-2	18.99	18.29	19.11	18.80	2.37	ppb
Barium	135-1	19.63	19.59	20.36	19.86	2.17	ppb
Barium	137-1	19.89	19.84	20.30	20.01	1.26	ppb
Beryllium	9-1	18.39	17.65	18.16	18.07	2.09	ppb
Bismuth	209-1				91		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	28.91	27.93	28.96	28.60	2.03	ppb
Cadmium	106-1	14.02	14.18	14.65	14.29	2.29	ppb
Cadmium	111-1	17.87	18.20	18.49	18.19	1.71	ppb
Calcium	43-1	93726.42	92834.60	92919.98	93160.33	0.53	ppb
Calcium	44-1	92776.66	92843.19	91826.12	92481.99	0.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.67	38.13	37.90	38.23	1.03	ppb
Cobalt	59-2	20.39	20.10	20.21	20.23	0.72	ppb
Copper	63-2	26.91	26.39	26.23	26.51	1.34	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				98		%
Holmium	165-2				97		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	54-2	96782.15	96948.21	96500.39	96743.58	0.23	ppb
Iron	56-2	99843.51	95409.14	98333.31	97861.99	2.30	ppb
Iron	57-2	98139.58	96394.62	97160.65	97231.62	0.90	ppb
Krypton	83-1						cps
Lead	206-1	22.50	22.19	22.32	22.33	0.69	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.99	21.85	22.02	21.96	0.41	ppb
Lead	208-1	21.93	22.05	21.97	21.98	0.27	ppb
Lithium	6-1				97		%
Magnesium	24-2	92914.42	91348.77	91678.95	91980.72	0.90	ppb
Manganese	55-2	26.56	26.39	26.01	26.32	1.07	ppb
Molybdenum	94-1	1506.16	1503.33	1494.27	1501.25	0.41	ppb
Molybdenum	95-1	1831.80	1841.28	1814.43	1829.17	0.74	ppb
Molybdenum	96-1	1786.85	1809.41	1782.75	1793.00	0.80	ppb
Molybdenum	97-1	1834.13	1865.73	1841.26	1847.04	0.90	ppb
Molybdenum	98-1	1840.66	1847.52	1822.77	1836.99	0.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.60	23.44	23.68	23.57	0.52	ppb
Phosphorus	31-2	103760.36	101018.90	101256.10	102011.79	1.49	ppb
Potassium	39-2	91634.06	89094.96	90908.60	90545.88	1.44	ppb
Rhodium	103-1				93		%
Rhodium	103-2				90		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	18.85	18.77	19.15	18.92	1.05	ppb
Selenium	77-2	17.29	19.04	19.88	18.74	7.05	ppb
Selenium	78-2	18.99	19.85	19.26	19.37	2.28	ppb
Silicon	28-1	22.55	22.52	22.40	22.49	0.35	ppb
Silver	107-1	17.21	17.05	17.50	17.25	1.32	ppb
Silver	109-1	17.26	17.26	17.75	17.42	1.64	ppb
Sodium	23-2	98629.32	96248.07	97344.59	97407.33	1.22	ppb
Strontium	86-1	31.58	31.56	31.28	31.47	0.53	ppb
Strontium	88-1	32.32	32.67	32.78	32.59	0.75	ppb
Sulfur	34-1	98412.68	97271.51	97412.79	97699.00	0.64	ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	18.41	18.19	18.45	18.35	0.76	ppb
Thallium	205-1	18.32	18.23	18.31	18.29	0.27	ppb
Tin	118-1	0.14	0.15	0.15	0.15	2.90	ppb
Titanium	47-1	1879.88	1888.48	1913.42	1893.93	0.92	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	3.21	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.49	19.26	19.48	19.41	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	33.47	32.19	32.41	32.69	2.10	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	21.59	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	10.70	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49331.52	50063.33	49838.05	49744.30	0.75	ppb
Antimony	121-1	504.01	508.19	511.14	507.78	0.71	ppb
Arsenic	75-2	503.76	501.48	504.55	503.26	0.32	ppb
Barium	135-1	2556.82	2583.68	2619.59	2586.70	1.22	ppb
Barium	137-1	2604.80	2552.06	2606.96	2587.94	1.20	ppb
Beryllium	9-1	520.24	525.02	528.24	524.50	0.77	ppb
Bismuth	209-1				84		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	496.38	507.91	502.18	502.16	1.15	ppb
Cadmium	106-1	497.23	509.57	504.19	503.67	1.23	ppb
Cadmium	111-1	501.39	500.13	504.93	502.15	0.50	ppb
Calcium	43-1	253501.20	256546.99	249435.90	253161.36	1.41	ppb
Calcium	44-1	252707.13	250927.01	249042.92	250892.35	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	523.26	518.41	520.19	520.62	0.47	ppb
Cobalt	59-2	496.21	497.99	501.66	498.62	0.56	ppb
Copper	63-2	4756.53	4869.89	4872.55	4832.99	1.37	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				92		%
Holmium	165-2				94		%
Indium	115-1				86		%
Indium	115-2				85		%
Iron	54-2	127447.67	128863.26	127550.85	127953.93	0.62	ppb
Iron	56-2	127981.12	128333.27	128473.52	128262.64	0.20	ppb
Iron	57-2	127467.88	127214.55	127796.02	127492.82	0.23	ppb
Krypton	83-1						cps
Lead	206-1	2564.06	2597.45	2576.78	2579.43	0.65	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2546.78	2594.02	2601.55	2580.78	1.15	ppb
Lead	208-1	2558.04	2598.08	2604.39	2586.84	0.97	ppb
Lithium	6-1				90		%
Magnesium	24-2	255710.18	255707.06	253051.43	254822.89	0.60	ppb
Manganese	55-2	5140.84	5118.82	5226.24	5161.97	1.10	ppb
Molybdenum	94-1	4987.05	4970.31	5002.29	4986.55	0.32	ppb
Molybdenum	95-1	5014.56	4932.13	4974.49	4973.73	0.83	ppb
Molybdenum	96-1	4974.46	4919.99	4963.57	4952.67	0.58	ppb
Molybdenum	97-1	5041.65	4989.80	5005.89	5012.45	0.53	ppb
Molybdenum	98-1	5016.69	4924.98	5005.11	4982.26	1.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	489.21	494.20	492.01	491.81	0.51	ppb
Phosphorus	31-2	10540.95	10569.42	10723.09	10611.16	0.92	ppb
Potassium	39-2	123287.57	124318.32	121599.80	123068.57	1.12	ppb
Rhodium	103-1				85		%
Rhodium	103-2				85		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	488.93	479.80	482.80	483.84	0.96	ppb
Selenium	77-2	483.50	494.94	511.73	496.72	2.86	ppb
Selenium	78-2	507.49	510.45	492.31	503.42	1.93	ppb
Silicon	28-1	446.42	446.84	441.87	445.04	0.62	ppb
Silver	107-1	493.11	498.10	492.38	494.53	0.63	ppb
Silver	109-1	492.77	499.85	492.31	494.98	0.85	ppb
Sodium	23-2	257482.19	256033.28	255953.32	256489.60	0.34	ppb
Strontium	86-1	504.40	506.80	510.09	507.10	0.56	ppb
Strontium	88-1	511.22	501.30	509.61	507.38	1.05	ppb
Sulfur	34-1	9934.74	10221.85	9949.30	10035.30	1.61	ppb
Terbium	159-1				92		%
Terbium	159-2				95		%
Thallium	203-1	505.51	520.52	512.73	512.92	1.46	ppb
Thallium	205-1	508.53	513.06	514.32	511.97	0.60	ppb
Tin	118-1	502.01	507.67	509.17	506.28	0.75	ppb
Titanium	47-1	5083.69	5121.48	5046.90	5084.02	0.73	ppb
Uranium	238-1	511.80	521.84	521.35	518.33	1.09	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	529.29	529.33	521.46	526.69	0.86	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	4871.91	4921.83	4897.63	4897.12	0.51	ppb
Zirconium	90-1	504.38	505.96	507.99	506.11	0.36	ppb
Zirconium	91-1	501.64	496.18	505.93	501.25	0.98	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.55	1.47	0.89	0.97	47.71	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	10.04	ppb
Arsenic	75-2	0.01	0.01	0.02	0.01	38.40	ppb
Barium	135-1	0.02	0.02	0.02	0.02	7.97	ppb
Barium	137-1	0.02	0.02	0.02	0.02	18.27	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	9.60	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.02	0.02	0.01	76.18	ppb
Cadmium	106-1	0.04	-0.23	0.02	-0.05		ppb
Cadmium	111-1	0.02	-0.01	0.01	0.00	296.55	ppb
Calcium	43-1	2.72	1.55	2.81	2.36	29.65	ppb
Calcium	44-1	1.29	0.62	1.01	0.97	34.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.03	-0.02	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	117.94	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				100		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	1.82	1.17	1.16	1.39	27.39	ppb
Iron	56-2	1.23	1.11	1.11	1.15	5.95	ppb
Iron	57-2	1.78	1.47	1.71	1.65	9.78	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.03	0.03	0.03	6.74	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.04	0.03	18.69	ppb
Lead	208-1	0.03	0.03	0.03	0.03	3.56	ppb
Lithium	6-1				106		%
Magnesium	24-2	2.04	2.32	1.93	2.09	9.64	ppb
Manganese	55-2	-0.03	0.01	0.02	0.00	841.86	ppb
Molybdenum	94-1	0.10	0.09	0.09	0.09	6.76	ppb
Molybdenum	95-1	0.07	0.06	0.06	0.06	3.22	ppb
Molybdenum	96-1	0.06	0.06	0.06	0.06	3.30	ppb
Molybdenum	97-1	0.08	0.07	0.06	0.07	13.76	ppb
Molybdenum	98-1	0.06	0.05	0.06	0.06	5.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.25	-0.26	-0.23	-0.25		ppb
Phosphorus	31-2	-26.54	-18.30	-17.01	-20.62		ppb
Potassium	39-2	23.85	21.16	22.13	22.38	6.09	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	-0.14	-0.05	-0.09	-0.09		ppb
Selenium	77-2	0.32	0.00	0.00	0.11	173.21	ppb
Selenium	78-2	-0.06	0.23	-0.33	-0.05		ppb
Silicon	28-1	-0.06	-1.47	-0.30	-0.61		ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.96	ppb
Silver	109-1	0.02	0.02	0.02	0.02	1.11	ppb
Sodium	23-2	23.05	20.58	19.75	21.13	8.11	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	10.79	ppb
Sulfur	34-1	-363.90	-426.96	-465.43	-418.76		ppb
Terbium	159-1				99		%
Terbium	159-2				102		%
Thallium	203-1	0.05	0.05	0.05	0.05	5.50	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	4.28	ppb
Tin	118-1	0.00	0.01	0.00	0.01	105.07	ppb
Titanium	47-1	0.05	0.04	0.05	0.05	7.73	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	8.08	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	100.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	0.00	-0.14	0.07	-0.03		ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	17.17	ppb
Zirconium	91-1	0.03	0.02	0.03	0.02	22.34	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23.00	22.32	20.69	22.00	5.39	ppb
Antimony	121-1	2.10	2.07	2.13	2.10	1.45	ppb
Arsenic	75-2	1.02	0.99	1.00	1.01	1.55	ppb
Barium	135-1	10.50	10.46	10.50	10.49	0.22	ppb
Barium	137-1	10.65	10.45	10.62	10.57	1.06	ppb
Beryllium	9-1	0.99	1.00	1.02	1.01	1.74	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.14	1.14	1.08	1.12	3.04	ppb
Cadmium	106-1	1.11	1.21	0.88	1.07	15.89	ppb
Cadmium	111-1	1.07	1.09	1.11	1.09	1.60	ppb
Calcium	43-1	517.30	513.56	537.30	522.72	2.44	ppb
Calcium	44-1	514.83	508.00	520.86	514.56	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.23	2.15	2.17	2.18	1.80	ppb
Cobalt	59-2	1.16	1.19	1.11	1.15	3.35	ppb
Copper	63-2	2.18	2.24	2.21	2.21	1.43	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				102		%
Iron	54-2	56.92	57.74	54.79	56.48	2.70	ppb
Iron	56-2	55.65	56.26	54.03	55.31	2.09	ppb
Iron	57-2	55.58	56.27	54.53	55.46	1.58	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.94	0.93	0.93	0.52	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.96	0.94	0.97	0.96	1.53	ppb
Lead	208-1	0.96	0.96	0.95	0.96	0.33	ppb
Lithium	6-1				104		%
Magnesium	24-2	570.67	570.78	551.45	564.30	1.97	ppb
Manganese	55-2	1.07	1.08	1.07	1.08	0.48	ppb
Molybdenum	94-1	6.03	6.03	6.01	6.02	0.25	ppb
Molybdenum	95-1	4.97	4.97	4.99	4.98	0.18	ppb
Molybdenum	96-1	5.12	5.06	5.04	5.07	0.85	ppb
Molybdenum	97-1	5.04	5.10	5.08	5.07	0.63	ppb
Molybdenum	98-1	4.95	5.02	5.03	5.00	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.86	0.84	0.89	0.86	3.00	ppb
Phosphorus	31-2	6.65	10.02	12.81	9.82	31.35	ppb
Potassium	39-2	525.94	533.10	518.96	526.00	1.34	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	5.10	5.11	5.35	5.19	2.67	ppb
Selenium	77-2	6.88	8.29	5.74	6.97	18.32	ppb
Selenium	78-2	5.49	5.80	4.58	5.29	12.05	ppb
Silicon	28-1	28.61	4.41	5.46	12.83	106.68	ppb
Silver	107-1	1.05	1.05	1.07	1.06	0.75	ppb
Silver	109-1	1.07	1.06	1.06	1.06	0.83	ppb
Sodium	23-2	575.29	581.45	566.01	574.25	1.35	ppb
Strontium	86-1	1.02	1.08	1.01	1.03	3.48	ppb
Strontium	88-1	1.04	1.03	1.04	1.04	0.34	ppb
Sulfur	34-1	-452.09	-557.98	-367.98	-459.35		ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	0.98	1.00	1.00	1.00	1.14	ppb
Thallium	205-1	0.99	1.00	1.00	1.00	0.59	ppb
Tin	118-1	5.26	5.21	5.31	5.26	0.91	ppb
Titanium	47-1	5.22	5.26	5.23	5.23	0.42	ppb
Uranium	238-1	0.93	0.94	0.96	0.95	1.56	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.57	5.66	5.47	5.56	1.74	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	5.20	5.40	5.23	5.28	2.10	ppb
Zirconium	90-1	1.01	1.01	1.04	1.02	1.84	ppb
Zirconium	91-1	1.04	1.00	1.02	1.02	1.71	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.48	0.98	1.03	1.16	24.02	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	18.67	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00	186.42	ppb
Barium	135-1	0.01	0.00	0.00	0.00	235.56	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	36.39	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.01	0.01	0.01	29.28	ppb
Cadmium	106-1	-0.46	-0.38	-0.30	-0.38		ppb
Cadmium	111-1	-0.03	-0.03	-0.02	-0.03		ppb
Calcium	43-1	-8.88	-8.10	-9.46	-8.81		ppb
Calcium	44-1	-9.95	-11.00	-10.22	-10.39		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	-0.02	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.06	-0.09	-0.06	-0.07		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	0.31	0.10	0.12	0.18	66.26	ppb
Iron	56-2	0.15	0.16	0.16	0.16	5.94	ppb
Iron	57-2	0.71	0.42	0.07	0.40	80.55	ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.03	-0.03	-0.03		ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.03	-0.03	-0.03	-0.03		ppb
Lead	208-1	-0.03	-0.03	-0.03	-0.03		ppb
Lithium	6-1				102		%
Magnesium	24-2	0.56	0.13	0.34	0.35	62.04	ppb
Manganese	55-2	-0.01	-0.03	-0.01	-0.01		ppb
Molybdenum	94-1	0.02	0.02	0.03	0.02	21.26	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	19.80	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	22.09	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	28.16	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	13.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.21	-0.23	-0.21	-0.22		ppb
Phosphorus	31-2	-16.77	-17.49	-20.53	-18.27		ppb
Potassium	39-2	13.67	14.94	13.80	14.13	4.93	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	-0.13	0.10	0.16	0.04	342.62	ppb
Selenium	77-2	0.32	0.00	0.00	0.11	173.21	ppb
Selenium	78-2	0.22	-0.14	0.05	0.04	413.50	ppb
Silicon	28-1	-1.64	-2.00	-1.96	-1.87		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.90	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.93	ppb
Sodium	23-2	11.67	12.82	11.12	11.87	7.32	ppb
Strontium	86-1	0.00	0.00	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-387.66	-524.44	-481.72	-464.61		ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.02	0.02	5.08	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.60	ppb
Tin	118-1	0.01	0.03	-0.01	0.01	277.86	ppb
Titanium	47-1	0.01	0.02	0.01	0.01	29.86	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	200.82	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.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				102		%
Zinc	66-2	-0.25	-0.19	-0.36	-0.27		ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	19.27	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	12.49	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9575.33	9973.00	9686.38	9744.90	2.11	ppb
Antimony	121-1	507.71	495.67	506.02	503.13	1.30	ppb
Arsenic	75-2	497.33	496.43	497.46	497.07	0.11	ppb
Barium	135-1	2514.00	2494.74	2554.22	2520.99	1.20	ppb
Barium	137-1	2513.14	2506.50	2593.67	2537.77	1.91	ppb
Beryllium	9-1	491.27	508.87	510.36	503.50	2.11	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	506.07	507.97	508.65	507.56	0.26	ppb
Cadmium	106-1	510.28	508.12	517.82	512.07	0.99	ppb
Cadmium	111-1	517.47	499.64	520.52	512.54	2.20	ppb
Calcium	43-1	49662.28	50561.09	49625.14	49949.50	1.06	ppb
Calcium	44-1	48860.91	49808.74	49256.08	49308.58	0.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	503.07	509.23	499.87	504.06	0.94	ppb
Cobalt	59-2	503.38	509.14	507.33	506.61	0.58	ppb
Copper	63-2	5007.36	5043.58	5039.08	5030.01	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	24941.54	25704.59	25267.06	25304.40	1.51	ppb
Iron	56-2	24750.96	25671.20	25428.32	25283.49	1.89	ppb
Iron	57-2	25270.12	25781.64	25329.84	25460.53	1.10	ppb
Krypton	83-1						cps
Lead	206-1	2468.87	2436.91	2457.27	2454.35	0.66	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2469.75	2436.58	2507.88	2471.40	1.44	ppb
Lead	208-1	2468.41	2458.80	2488.89	2472.03	0.62	ppb
Lithium	6-1				101		%
Magnesium	24-2	50388.01	52108.90	51709.21	51402.04	1.75	ppb
Manganese	55-2	4937.45	5107.87	5018.06	5021.13	1.70	ppb
Molybdenum	94-1	4836.52	4857.98	4907.36	4867.29	0.75	ppb
Molybdenum	95-1	4873.20	4811.90	4916.98	4867.36	1.08	ppb
Molybdenum	96-1	4857.02	4810.50	4905.16	4857.56	0.97	ppb
Molybdenum	97-1	4908.21	4842.48	4893.40	4881.36	0.71	ppb
Molybdenum	98-1	4828.16	4839.27	4877.37	4848.27	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	506.45	516.11	501.87	508.14	1.43	ppb
Phosphorus	31-2	10502.95	10547.43	10404.13	10484.84	0.70	ppb
Potassium	39-2	23849.50	24339.70	24400.54	24196.58	1.25	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	485.21	490.52	492.72	489.48	0.79	ppb
Selenium	77-2	492.91	515.01	500.10	502.67	2.24	ppb
Selenium	78-2	492.09	501.97	493.23	495.76	1.09	ppb
Silicon	28-1	498.30	502.59	513.30	504.73	1.53	ppb
Silver	107-1	519.31	510.57	514.05	514.65	0.86	ppb
Silver	109-1	514.80	512.96	524.55	517.44	1.20	ppb
Sodium	23-2	50819.55	52102.09	51978.50	51633.38	1.37	ppb
Strontium	86-1	498.36	493.91	493.53	495.27	0.54	ppb
Strontium	88-1	497.41	488.35	491.85	492.54	0.93	ppb
Sulfur	34-1	10110.06	9955.72	9756.71	9940.83	1.78	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	490.68	491.54	492.18	491.46	0.15	ppb
Thallium	205-1	481.02	487.87	491.03	486.64	1.05	ppb
Tin	118-1	503.35	495.72	507.42	502.16	1.18	ppb
Titanium	47-1	4903.33	4942.52	4947.82	4931.22	0.49	ppb
Uranium	238-1	477.76	483.53	484.45	481.91	0.75	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.33	509.58	499.68	503.20	1.10	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	4899.16	5005.40	5032.34	4978.96	1.41	ppb
Zirconium	90-1	490.73	488.69	483.09	487.50	0.81	ppb
Zirconium	91-1	480.54	482.59	488.10	483.74	0.81	ppb

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.45	1.33	1.80	1.19	57.34	ppb
Antimony	121-1	0.04	0.04	0.03	0.04	9.86	ppb
Arsenic	75-2	0.00	0.01	0.01	0.01	105.01	ppb
Barium	135-1	0.02	0.02	0.01	0.02	17.52	ppb
Barium	137-1	0.02	0.02	0.01	0.02	28.74	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	13.96	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.03	0.01	0.03	46.57	ppb
Cadmium	106-1	0.04	0.06	-0.37	-0.09		ppb
Cadmium	111-1	0.02	0.01	-0.02	0.00	566.69	ppb
Calcium	43-1	-9.03	-9.91	-10.56	-9.83		ppb
Calcium	44-1	-9.79	-10.29	-11.23	-10.43		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.01	-0.01	0.00	1884.93	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	239.73	ppb
Copper	63-2	-0.04	-0.03	-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				100		%
Holmium	165-2				100		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	54-2	0.13	0.05	0.45	0.21	101.23	ppb
Iron	56-2	0.02	0.02	0.18	0.07	119.91	ppb
Iron	57-2	0.41	0.65	0.38	0.48	30.30	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.02	0.01	0.02	43.03	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.02	0.01	0.02	41.90	ppb
Lead	208-1	0.03	0.02	0.01	0.02	35.95	ppb
Lithium	6-1				99		%
Magnesium	24-2	0.27	0.43	0.64	0.45	40.59	ppb
Manganese	55-2	-0.01	-0.01	0.00	-0.01		ppb
Molybdenum	94-1	0.10	0.09	0.08	0.09	11.70	ppb
Molybdenum	95-1	0.06	0.06	0.05	0.06	15.24	ppb
Molybdenum	96-1	0.06	0.05	0.05	0.06	9.92	ppb
Molybdenum	97-1	0.07	0.06	0.05	0.06	11.74	ppb
Molybdenum	98-1	0.06	0.05	0.05	0.05	18.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.24	-0.25	-0.25	-0.25		ppb
Phosphorus	31-2	-22.04	-23.88	-24.34	-23.42		ppb
Potassium	39-2	14.87	15.19	14.33	14.80	2.95	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	0.21	-0.01	0.12	0.11	107.25	ppb
Selenium	77-2	0.32	0.00	0.97	0.43	114.78	ppb
Selenium	78-2	0.05	-0.52	-0.33	-0.27		ppb
Silicon	28-1	0.78	-0.53	-1.83	-0.53		ppb
Silver	107-1	0.02	0.02	0.02	0.02	10.62	ppb
Silver	109-1	0.02	0.02	0.02	0.02	16.32	ppb
Sodium	23-2	18.84	18.35	18.75	18.65	1.41	ppb
Strontium	86-1	0.00	-0.01	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	59.15	ppb
Sulfur	34-1	-693.59	-737.21	-860.75	-763.85		ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.02	0.02	0.02	5.76	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	1.52	ppb
Tin	118-1	0.00	0.01	-0.01	0.00		ppb
Titanium	47-1	0.06	0.04	0.05	0.05	19.51	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	11.42	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	300.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				101		%
Zinc	66-2	-0.32	-0.16	-0.02	-0.17		ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	16.96	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	13.38	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9821.08	9530.64	9734.00	9695.24	1.54	ppb
Antimony	121-1	524.10	515.93	503.19	514.41	2.05	ppb
Arsenic	75-2	507.56	502.19	511.64	507.13	0.93	ppb
Barium	135-1	2641.71	2569.61	2489.97	2567.09	2.96	ppb
Barium	137-1	2608.13	2558.42	2526.68	2564.41	1.60	ppb
Beryllium	9-1	514.13	522.47	518.61	518.40	0.80	ppb
Bismuth	209-1				93		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	524.95	518.22	509.59	517.59	1.49	ppb
Cadmium	106-1	525.96	527.68	506.54	520.06	2.26	ppb
Cadmium	111-1	523.48	534.19	507.58	521.75	2.57	ppb
Calcium	43-1	49671.05	50936.21	51373.28	50660.18	1.75	ppb
Calcium	44-1	50043.66	49903.26	50457.76	50134.89	0.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	503.53	506.03	499.44	503.00	0.66	ppb
Cobalt	59-2	498.53	503.47	499.53	500.51	0.52	ppb
Copper	63-2	5057.24	5080.05	5000.13	5045.81	0.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				98		%
Indium	115-1				95		%
Indium	115-2				91		%
Iron	54-2	25100.67	25383.14	25146.93	25210.25	0.60	ppb
Iron	56-2	24820.90	24726.72	24980.05	24842.55	0.52	ppb
Iron	57-2	25647.41	25160.50	25359.49	25389.13	0.96	ppb
Krypton	83-1						cps
Lead	206-1	2468.11	2486.93	2467.20	2474.08	0.45	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2480.59	2450.93	2437.62	2456.38	0.90	ppb
Lead	208-1	2488.83	2459.20	2470.64	2472.89	0.60	ppb
Lithium	6-1				96		%
Magnesium	24-2	52105.33	51142.35	51063.24	51436.97	1.13	ppb
Manganese	55-2	5012.11	4996.79	4989.10	4999.34	0.23	ppb
Molybdenum	94-1	4996.43	4843.69	4908.05	4916.06	1.56	ppb
Molybdenum	95-1	4965.81	4730.01	4894.41	4863.41	2.49	ppb
Molybdenum	96-1	4836.67	4822.26	4868.90	4842.61	0.49	ppb
Molybdenum	97-1	4911.31	4895.37	4877.11	4894.60	0.35	ppb
Molybdenum	98-1	4915.53	4832.53	4810.82	4852.96	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	508.42	503.38	491.74	501.18	1.71	ppb
Phosphorus	31-2	10616.83	10330.00	10216.24	10387.69	1.99	ppb
Potassium	39-2	24276.84	24114.61	24325.51	24238.99	0.46	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	495.56	490.24	493.05	492.95	0.54	ppb
Selenium	77-2	490.16	479.22	502.41	490.59	2.36	ppb
Selenium	78-2	503.86	500.58	515.65	506.69	1.56	ppb
Silicon	28-1	510.09	502.76	503.33	505.39	0.81	ppb
Silver	107-1	533.66	532.10	518.16	527.97	1.62	ppb
Silver	109-1	531.92	522.11	509.74	521.26	2.13	ppb
Sodium	23-2	52601.32	51655.58	51745.53	52000.81	1.00	ppb
Strontium	86-1	497.86	495.65	489.87	494.46	0.83	ppb
Strontium	88-1	500.71	486.66	489.05	492.14	1.53	ppb
Sulfur	34-1	10006.61	9630.70	9636.44	9757.92	2.21	ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	489.65	500.33	494.23	494.74	1.08	ppb
Thallium	205-1	485.41	489.55	494.23	489.73	0.90	ppb
Tin	118-1	522.27	523.03	505.05	516.79	1.97	ppb
Titanium	47-1	4994.48	4951.53	4966.64	4970.88	0.44	ppb
Uranium	238-1	484.70	475.80	482.65	481.05	0.97	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	503.82	511.53	504.23	506.53	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	4966.51	5022.30	4910.63	4966.48	1.12	ppb
Zirconium	90-1	496.11	487.65	488.86	490.88	0.93	ppb
Zirconium	91-1	494.36	480.97	493.39	489.58	1.53	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.78	1.44	0.63	0.95	45.59	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	20.10	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00	1.66	ppb
Barium	135-1	0.01	0.01	0.01	0.01	13.87	ppb
Barium	137-1	0.00	0.01	0.00	0.00	79.22	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	16.92	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.00	0.02	0.01	127.19	ppb
Cadmium	106-1	-0.32	-0.45	0.26	-0.17		ppb
Cadmium	111-1	-0.02	-0.03	0.02	-0.01		ppb
Calcium	43-1	-9.10	-7.55	-9.63	-8.76		ppb
Calcium	44-1	-10.64	-10.16	-10.07	-10.29		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.01	-0.02	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.07	-0.06	-0.07	-0.07		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				101		%
Iron	54-2	0.56	0.20	0.35	0.37	48.17	ppb
Iron	56-2	-0.04	-0.09	-0.04	-0.06		ppb
Iron	57-2	0.35	0.57	0.15	0.36	58.62	ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.01	-0.01	-0.01		ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.01	-0.01	-0.01	-0.01		ppb
Lead	208-1	-0.01	-0.01	-0.01	-0.01		ppb
Lithium	6-1				100		%
Magnesium	24-2	0.49	0.29	0.21	0.33	44.36	ppb
Manganese	55-2	0.02	-0.01	-0.02	0.00		ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	4.53	ppb
Molybdenum	95-1	0.02	0.03	0.02	0.02	16.69	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.03	13.61	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	14.17	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	18.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.24	-0.25	-0.20	-0.23		ppb
Phosphorus	31-2	-20.63	-26.25	-27.88	-24.92		ppb
Potassium	39-2	14.02	12.53	13.88	13.48	6.12	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				107		%
Scandium	45-2				103		%
Selenium	82-1	-0.06	-0.11	-0.02	-0.06		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.05	-0.43	-0.53	-0.30		ppb
Silicon	28-1	-2.17	-2.08	-1.52	-1.93		ppb
Silver	107-1	0.01	0.01	0.01	0.01	21.95	ppb
Silver	109-1	0.01	0.01	0.01	0.01	9.43	ppb
Sodium	23-2	17.31	17.44	16.74	17.16	2.18	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-787.37	-745.06	-686.80	-739.74		ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	3.34	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	5.97	ppb
Tin	118-1	0.00	0.00	-0.01	0.00	3121.56	ppb
Titanium	47-1	0.03	0.04	0.03	0.03	17.65	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	15.81	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	242.37	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				102		%
Zinc	66-2	-0.38	-0.14	-0.49	-0.34		ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	9.68	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	5.24	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12414.97	12396.11	12086.54	12299.21	1.50	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	25.64	ppb
Arsenic	75-2	0.95	0.94	0.91	0.93	2.27	ppb
Barium	135-1	25.08	25.14	25.39	25.20	0.65	ppb
Barium	137-1	25.72	25.35	25.45	25.51	0.75	ppb
Beryllium	9-1	0.11	0.11	0.11	0.11	2.93	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.12	0.06	0.08	36.83	ppb
Cadmium	106-1	1.28	1.18	0.98	1.15	13.21	ppb
Cadmium	111-1	0.17	0.16	0.15	0.16	5.86	ppb
Calcium	43-1	24161.83	25323.18	24764.66	24749.89	2.35	ppb
Calcium	44-1	23784.41	24789.44	23965.57	24179.80	2.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.69	5.84	5.63	5.72	1.95	ppb
Cobalt	59-2	25.14	25.22	25.16	25.17	0.17	ppb
Copper	63-2	18.45	18.38	18.43	18.42	0.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	68743.50	68170.87	67689.46	68201.28	0.77	ppb
Iron	56-2	68987.02	67325.70	66954.22	67755.65	1.60	ppb
Iron	57-2	68834.29	68606.86	67697.04	68379.39	0.88	ppb
Krypton	83-1						cps
Lead	206-1	0.33	0.33	0.33	0.33	0.71	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.32	0.32	0.31	0.32	2.86	ppb
Lead	208-1	0.32	0.32	0.33	0.33	1.54	ppb
Lithium	6-1				94		%
Magnesium	24-2	20514.42	20725.95	20312.44	20517.61	1.01	ppb
Manganese	55-2	718.90	709.35	701.87	710.04	1.20	ppb
Molybdenum	94-1	0.14	0.15	0.15	0.14	5.03	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	9.86	ppb
Molybdenum	96-1	0.25	0.24	0.25	0.25	2.98	ppb
Molybdenum	97-1	0.05	0.06	0.04	0.05	20.48	ppb
Molybdenum	98-1	0.04	0.03	0.03	0.03	2.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.61	26.25	26.36	26.41	0.70	ppb
Phosphorus	31-2	132.21	141.03	143.15	138.80	4.18	ppb
Potassium	39-2	513.75	505.71	507.31	508.92	0.84	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	0.52	0.56	0.58	0.55	5.83	ppb
Selenium	77-2	26.31	24.82	21.00	24.04	11.40	ppb
Selenium	78-2	4.32	3.98	4.50	4.27	6.21	ppb
Silicon	28-1	9945.07	10140.57	9282.29	9789.31	4.60	ppb
Silver	107-1	0.00	0.00	0.00	0.00	30.05	ppb
Silver	109-1	0.00	0.00	0.00	0.00	25.17	ppb
Sodium	23-2	7140.73	7173.74	6987.73	7100.73	1.40	ppb
Strontium	86-1	54.54	54.89	55.32	54.91	0.71	ppb
Strontium	88-1	56.37	57.44	56.41	56.74	1.07	ppb
Sulfur	34-1	78849.23	79593.45	77510.71	78651.13	1.34	ppb
Terbium	159-1				99		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.02	0.02	2.43	ppb
Thallium	205-1	0.01	0.01	0.02	0.01	8.09	ppb
Tin	118-1	0.08	0.06	0.08	0.07	15.28	ppb
Titanium	47-1	1.07	1.01	1.03	1.04	3.06	ppb
Uranium	238-1	0.99	0.97	0.99	0.98	1.38	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	106.08	105.17	105.27	105.51	0.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				128		%
Yttrium	89-2				132		%
Zinc	66-2	152.72	151.40	150.09	151.40	0.87	ppb
Zirconium	90-1	0.05	0.06	0.05	0.05	7.77	ppb
Zirconium	91-1	0.05	0.05	0.06	0.05	6.90	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8827.80	8708.86	8658.54	8731.74	1.00	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	19.99	ppb
Arsenic	75-2	0.87	0.91	0.88	0.89	2.29	ppb
Barium	135-1	26.30	25.68	25.74	25.90	1.31	ppb
Barium	137-1	26.56	25.63	25.62	25.94	2.09	ppb
Beryllium	9-1	0.16	0.16	0.15	0.16	2.76	ppb
Bismuth	209-1				95		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.13	0.10	0.12	10.04	ppb
Cadmium	106-1	1.88	0.86	1.45	1.40	36.52	ppb
Cadmium	111-1	0.23	0.14	0.20	0.19	22.29	ppb
Calcium	43-1	35958.76	36407.69	35379.94	35915.46	1.43	ppb
Calcium	44-1	36253.42	35716.06	35400.73	35790.07	1.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.62	2.61	2.48	2.57	3.03	ppb
Cobalt	59-2	26.90	26.40	25.94	26.41	1.81	ppb
Copper	63-2	22.49	22.00	21.95	22.15	1.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	72808.40	71350.30	69993.43	71384.05	1.97	ppb
Iron	56-2	72986.88	71202.29	70522.29	71570.48	1.78	ppb
Iron	57-2	72760.29	70768.48	70720.19	71416.32	1.63	ppb
Krypton	83-1						cps
Lead	206-1	0.31	0.30	0.30	0.30	2.06	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.27	0.29	0.28	0.28	4.09	ppb
Lead	208-1	0.30	0.29	0.29	0.29	1.63	ppb
Lithium	6-1				94		%
Magnesium	24-2	19558.12	19184.00	18666.59	19136.24	2.34	ppb
Manganese	55-2	1142.47	1102.86	1114.75	1120.02	1.81	ppb
Molybdenum	94-1	0.11	0.11	0.10	0.10	4.35	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	7.30	ppb
Molybdenum	96-1	0.25	0.25	0.24	0.25	1.31	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	5.74	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	2.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.72	23.31	22.87	23.30	1.83	ppb
Phosphorus	31-2	36.50	47.27	37.94	40.57	14.41	ppb
Potassium	39-2	541.01	535.14	527.31	534.49	1.29	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				107		%
Scandium	45-2				101		%
Selenium	82-1	0.69	0.42	0.46	0.52	27.39	ppb
Selenium	77-2	25.12	21.19	22.08	22.80	9.04	ppb
Selenium	78-2	5.64	4.31	4.24	4.73	16.74	ppb
Silicon	28-1	10564.25	10369.30	10116.64	10350.07	2.17	ppb
Silver	107-1	0.00	0.00	0.00	0.00	52.42	ppb
Silver	109-1	0.00	0.00	0.00	0.00	11.97	ppb
Sodium	23-2	8618.07	8489.46	8237.26	8448.26	2.29	ppb
Strontium	86-1	74.68	75.34	74.24	74.75	0.75	ppb
Strontium	88-1	76.51	77.38	76.40	76.76	0.70	ppb
Sulfur	34-1	81654.38	83952.72	79712.79	81773.30	2.60	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.02	0.02	0.02	8.66	ppb
Thallium	205-1	0.01	0.01	0.02	0.02	7.34	ppb
Tin	118-1	0.04	0.02	0.03	0.03	27.55	ppb
Titanium	47-1	0.92	0.94	0.86	0.91	4.45	ppb
Uranium	238-1	1.14	1.19	1.17	1.17	2.04	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	72.16	71.30	70.37	71.28	1.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				129		%
Yttrium	89-2				131		%
Zinc	66-2	149.39	147.26	146.57	147.74	1.00	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	10.35	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	5.81	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8421.24	8395.84	8205.74	8340.94	1.41	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	3.56	ppb
Arsenic	75-2	0.74	0.74	0.80	0.76	4.55	ppb
Barium	135-1	23.57	23.48	24.10	23.72	1.41	ppb
Barium	137-1	23.62	23.46	24.50	23.86	2.34	ppb
Beryllium	9-1	0.14	0.15	0.13	0.14	4.69	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.10	0.08	0.09	10.02	ppb
Cadmium	106-1	1.31	1.09	1.51	1.30	15.99	ppb
Cadmium	111-1	0.20	0.18	0.20	0.19	6.66	ppb
Calcium	43-1	35323.48	34181.97	34426.09	34643.85	1.74	ppb
Calcium	44-1	34386.35	33932.05	33962.07	34093.49	0.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.79	1.85	1.72	1.78	3.76	ppb
Cobalt	59-2	25.63	26.14	25.59	25.78	1.19	ppb
Copper	63-2	24.78	24.91	24.48	24.72	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				97		%
Iron	54-2	68870.45	70078.73	68838.26	69262.48	1.02	ppb
Iron	56-2	68908.86	69224.90	68455.80	68863.18	0.56	ppb
Iron	57-2	69174.26	69014.02	68287.39	68825.22	0.69	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.22	0.20	0.20	8.30	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.20	0.19	0.19	5.85	ppb
Lead	208-1	0.19	0.20	0.20	0.20	2.54	ppb
Lithium	6-1				98		%
Magnesium	24-2	16937.40	17115.62	16675.32	16909.45	1.31	ppb
Manganese	55-2	998.55	994.61	990.97	994.71	0.38	ppb
Molybdenum	94-1	0.07	0.09	0.09	0.09	12.26	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.03	10.05	ppb
Molybdenum	96-1	0.21	0.23	0.22	0.22	3.38	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.04	12.79	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.03	10.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.28	19.47	19.06	19.27	1.07	ppb
Phosphorus	31-2	10.67	-2.79	16.71	8.20	121.79	ppb
Potassium	39-2	566.91	566.93	550.03	561.29	1.74	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				109		%
Scandium	45-2				102		%
Selenium	82-1	0.46	0.40	0.48	0.45	9.42	ppb
Selenium	77-2	25.75	22.27	25.65	24.55	8.06	ppb
Selenium	78-2	4.36	5.10	4.22	4.56	10.39	ppb
Silicon	28-1	10341.85	9962.96	10201.15	10168.66	1.88	ppb
Silver	107-1	0.00	0.00	0.00	0.00	17.90	ppb
Silver	109-1	0.00	0.00	0.00	0.00	20.26	ppb
Sodium	23-2	9260.71	9224.22	9125.57	9203.50	0.76	ppb
Strontium	86-1	74.95	75.04	75.69	75.23	0.54	ppb
Strontium	88-1	78.58	76.57	76.71	77.29	1.46	ppb
Sulfur	34-1	77100.76	77280.44	74944.92	76442.04	1.70	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.02	0.01	0.01	15.18	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	9.46	ppb
Tin	118-1	0.03	0.09	0.04	0.05	59.84	ppb
Titanium	47-1	0.90	0.88	0.88	0.88	1.67	ppb
Uranium	238-1	1.13	1.17	1.12	1.14	2.30	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	49.56	49.18	48.90	49.21	0.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				131		%
Yttrium	89-2				132		%
Zinc	66-2	177.04	178.98	177.65	177.89	0.56	ppb
Zirconium	90-1	0.02	0.03	0.02	0.02	9.50	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	8.49	ppb

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3388.18	3443.15	3352.07	3394.47	1.35	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	13.22	ppb
Arsenic	75-2	0.43	0.54	0.48	0.48	10.89	ppb
Barium	135-1	25.06	25.43	25.07	25.19	0.84	ppb
Barium	137-1	25.66	25.79	25.67	25.71	0.29	ppb
Beryllium	9-1	0.12	0.13	0.12	0.12	2.89	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.16	0.16	0.15	11.99	ppb
Cadmium	106-1	0.57	0.49	0.34	0.46	25.36	ppb
Cadmium	111-1	0.15	0.13	0.12	0.13	10.04	ppb
Calcium	43-1	64348.67	63254.43	64597.15	64066.75	1.12	ppb
Calcium	44-1	64462.63	63519.13	64573.72	64185.16	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.35	0.34	0.37	0.36	4.93	ppb
Cobalt	59-2	24.98	25.15	24.57	24.90	1.20	ppb
Copper	63-2	17.61	17.72	17.44	17.59	0.83	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	58901.32	59133.80	57459.61	58498.24	1.55	ppb
Iron	56-2	59131.81	59272.13	58752.08	59052.01	0.46	ppb
Iron	57-2	57997.04	59477.29	57316.32	58263.55	1.90	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.10	0.10	0.10	2.80	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.10	0.10	4.62	ppb
Lead	208-1	0.09	0.10	0.10	0.10	3.12	ppb
Lithium	6-1				100		%
Magnesium	24-2	13159.91	13324.94	12677.31	13054.06	2.58	ppb
Manganese	55-2	1521.36	1531.95	1503.84	1519.05	0.93	ppb
Molybdenum	94-1	0.05	0.06	0.07	0.06	10.00	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	3.17	ppb
Molybdenum	96-1	0.21	0.20	0.21	0.21	0.86	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	6.62	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.02	10.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.39	11.48	11.15	11.34	1.51	ppb
Phosphorus	31-2	-28.42	-25.00	-19.25	-24.22		ppb
Potassium	39-2	615.70	622.65	610.79	616.38	0.97	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				108		%
Scandium	45-2				99		%
Selenium	82-1	0.36	0.27	0.53	0.39	33.25	ppb
Selenium	77-2	14.56	13.62	11.99	13.39	9.70	ppb
Selenium	78-2	3.64	3.04	2.31	3.00	22.09	ppb
Silicon	28-1	9142.03	9171.69	9110.54	9141.42	0.33	ppb
Silver	107-1	0.00	0.00	0.00	0.00	21.92	ppb
Silver	109-1	0.00	0.00	0.00	0.00	19.02	ppb
Sodium	23-2	14463.38	14713.74	14237.70	14471.61	1.65	ppb
Strontium	86-1	99.11	99.23	101.41	99.92	1.29	ppb
Strontium	88-1	100.94	102.52	102.72	102.06	0.95	ppb
Sulfur	34-1	82084.19	83450.35	83062.86	82865.80	0.85	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.02	0.02	0.02	0.02	9.11	ppb
Thallium	205-1	0.01	0.02	0.02	0.01	15.87	ppb
Tin	118-1	0.02	0.05	0.02	0.03	55.55	ppb
Titanium	47-1	0.72	0.68	0.70	0.70	3.02	ppb
Uranium	238-1	0.89	0.88	0.88	0.88	0.23	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.97	10.97	10.80	10.91	0.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				121		%
Yttrium	89-2				121		%
Zinc	66-2	167.38	168.01	165.69	167.03	0.72	ppb
Zirconium	90-1	0.01	0.02	0.02	0.01	8.48	ppb
Zirconium	91-1	0.01	0.01	0.02	0.02	7.61	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49393.43	48822.59	48862.83	49026.28	0.65	ppb
Antimony	121-1	501.68	508.16	498.89	502.91	0.95	ppb
Arsenic	75-2	500.06	498.42	506.79	501.76	0.88	ppb
Barium	135-1	2542.98	2583.93	2571.66	2566.19	0.82	ppb
Barium	137-1	2550.15	2559.91	2576.09	2562.05	0.51	ppb
Beryllium	9-1	530.40	525.24	526.51	527.38	0.51	ppb
Bismuth	209-1				86		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	492.85	497.50	496.52	495.62	0.50	ppb
Cadmium	106-1	493.03	495.85	501.43	496.77	0.86	ppb
Cadmium	111-1	498.65	485.03	492.37	492.02	1.39	ppb
Calcium	43-1	250613.48	257050.32	248429.62	252031.14	1.78	ppb
Calcium	44-1	251168.80	253460.33	247768.14	250799.09	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	514.94	518.20	516.11	516.42	0.32	ppb
Cobalt	59-2	502.83	493.50	492.93	496.42	1.12	ppb
Copper	63-2	4946.35	4925.78	4940.67	4937.60	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				95		%
Holmium	165-2				96		%
Indium	115-1				89		%
Indium	115-2				86		%
Iron	54-2	125786.50	126121.05	124476.60	125461.39	0.69	ppb
Iron	56-2	128419.92	126393.98	126659.57	127157.83	0.87	ppb
Iron	57-2	127633.22	126413.37	125523.24	126523.28	0.84	ppb
Krypton	83-1						cps
Lead	206-1	2497.48	2578.62	2582.76	2552.95	1.88	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2512.80	2601.13	2588.25	2567.39	1.86	ppb
Lead	208-1	2515.11	2585.97	2586.49	2562.53	1.60	ppb
Lithium	6-1				89		%
Magnesium	24-2	252514.60	253768.50	248941.05	251741.38	1.00	ppb
Manganese	55-2	5129.39	5099.35	5124.09	5117.61	0.31	ppb
Molybdenum	94-1	4905.07	5024.93	4998.38	4976.13	1.27	ppb
Molybdenum	95-1	4863.32	5017.78	4972.48	4951.20	1.60	ppb
Molybdenum	96-1	4836.49	5025.97	4970.73	4944.40	1.97	ppb
Molybdenum	97-1	4911.60	5082.74	5022.69	5005.68	1.73	ppb
Molybdenum	98-1	4861.31	5025.09	4963.02	4949.80	1.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	501.18	494.53	490.43	495.38	1.09	ppb
Phosphorus	31-2	10433.30	10464.61	10354.59	10417.50	0.54	ppb
Potassium	39-2	122246.73	121442.31	123443.66	122377.57	0.82	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	474.86	488.80	477.39	480.35	1.55	ppb
Selenium	77-2	493.26	493.99	494.13	493.79	0.09	ppb
Selenium	78-2	490.99	508.85	498.93	499.59	1.79	ppb
Silicon	28-1	446.80	452.29	455.94	451.68	1.02	ppb
Silver	107-1	488.61	493.48	493.22	491.77	0.56	ppb
Silver	109-1	489.64	491.75	493.92	491.77	0.44	ppb
Sodium	23-2	257561.32	260078.06	254179.63	257273.00	1.15	ppb
Strontium	86-1	502.89	509.28	509.22	507.13	0.72	ppb
Strontium	88-1	497.20	512.08	505.10	504.79	1.48	ppb
Sulfur	34-1	10225.91	10130.95	10267.45	10208.10	0.69	ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	498.61	515.11	508.40	507.37	1.63	ppb
Thallium	205-1	499.78	509.62	503.35	504.25	0.99	ppb
Tin	118-1	501.97	500.79	504.44	502.40	0.37	ppb
Titanium	47-1	4946.18	5042.74	4978.19	4989.04	0.99	ppb
Uranium	238-1	511.39	518.42	513.34	514.38	0.71	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	517.89	518.02	518.33	518.08	0.04	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	4978.70	4977.10	5019.60	4991.80	0.48	ppb
Zirconium	90-1	491.82	505.70	503.28	500.27	1.48	ppb
Zirconium	91-1	489.83	506.33	492.51	496.22	1.78	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.24	1.11	0.81	1.06	20.70	ppb
Antimony	121-1	0.10	0.08	0.07	0.09	18.04	ppb
Arsenic	75-2	0.01	0.01	0.04	0.02	108.12	ppb
Barium	135-1	0.05	0.04	0.03	0.04	20.37	ppb
Barium	137-1	0.06	0.04	0.03	0.04	34.77	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	11.49	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.05	0.02	0.03	47.47	ppb
Cadmium	106-1	-0.25	-0.09	0.07	-0.09		ppb
Cadmium	111-1	0.00	0.01	0.02	0.01	79.60	ppb
Calcium	43-1	4.76	2.34	3.10	3.40	36.36	ppb
Calcium	44-1	2.09	0.87	0.16	1.04	93.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.00	0.00	0.01	200.49	ppb
Cobalt	59-2	0.01	0.00	0.00	0.00	33.41	ppb
Copper	63-2	-0.01	-0.05	-0.02	-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				106		%
Holmium	165-2				103		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	54-2	1.41	1.49	1.38	1.43	3.97	ppb
Iron	56-2	1.45	1.29	1.33	1.35	6.44	ppb
Iron	57-2	2.67	1.82	1.12	1.87	41.36	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.04	0.03	0.05	32.25	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.04	0.03	0.05	41.76	ppb
Lead	208-1	0.07	0.05	0.03	0.05	36.92	ppb
Lithium	6-1				106		%
Magnesium	24-2	2.73	2.79	2.30	2.61	10.27	ppb
Manganese	55-2	0.04	0.04	0.04	0.04	11.34	ppb
Molybdenum	94-1	0.21	0.17	0.17	0.18	12.27	ppb
Molybdenum	95-1	0.16	0.11	0.10	0.12	25.20	ppb
Molybdenum	96-1	0.15	0.12	0.09	0.12	24.35	ppb
Molybdenum	97-1	0.15	0.13	0.09	0.12	25.62	ppb
Molybdenum	98-1	0.15	0.12	0.10	0.12	24.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.23	-0.25	-0.24	-0.24		ppb
Phosphorus	31-2	-20.75	-26.59	-24.22	-23.85		ppb
Potassium	39-2	23.72	21.37	21.53	22.20	5.92	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	-0.01	-0.11	0.09	-0.01		ppb
Selenium	77-2	0.63	0.31	0.00	0.31	100.31	ppb
Selenium	78-2	-0.25	-0.25	-0.34	-0.28		ppb
Silicon	28-1	-0.12	-0.89	-1.60	-0.87		ppb
Silver	107-1	0.05	0.04	0.04	0.04	15.56	ppb
Silver	109-1	0.05	0.04	0.04	0.04	17.37	ppb
Sodium	23-2	27.57	24.40	25.60	25.86	6.19	ppb
Strontium	86-1	0.01	0.00	0.00	0.01	90.24	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	39.47	ppb
Sulfur	34-1	-772.57	-716.40	-676.72	-721.90		ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.03	0.02	0.02	0.03	12.12	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	19.24	ppb
Tin	118-1	0.01	0.01	0.01	0.01	20.36	ppb
Titanium	47-1	0.13	0.12	0.07	0.11	30.02	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	33.15	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.01	0.00	39.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				103		%
Zinc	66-2	-0.06	-0.28	-0.15	-0.16		ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	5.54	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	7.46	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4590.08	4546.02	4491.74	4542.61	1.08	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	7.74	ppb
Arsenic	75-2	0.57	0.49	0.55	0.54	7.39	ppb
Barium	135-1	23.87	24.48	23.99	24.11	1.35	ppb
Barium	137-1	24.46	24.64	24.27	24.46	0.76	ppb
Beryllium	9-1	0.17	0.15	0.16	0.16	4.78	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.17	0.14	0.14	25.20	ppb
Cadmium	106-1	0.84	0.55	0.41	0.60	36.31	ppb
Cadmium	111-1	0.15	0.13	0.11	0.13	13.96	ppb
Calcium	43-1	61809.70	61310.35	61016.00	61378.69	0.65	ppb
Calcium	44-1	61814.55	61772.21	60977.96	61521.58	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.51	0.46	0.47	0.48	5.60	ppb
Cobalt	59-2	24.68	24.74	24.60	24.67	0.28	ppb
Copper	63-2	19.62	19.64	19.66	19.64	0.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	54-2	62099.50	61877.72	60816.42	61597.88	1.11	ppb
Iron	56-2	62303.54	61826.00	60972.39	61700.64	1.09	ppb
Iron	57-2	62824.83	61118.56	61011.19	61651.53	1.65	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.18	0.17	0.17	5.57	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.14	0.16	0.16	5.86	ppb
Lead	208-1	0.16	0.16	0.16	0.16	0.26	ppb
Lithium	6-1				102		%
Magnesium	24-2	13790.22	13648.07	13577.89	13672.06	0.79	ppb
Manganese	55-2	1441.95	1457.91	1441.18	1447.02	0.65	ppb
Molybdenum	94-1	0.09	0.10	0.10	0.10	8.31	ppb
Molybdenum	95-1	0.04	0.04	0.05	0.05	5.83	ppb
Molybdenum	96-1	0.23	0.21	0.22	0.22	4.90	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	2.27	ppb
Molybdenum	98-1	0.04	0.03	0.03	0.03	14.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.79	11.89	11.93	11.87	0.60	ppb
Phosphorus	31-2	-16.92	-17.00	-20.05	-17.99		ppb
Potassium	39-2	557.16	552.00	555.09	554.75	0.47	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				105		%
Scandium	45-2				98		%
Selenium	82-1	0.48	0.53	0.40	0.47	13.87	ppb
Selenium	77-2	19.23	15.23	14.10	16.19	16.66	ppb
Selenium	78-2	3.10	3.77	4.70	3.86	20.96	ppb
Silicon	28-1	10056.61	9727.26	9631.74	9805.21	2.27	ppb
Silver	107-1	0.01	0.01	0.01	0.01	4.16	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.13	ppb
Sodium	23-2	11910.36	12044.62	11882.04	11945.67	0.73	ppb
Strontium	86-1	96.90	93.99	95.42	95.44	1.52	ppb
Strontium	88-1	99.94	98.03	98.95	98.97	0.96	ppb
Sulfur	34-1	87486.82	84356.61	84374.28	85405.90	2.11	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.02	0.02	0.02	0.02	5.39	ppb
Thallium	205-1	0.02	0.01	0.02	0.02	11.60	ppb
Tin	118-1	0.04	0.05	0.04	0.04	16.75	ppb
Titanium	47-1	0.75	0.74	0.73	0.74	1.34	ppb
Uranium	238-1	0.87	0.89	0.90	0.89	1.89	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	17.14	16.99	17.08	17.07	0.45	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				122		%
Yttrium	89-2				118		%
Zinc	66-2	153.76	152.62	149.74	152.04	1.36	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	4.48	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	13.33	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4617.61	4578.99	4625.20	4607.26	0.54	ppb
Antimony	121-1	0.01	0.01	0.02	0.01	6.73	ppb
Arsenic	75-2	0.59	0.57	0.56	0.57	2.93	ppb
Barium	135-1	21.55	21.52	21.63	21.57	0.27	ppb
Barium	137-1	21.64	22.34	21.83	21.94	1.64	ppb
Beryllium	9-1	0.14	0.14	0.14	0.14	0.98	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.12	0.11	0.12	12.96	ppb
Cadmium	106-1	0.72	0.71	0.57	0.66	12.21	ppb
Cadmium	111-1	0.15	0.15	0.14	0.15	2.93	ppb
Calcium	43-1	75413.05	77372.46	76040.76	76275.43	1.31	ppb
Calcium	44-1	74808.53	77118.29	75932.98	75953.26	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.26	7.16	7.27	7.23	0.84	ppb
Cobalt	59-2	27.32	27.59	27.34	27.42	0.55	ppb
Copper	63-2	20.44	20.60	20.54	20.53	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	66461.60	65646.56	67078.18	66395.45	1.08	ppb
Iron	56-2	67381.60	66092.74	66790.46	66754.93	0.97	ppb
Iron	57-2	65898.06	66379.29	66513.26	66263.54	0.49	ppb
Krypton	83-1						cps
Lead	206-1	0.21	0.21	0.21	0.21	1.40	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.20	0.20	0.20	4.29	ppb
Lead	208-1	0.20	0.20	0.20	0.20	2.01	ppb
Lithium	6-1				105		%
Magnesium	24-2	16242.97	16505.71	16370.97	16373.22	0.80	ppb
Manganese	55-2	1550.55	1555.97	1570.23	1558.92	0.65	ppb
Molybdenum	94-1	0.12	0.13	0.13	0.13	1.66	ppb
Molybdenum	95-1	0.09	0.08	0.09	0.09	4.93	ppb
Molybdenum	96-1	0.27	0.27	0.26	0.27	1.82	ppb
Molybdenum	97-1	0.08	0.08	0.09	0.08	3.21	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	1.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.43	21.22	21.58	21.41	0.83	ppb
Phosphorus	31-2	-19.93	-16.76	-24.93	-20.54		ppb
Potassium	39-2	640.25	629.30	643.90	637.82	1.19	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				107		%
Scandium	45-2				99		%
Selenium	82-1	0.28	0.50	0.34	0.38	30.14	ppb
Selenium	77-2	17.41	17.15	20.64	18.40	10.56	ppb
Selenium	78-2	2.64	4.32	2.26	3.07	35.70	ppb
Silicon	28-1	9772.51	9855.59	9804.29	9810.80	0.43	ppb
Silver	107-1	0.00	0.01	0.01	0.01	7.61	ppb
Silver	109-1	0.00	0.00	0.00	0.00	16.33	ppb
Sodium	23-2	15603.08	15283.44	15604.63	15497.05	1.19	ppb
Strontium	86-1	115.82	117.78	117.89	117.16	0.99	ppb
Strontium	88-1	112.71	115.53	113.84	114.03	1.24	ppb
Sulfur	34-1	98865.62	98588.14	99989.34	99147.70	0.75	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.02	0.02	0.02	4.58	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	9.01	ppb
Tin	118-1	0.04	0.04	0.05	0.04	15.86	ppb
Titanium	47-1	0.68	0.72	0.72	0.71	3.15	ppb
Uranium	238-1	0.88	0.92	0.91	0.90	1.89	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	18.93	18.84	18.73	18.83	0.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				126		%
Yttrium	89-2				125		%
Zinc	66-2	174.11	172.95	173.34	173.47	0.34	ppb
Zirconium	90-1	0.03	0.03	0.02	0.03	5.95	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	14.43	ppb

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14.47	15.05	16.70	15.41	7.49	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	4.69	ppb
Arsenic	75-2	0.06	0.06	0.06	0.06	6.84	ppb
Barium	135-1	24.42	24.11	24.54	24.36	0.92	ppb
Barium	137-1	24.55	24.60	24.66	24.60	0.22	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	5.60	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.16	0.13	0.12	35.93	ppb
Cadmium	106-1	-0.08	-0.14	-0.46	-0.22		ppb
Cadmium	111-1	0.08	0.07	0.05	0.06	25.86	ppb
Calcium	43-1	94866.07	95882.38	97116.18	95954.87	1.17	ppb
Calcium	44-1	94990.44	95621.04	96379.61	95663.69	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.07	0.04	0.05	45.60	ppb
Cobalt	59-2	18.05	18.24	17.87	18.05	1.03	ppb
Copper	63-2	0.42	0.39	0.40	0.40	3.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				98		%
Iron	54-2	27019.05	26918.49	26291.73	26743.09	1.47	ppb
Iron	56-2	27165.74	26972.47	26393.46	26843.89	1.50	ppb
Iron	57-2	26570.92	27157.91	26914.41	26881.08	1.10	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.01	0.01	0.01	10.75	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.02	0.01	22.57	ppb
Lead	208-1	0.01	0.01	0.01	0.01	17.58	ppb
Lithium	6-1				102		%
Magnesium	24-2	10918.04	10877.38	10662.03	10819.15	1.27	ppb
Manganese	55-2	1330.32	1316.53	1289.14	1312.00	1.60	ppb
Molybdenum	94-1	0.05	0.06	0.05	0.05	4.13	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	8.32	ppb
Molybdenum	96-1	0.11	0.11	0.10	0.11	3.28	ppb
Molybdenum	97-1	0.03	0.01	0.02	0.02	28.55	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	4.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.16	10.20	9.95	10.10	1.30	ppb
Phosphorus	31-2	-22.21	-23.86	-29.07	-25.05		ppb
Potassium	39-2	575.57	578.50	569.87	574.65	0.76	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				107		%
Scandium	45-2				100		%
Selenium	82-1	0.10	0.12	0.12	0.12	9.18	ppb
Selenium	77-2	3.11	1.23	1.85	2.06	46.18	ppb
Selenium	78-2	0.48	0.74	1.20	0.81	45.37	ppb
Silicon	28-1	5530.72	5595.86	5576.58	5567.72	0.60	ppb
Silver	107-1	0.00	0.01	0.00	0.00	22.16	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.54	ppb
Sodium	23-2	20182.63	20117.44	19788.59	20029.55	1.05	ppb
Strontium	86-1	123.19	120.34	118.56	120.70	1.93	ppb
Strontium	88-1	122.15	121.00	123.50	122.22	1.02	ppb
Sulfur	34-1	84206.82	84537.64	85201.39	84648.62	0.60	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	17.17	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.30	ppb
Tin	118-1	0.03	0.02	0.03	0.03	8.88	ppb
Titanium	47-1	0.40	0.37	0.38	0.38	4.06	ppb
Uranium	238-1	0.07	0.07	0.07	0.07	4.64	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	215.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				105		%
Zinc	66-2	193.82	192.56	187.89	191.42	1.63	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	2.64	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	14.58	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3998.94	3976.15	3992.69	3989.26	0.30	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	7.58	ppb
Arsenic	75-2	0.50	0.45	0.41	0.45	10.06	ppb
Barium	135-1	22.97	23.55	23.40	23.31	1.29	ppb
Barium	137-1	23.07	23.80	23.82	23.56	1.81	ppb
Beryllium	9-1	0.12	0.11	0.11	0.11	6.11	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.12	0.14	0.12	13.82	ppb
Cadmium	106-1	0.47	0.51	0.59	0.52	11.98	ppb
Cadmium	111-1	0.11	0.14	0.15	0.13	12.53	ppb
Calcium	43-1	57041.47	58507.27	59833.84	58460.86	2.39	ppb
Calcium	44-1	56955.45	57993.14	58563.69	57837.43	1.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.52	0.55	0.52	0.53	2.89	ppb
Cobalt	59-2	22.66	22.40	22.47	22.51	0.60	ppb
Copper	63-2	17.67	17.77	17.64	17.69	0.39	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				100		%
Iron	54-2	58416.24	57434.88	57685.05	57845.39	0.88	ppb
Iron	56-2	59655.06	58810.03	58152.72	58872.60	1.28	ppb
Iron	57-2	57867.84	58139.61	57794.64	57934.03	0.31	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.12	0.12	0.12	3.50	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.12	0.12	0.12	4.15	ppb
Lead	208-1	0.12	0.12	0.12	0.12	1.16	ppb
Lithium	6-1				104		%
Magnesium	24-2	13993.01	13743.49	13963.91	13900.14	0.98	ppb
Manganese	55-2	1265.37	1251.91	1238.70	1252.00	1.07	ppb
Molybdenum	94-1	0.07	0.09	0.09	0.08	12.86	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	6.54	ppb
Molybdenum	96-1	0.22	0.22	0.21	0.22	1.40	ppb
Molybdenum	97-1	0.03	0.04	0.04	0.04	5.64	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	2.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.51	14.18	14.34	14.34	1.17	ppb
Phosphorus	31-2	-18.48	-21.72	-17.31	-19.17		ppb
Potassium	39-2	542.79	542.88	547.23	544.30	0.47	ppb
Rhodium	103-1				106		%
Rhodium	103-2				101		%
Scandium	45-1				111		%
Scandium	45-2				103		%
Selenium	82-1	0.26	0.35	0.36	0.32	16.97	ppb
Selenium	77-2	15.05	12.66	15.21	14.30	9.99	ppb
Selenium	78-2	2.77	3.61	2.67	3.02	17.18	ppb
Silicon	28-1	8745.07	8937.64	8921.63	8868.11	1.20	ppb
Silver	107-1	0.00	0.00	0.00	0.00	10.44	ppb
Silver	109-1	0.00	0.01	0.00	0.00	24.82	ppb
Sodium	23-2	14534.28	14456.78	14439.17	14476.75	0.35	ppb
Strontium	86-1	87.47	91.08	92.41	90.32	2.83	ppb
Strontium	88-1	93.10	93.65	93.96	93.57	0.47	ppb
Sulfur	34-1	78106.60	82367.34	83433.66	81302.53	3.47	ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	0.01	0.01	0.01	0.01	2.00	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.62	ppb
Tin	118-1	0.02	0.02	0.02	0.02	19.63	ppb
Titanium	47-1	0.69	0.69	0.71	0.70	1.33	ppb
Uranium	238-1	0.77	0.78	0.79	0.78	1.82	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	22.13	21.93	21.52	21.86	1.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				126		%
Yttrium	89-2				125		%
Zinc	66-2	162.54	163.37	164.43	163.45	0.58	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	8.28	ppb
Zirconium	91-1	0.02	0.02	0.03	0.02	20.32	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3539.56	3569.11	3539.14	3549.27	0.48	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	19.77	ppb
Arsenic	75-2	0.45	0.45	0.50	0.47	6.47	ppb
Barium	135-1	23.34	23.47	22.42	23.08	2.49	ppb
Barium	137-1	23.26	23.54	22.25	23.02	2.95	ppb
Beryllium	9-1	0.10	0.10	0.11	0.10	5.50	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.10	0.07	0.09	19.73	ppb
Cadmium	106-1	0.73	0.52	0.28	0.51	44.28	ppb
Cadmium	111-1	0.13	0.10	0.08	0.10	22.21	ppb
Calcium	43-1	64497.21	66037.59	65952.42	65495.74	1.32	ppb
Calcium	44-1	66105.38	65749.30	65020.50	65625.06	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.59	0.61	0.56	0.58	3.97	ppb
Cobalt	59-2	20.46	20.43	20.26	20.38	0.51	ppb
Copper	63-2	11.64	11.76	11.64	11.68	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				98		%
Iron	54-2	57912.08	57755.43	57606.72	57758.08	0.26	ppb
Iron	56-2	58047.03	58559.76	57776.07	58127.62	0.68	ppb
Iron	57-2	57671.93	57721.87	57839.88	57744.56	0.15	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.14	0.15	0.15	4.85	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.13	0.14	0.14	3.37	ppb
Lead	208-1	0.14	0.14	0.15	0.14	1.82	ppb
Lithium	6-1				101		%
Magnesium	24-2	15409.37	15453.49	15391.67	15418.18	0.21	ppb
Manganese	55-2	1487.72	1496.28	1489.00	1491.00	0.31	ppb
Molybdenum	94-1	0.13	0.11	0.12	0.12	5.10	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	8.01	ppb
Molybdenum	96-1	0.22	0.22	0.20	0.21	5.79	ppb
Molybdenum	97-1	0.05	0.05	0.04	0.05	9.20	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	1.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.93	17.98	17.81	17.90	0.49	ppb
Phosphorus	31-2	-18.39	-10.00	-11.41	-13.27		ppb
Potassium	39-2	558.88	564.07	558.91	560.62	0.53	ppb
Rhodium	103-1				104		%
Rhodium	103-2				99		%
Scandium	45-1				109		%
Scandium	45-2				99		%
Selenium	82-1	0.36	0.32	0.25	0.31	17.77	ppb
Selenium	77-2	14.68	15.37	17.25	15.77	8.44	ppb
Selenium	78-2	3.19	2.50	3.14	2.95	13.09	ppb
Silicon	28-1	8604.22	8584.22	8451.02	8546.49	0.97	ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.87	ppb
Silver	109-1	0.01	0.00	0.01	0.01	17.09	ppb
Sodium	23-2	15386.42	15614.28	15331.49	15444.06	0.97	ppb
Strontium	86-1	90.97	93.17	91.90	92.01	1.20	ppb
Strontium	88-1	94.16	96.79	96.30	95.75	1.46	ppb
Sulfur	34-1	85924.51	86505.02	86407.51	86279.01	0.36	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	13.85	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.79	ppb
Tin	118-1	0.05	0.04	0.03	0.04	31.61	ppb
Titanium	47-1	2.22	2.26	2.20	2.23	1.25	ppb
Uranium	238-1	0.72	0.71	0.74	0.72	2.23	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	33.29	33.64	33.07	33.33	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				124		%
Yttrium	89-2				120		%
Zinc	66-2	142.63	144.00	142.18	142.94	0.66	ppb
Zirconium	90-1	0.03	0.04	0.04	0.04	9.00	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	7.10	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1299.92	1296.75	1250.83	1282.50	2.14	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	5.03	ppb
Arsenic	75-2	0.40	0.36	0.36	0.37	6.48	ppb
Barium	135-1	23.27	23.25	23.48	23.33	0.54	ppb
Barium	137-1	23.16	23.01	24.33	23.50	3.08	ppb
Beryllium	9-1	0.10	0.10	0.10	0.10	2.45	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.12	0.11	0.12	6.17	ppb
Cadmium	106-1	0.25	0.40	0.35	0.34	22.65	ppb
Cadmium	111-1	0.13	0.16	0.15	0.14	9.77	ppb
Calcium	43-1	73332.81	74551.09	71630.89	73171.59	2.00	ppb
Calcium	44-1	72902.74	74303.17	71154.61	72786.84	2.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.17	0.18	0.14	0.17	12.13	ppb
Cobalt	59-2	40.81	40.58	39.89	40.43	1.19	ppb
Copper	63-2	9.96	9.82	9.63	9.80	1.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				106		%
Indium	115-2				97		%
Iron	54-2	43771.73	44031.92	43298.20	43700.62	0.85	ppb
Iron	56-2	44415.48	44152.33	43567.35	44045.05	0.99	ppb
Iron	57-2	44503.17	44274.05	42960.04	43912.42	1.90	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.04	0.04	1.26	ppb

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.05	0.03	0.04	21.99	ppb
Lead	208-1	0.04	0.05	0.04	0.04	7.87	ppb
Lithium	6-1				101		%
Magnesium	24-2	12580.87	12374.43	12239.46	12398.25	1.39	ppb
Manganese	55-2	2447.30	2411.77	2400.68	2419.92	1.01	ppb
Molybdenum	94-1	0.05	0.07	0.06	0.06	14.79	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.04	5.91	ppb
Molybdenum	96-1	0.15	0.15	0.15	0.15	3.19	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.02	24.46	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.01	6.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.58	14.83	14.55	14.65	1.04	ppb
Phosphorus	31-2	-14.60	-22.26	-15.70	-17.52		ppb
Potassium	39-2	594.43	597.95	586.58	592.98	0.98	ppb
Rhodium	103-1				104		%
Rhodium	103-2				99		%
Scandium	45-1				108		%
Scandium	45-2				98		%
Selenium	82-1	0.19	0.50	0.20	0.30	57.89	ppb
Selenium	77-2	7.88	9.62	11.82	9.77	20.23	ppb
Selenium	78-2	1.94	1.94	1.72	1.87	6.90	ppb
Silicon	28-1	7754.36	8056.78	7870.23	7893.79	1.93	ppb
Silver	107-1	0.00	0.00	0.00	0.00	21.02	ppb
Silver	109-1	0.00	0.00	0.00	0.00	27.41	ppb
Sodium	23-2	11491.88	11451.23	11391.39	11444.83	0.44	ppb
Strontium	86-1	127.37	128.93	127.78	128.03	0.63	ppb
Strontium	88-1	123.98	127.10	125.09	125.39	1.26	ppb
Sulfur	34-1	76991.53	80240.95	76912.46	78048.31	2.43	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	7.41	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.71	ppb
Tin	118-1	0.03	0.21	0.03	0.09	117.91	ppb
Titanium	47-1	0.54	0.59	0.54	0.56	4.98	ppb
Uranium	238-1	0.51	0.52	0.51	0.51	0.99	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.00	2.98	2.98	2.99	0.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				123		%
Yttrium	89-2				111		%
Zinc	66-2	163.64	163.87	159.27	162.26	1.60	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	14.21	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	23.14	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1301.95	1284.25	1294.34	1293.51	0.69	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	33.79	ppb
Arsenic	75-2	0.39	0.33	0.37	0.36	8.66	ppb
Barium	135-1	23.14	22.60	23.37	23.03	1.71	ppb
Barium	137-1	23.68	23.08	23.60	23.45	1.39	ppb
Beryllium	9-1	0.10	0.10	0.10	0.10	1.82	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.13	0.17	0.14	21.58	ppb
Cadmium	106-1	0.21	0.42	0.40	0.35	33.59	ppb
Cadmium	111-1	0.13	0.14	0.15	0.14	5.58	ppb
Calcium	43-1	73426.13	74926.69	73656.30	74003.04	1.09	ppb
Calcium	44-1	73616.00	74033.68	73732.95	73794.21	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.20	0.17	0.16	0.18	11.43	ppb
Cobalt	59-2	41.08	41.18	40.42	40.89	1.01	ppb
Copper	63-2	9.96	9.91	9.78	9.88	0.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	54-2	44215.09	44549.59	43578.44	44114.37	1.12	ppb
Iron	56-2	44184.33	44220.78	44355.88	44253.66	0.20	ppb
Iron	57-2	44679.66	44819.19	43869.48	44456.11	1.15	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.05	0.06	0.06	8.96	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.05	0.06	0.05	9.18	ppb
Lead	208-1	0.06	0.05	0.06	0.06	6.86	ppb
Lithium	6-1				100		%
Magnesium	24-2	12528.22	12582.03	12458.18	12522.81	0.50	ppb
Manganese	55-2	2440.98	2425.71	2437.50	2434.73	0.33	ppb
Molybdenum	94-1	0.06	0.07	0.07	0.07	7.14	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.03	3.22	ppb
Molybdenum	96-1	0.15	0.15	0.16	0.15	4.76	ppb
Molybdenum	97-1	0.03	0.03	0.02	0.02	20.27	ppb
Molybdenum	98-1	0.02	0.01	0.02	0.02	10.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.87	14.85	14.56	14.76	1.18	ppb
Phosphorus	31-2	-24.99	-22.72	-25.43	-24.38		ppb
Potassium	39-2	600.17	601.48	596.34	599.33	0.45	ppb
Rhodium	103-1				103		%
Rhodium	103-2				99		%
Scandium	45-1				107		%
Scandium	45-2				98		%
Selenium	82-1	0.34	0.41	0.44	0.40	13.27	ppb
Selenium	77-2	10.91	9.13	8.26	9.43	14.35	ppb
Selenium	78-2	1.71	2.32	2.15	2.06	15.19	ppb
Silicon	28-1	8074.89	7983.86	7866.26	7975.01	1.31	ppb
Silver	107-1	0.00	0.00	0.00	0.00	32.22	ppb
Silver	109-1	0.00	0.00	0.00	0.00	17.53	ppb
Sodium	23-2	11543.59	11565.60	11365.05	11491.41	0.96	ppb
Strontium	86-1	131.26	130.96	131.90	131.37	0.37	ppb
Strontium	88-1	127.27	128.09	128.62	127.99	0.53	ppb
Sulfur	34-1	77305.51	80485.86	80461.63	79417.67	2.30	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.01	0.01	8.87	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.69	ppb
Tin	118-1	0.03	0.03	0.03	0.03	10.56	ppb
Titanium	47-1	0.55	0.55	0.54	0.55	1.07	ppb
Uranium	238-1	0.51	0.51	0.52	0.51	1.94	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.95	3.01	3.01	2.99	1.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				110		%
Zinc	66-2	164.25	162.67	162.59	163.17	0.57	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	2.80	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	29.72	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	261.39	263.98	267.89	264.42	1.24	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	7.91	ppb
Arsenic	75-2	0.08	0.07	0.09	0.08	14.42	ppb
Barium	135-1	4.77	4.72	4.73	4.74	0.57	ppb
Barium	137-1	4.70	4.75	4.74	4.73	0.52	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	22.58	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.03	0.03	0.03	18.60	ppb
Cadmium	106-1	-0.05	-0.03	-0.23	-0.10		ppb
Cadmium	111-1	0.02	0.03	0.01	0.02	43.73	ppb
Calcium	43-1	15481.43	15083.90	15640.51	15401.95	1.86	ppb
Calcium	44-1	15116.50	14980.46	15175.10	15090.69	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.03	0.03	0.03	26.51	ppb
Cobalt	59-2	8.30	8.44	8.43	8.39	0.98	ppb
Copper	63-2	1.93	2.01	1.99	1.98	2.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				106		%
Indium	115-2				98		%
Iron	54-2	9013.40	9231.85	9129.55	9124.93	1.20	ppb
Iron	56-2	8945.09	9175.03	9064.80	9061.64	1.27	ppb
Iron	57-2	8682.57	8807.10	8757.09	8748.92	0.72	ppb
Krypton	83-1						cps
Lead	206-1	-0.02	-0.02	-0.03	-0.02		ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.03	-0.03	-0.03	-0.03		ppb
Lead	208-1	-0.02	-0.02	-0.02	-0.02		ppb
Lithium	6-1				102		%
Magnesium	24-2	2529.85	2585.78	2588.96	2568.20	1.29	ppb
Manganese	55-2	496.29	507.67	500.57	501.51	1.15	ppb
Molybdenum	94-1	0.03	0.03	0.02	0.03	19.41	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	11.65	ppb
Molybdenum	96-1	0.03	0.04	0.04	0.04	11.09	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	18.70	ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	33.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.77	2.88	2.90	2.85	2.37	ppb
Phosphorus	31-2	-24.08	-24.54	-22.00	-23.54		ppb
Potassium	39-2	122.59	128.63	132.10	127.77	3.77	ppb
Rhodium	103-1				106		%
Rhodium	103-2				102		%
Scandium	45-1				108		%
Scandium	45-2				99		%
Selenium	82-1	0.12	0.22	-0.03	0.10	123.92	ppb
Selenium	77-2	1.26	3.20	3.89	2.78	49.02	ppb
Selenium	78-2	0.59	-0.05	-0.52	0.01	6264.18	ppb
Silicon	28-1	1627.92	1654.11	1633.10	1638.38	0.85	ppb
Silver	107-1	0.00	0.00	0.00	0.00	31.47	ppb
Silver	109-1	0.00	0.00	0.01	0.00	5.60	ppb
Sodium	23-2	2358.97	2383.95	2407.28	2383.40	1.01	ppb
Strontium	86-1	27.02	27.22	27.57	27.27	1.02	ppb
Strontium	88-1	28.76	28.39	28.73	28.63	0.71	ppb
Sulfur	34-1	15360.85	15843.67	15184.26	15462.93	2.21	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	12.30	ppb
Thallium	205-1	0.00	0.00	0.01	0.00	13.16	ppb
Tin	118-1	0.00	0.00	0.00	0.00	369.91	ppb
Titanium	47-1	0.11	0.10	0.14	0.12	21.00	ppb
Uranium	238-1	0.10	0.10	0.10	0.10	1.76	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.58	0.61	0.58	0.59	2.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				102		%
Zinc	66-2	32.00	31.97	32.35	32.11	0.66	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	20.23	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	16.96	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49013.39	49688.97	49780.95	49494.44	0.85	ppb
Antimony	121-1	499.02	509.15	512.95	507.04	1.42	ppb
Arsenic	75-2	500.19	498.17	503.26	500.54	0.51	ppb
Barium	135-1	2520.32	2604.52	2606.89	2577.24	1.91	ppb
Barium	137-1	2527.15	2578.11	2587.03	2564.10	1.26	ppb
Beryllium	9-1	526.90	521.78	506.65	518.44	2.03	ppb
Bismuth	209-1				87		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	492.94	498.77	498.48	496.73	0.66	ppb
Cadmium	106-1	493.68	494.17	500.62	496.15	0.78	ppb
Cadmium	111-1	493.30	506.55	501.91	500.59	1.34	ppb
Calcium	43-1	257393.10	250418.10	247933.12	251914.77	1.95	ppb
Calcium	44-1	251922.90	250399.03	248139.45	250153.79	0.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	535.87	532.34	539.36	535.86	0.66	ppb
Cobalt	59-2	506.24	514.76	512.73	511.24	0.87	ppb
Copper	63-2	5103.64	5136.48	5176.68	5138.93	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				97		%
Holmium	165-2				94		%
Indium	115-1				89		%
Indium	115-2				82		%
Iron	54-2	130115.43	129828.36	130699.04	130214.27	0.34	ppb
Iron	56-2	129664.81	129455.50	131871.85	130330.72	1.03	ppb
Iron	57-2	128707.19	130931.63	130289.84	129976.22	0.88	ppb
Krypton	83-1						cps
Lead	206-1	2566.28	2558.96	2638.02	2587.75	1.69	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2568.79	2595.86	2650.13	2604.93	1.59	ppb
Lead	208-1	2571.20	2593.91	2629.20	2598.10	1.12	ppb
Lithium	6-1				91		%
Magnesium	24-2	254397.73	258162.45	254968.12	255842.77	0.79	ppb
Manganese	55-2	5248.93	5277.14	5297.64	5274.57	0.46	ppb
Molybdenum	94-1	5091.50	5003.68	5099.28	5064.82	1.05	ppb
Molybdenum	95-1	5021.49	4987.96	5114.71	5041.39	1.30	ppb
Molybdenum	96-1	5040.52	4983.06	5075.43	5033.00	0.93	ppb
Molybdenum	97-1	5072.72	5035.46	5127.02	5078.40	0.91	ppb
Molybdenum	98-1	4988.06	4987.77	5099.68	5025.17	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	504.78	508.70	508.08	507.19	0.41	ppb
Phosphorus	31-2	10256.24	10258.27	10375.11	10296.54	0.66	ppb
Potassium	39-2	121850.17	122589.65	123959.49	122799.77	0.87	ppb
Rhodium	103-1				88		%
Rhodium	103-2				85		%
Scandium	45-1				96		%
Scandium	45-2				92		%
Selenium	82-1	480.21	474.95	487.35	480.83	1.29	ppb
Selenium	77-2	527.33	508.46	487.38	507.72	3.94	ppb
Selenium	78-2	492.39	488.72	494.96	492.02	0.64	ppb
Silicon	28-1	449.65	459.12	450.19	452.99	1.17	ppb
Silver	107-1	490.94	492.71	494.18	492.61	0.33	ppb
Silver	109-1	488.61	498.84	498.57	495.34	1.18	ppb
Sodium	23-2	258772.53	257743.05	260825.49	259113.69	0.61	ppb
Strontium	86-1	507.32	514.91	512.43	511.56	0.76	ppb
Strontium	88-1	508.60	506.98	509.33	508.30	0.24	ppb
Sulfur	34-1	10114.48	10050.16	9503.03	9889.22	3.40	ppb
Terbium	159-1				96		%
Terbium	159-2				95		%
Thallium	203-1	521.21	512.99	519.48	517.89	0.84	ppb
Thallium	205-1	513.76	511.78	519.43	514.99	0.77	ppb
Tin	118-1	501.38	507.30	512.21	506.96	1.07	ppb
Titanium	47-1	5058.37	5064.31	5012.37	5045.02	0.56	ppb
Uranium	238-1	517.30	524.14	523.66	521.70	0.73	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	529.62	527.34	536.52	531.16	0.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				92		%
Zinc	66-2	5105.90	5142.95	5259.32	5169.39	1.55	ppb
Zirconium	90-1	515.85	509.83	509.85	511.84	0.68	ppb
Zirconium	91-1	506.95	498.36	508.23	504.51	1.06	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.16	0.27	0.69	0.71	62.78	ppb
Antimony	121-1	0.11	0.09	0.07	0.09	19.80	ppb
Arsenic	75-2	0.00	0.01	0.00	0.00	141.36	ppb
Barium	135-1	0.06	0.05	0.04	0.05	15.41	ppb
Barium	137-1	0.05	0.04	0.03	0.04	24.33	ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	15.93	ppb
Bismuth	209-1				106		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	0.01	0.03	73.34	ppb
Cadmium	106-1	-0.35	-0.08	-0.53	-0.32		ppb
Cadmium	111-1	-0.01	0.01	-0.03	-0.01		ppb
Calcium	43-1	2.03	1.31	-0.17	1.06	106.06	ppb
Calcium	44-1	-1.04	-1.62	-2.41	-1.69		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.00	0.02	0.01	149.33	ppb
Cobalt	59-2	0.00	0.01	0.00	0.00	34.27	ppb
Copper	63-2	-0.01	-0.03	-0.03	-0.02		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				106		%
Indium	115-2				98		%
Iron	54-2	1.85	1.57	1.72	1.71	8.19	ppb
Iron	56-2	1.65	1.48	1.55	1.56	5.43	ppb
Iron	57-2	2.40	1.27	1.68	1.78	32.09	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.04	0.03	0.04	32.59	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.05	0.03	0.05	30.03	ppb
Lead	208-1	0.06	0.04	0.03	0.04	31.45	ppb
Lithium	6-1				108		%
Magnesium	24-2	2.90	2.63	2.35	2.63	10.59	ppb
Manganese	55-2	0.04	0.06	0.05	0.05	25.47	ppb
Molybdenum	94-1	0.23	0.18	0.16	0.19	19.18	ppb
Molybdenum	95-1	0.17	0.14	0.12	0.15	15.92	ppb
Molybdenum	96-1	0.16	0.12	0.10	0.13	25.02	ppb
Molybdenum	97-1	0.17	0.12	0.11	0.13	25.86	ppb
Molybdenum	98-1	0.16	0.12	0.09	0.12	28.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.24	-0.23	-0.23	-0.23		ppb
Phosphorus	31-2	-27.61	-23.16	-27.13	-25.96		ppb
Potassium	39-2	27.49	25.61	26.46	26.52	3.55	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				102		%
Scandium	45-2				94		%
Selenium	82-1	-0.15	-0.01	0.28	0.04	539.68	ppb
Selenium	77-2	0.34	0.00	0.00	0.11	173.21	ppb
Selenium	78-2	-0.10	-0.50	-0.01	-0.20		ppb
Silicon	28-1	-1.90	-1.07	-2.29	-1.75		ppb
Silver	107-1	0.06	0.04	0.04	0.05	20.18	ppb
Silver	109-1	0.06	0.05	0.04	0.05	21.30	ppb
Sodium	23-2	27.01	26.73	25.41	26.39	3.23	ppb
Strontium	86-1	0.01	-0.01	0.01	0.00	181.53	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	23.88	ppb
Sulfur	34-1	-1009.76	-897.36	-921.16	-942.76		ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.03	0.03	0.03	8.15	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	14.38	ppb
Tin	118-1	0.01	0.01	0.00	0.01	79.87	ppb
Titanium	47-1	0.12	0.09	0.07	0.10	25.77	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	25.97	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.00	0.00	46.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				97		%
Zinc	66-2	-0.22	-0.41	-0.28	-0.30		ppb
Zirconium	90-1	0.05	0.04	0.05	0.05	16.28	ppb
Zirconium	91-1	0.05	0.04	0.04	0.04	9.06	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3068.19	3084.37	3138.08	3096.88	1.18	ppb
Antimony	121-1	99.99	98.41	96.08	98.16	2.00	ppb
Arsenic	75-2	0.39	0.34	0.33	0.35	10.19	ppb
Barium	135-1	470.49	477.75	461.93	470.06	1.69	ppb
Barium	137-1	467.40	471.54	457.79	465.57	1.51	ppb
Beryllium	9-1	98.85	95.84	97.13	97.27	1.56	ppb
Bismuth	209-1				100		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	94.68	92.14	92.57	93.13	1.46	ppb
Cadmium	106-1	98.60	96.99	94.35	96.64	2.22	ppb
Cadmium	111-1	96.16	94.55	92.82	94.51	1.76	ppb
Calcium	43-1	79881.33	80337.32	78297.37	79505.34	1.35	ppb
Calcium	44-1	79755.44	79476.20	77336.76	78856.14	1.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	98.35	98.39	100.09	98.94	1.00	ppb
Cobalt	59-2	145.51	147.07	147.82	146.80	0.80	ppb
Copper	63-2	1089.16	1060.03	1065.24	1071.48	1.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				95		%
Iron	54-2	46479.82	46718.65	48128.01	47108.83	1.89	ppb
Iron	56-2	46796.55	48003.25	47878.94	47559.58	1.40	ppb
Iron	57-2	46926.04	47154.89	47605.14	47228.69	0.73	ppb
Krypton	83-1						cps
Lead	206-1	491.54	473.38	484.14	483.02	1.89	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	499.20	484.70	489.92	491.27	1.49	ppb
Lead	208-1	494.51	481.71	487.07	487.76	1.32	ppb
Lithium	6-1				104		%
Magnesium	24-2	22268.88	22099.68	22322.28	22230.28	0.52	ppb
Manganese	55-2	3367.89	3401.73	3456.05	3408.56	1.30	ppb
Molybdenum	94-1	396.95	399.23	412.63	402.94	2.10	ppb
Molybdenum	95-1	303.58	302.45	313.15	306.39	1.92	ppb
Molybdenum	96-1	313.40	312.79	322.97	316.39	1.80	ppb
Molybdenum	97-1	301.97	310.76	320.86	311.20	3.04	ppb
Molybdenum	98-1	307.87	308.74	312.51	309.71	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	110.22	111.59	112.16	111.32	0.90	ppb
Phosphorus	31-2	-19.42	-14.34	-23.87	-19.21		ppb
Potassium	39-2	5005.88	5003.41	4990.04	4999.78	0.17	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				105		%
Scandium	45-2				95		%
Selenium	82-1	84.21	86.40	88.50	86.37	2.48	ppb
Selenium	77-2	98.54	105.23	98.73	100.83	3.78	ppb
Selenium	78-2	91.87	96.94	88.94	92.58	4.37	ppb
Silicon	28-1	7553.25	7591.29	7590.00	7578.18	0.29	ppb
Silver	107-1	16.22	15.78	15.90	15.97	1.40	ppb
Silver	109-1	15.95	16.19	15.53	15.89	2.09	ppb
Sodium	23-2	21159.62	21232.46	21189.12	21193.74	0.17	ppb
Strontium	86-1	221.61	235.45	230.55	229.20	3.06	ppb
Strontium	88-1	219.73	228.99	227.52	225.41	2.21	ppb
Sulfur	34-1	74005.15	75198.25	72974.06	74059.15	1.50	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	98.99	96.11	98.59	97.90	1.59	ppb
Thallium	205-1	96.68	93.61	95.07	95.12	1.62	ppb
Tin	118-1	90.97	88.91	88.87	89.58	1.34	ppb
Titanium	47-1	0.87	0.87	0.89	0.87	1.32	ppb
Uranium	238-1	92.63	92.75	90.66	92.02	1.27	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	105.89	105.52	107.79	106.40	1.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				109		%
Zinc	66-2	1190.09	1174.80	1193.70	1186.20	0.85	ppb
Zirconium	90-1	84.77	85.44	84.68	84.96	0.49	ppb
Zirconium	91-1	80.07	81.89	81.58	81.18	1.20	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3051.25	3074.04	3030.79	3052.03	0.71	ppb
Antimony	121-1	99.37	99.29	99.85	99.50	0.30	ppb
Arsenic	75-2	0.33	0.32	0.50	0.38	25.86	ppb
Barium	135-1	477.09	483.49	489.75	483.44	1.31	ppb
Barium	137-1	479.08	480.98	475.95	478.67	0.53	ppb
Beryllium	9-1	98.42	100.28	98.45	99.05	1.08	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	93.33	95.18	94.16	94.22	0.98	ppb
Cadmium	106-1	100.47	99.96	100.42	100.29	0.28	ppb
Cadmium	111-1	97.58	97.42	97.05	97.35	0.28	ppb
Calcium	43-1	80139.64	81231.22	81781.29	81050.72	1.03	ppb
Calcium	44-1	80445.36	82005.13	80075.47	80841.99	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	97.61	99.14	97.58	98.11	0.91	ppb
Cobalt	59-2	147.40	144.27	149.07	146.92	1.66	ppb
Copper	63-2	1067.49	1068.23	1069.57	1068.43	0.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	46635.62	46550.24	46238.85	46474.91	0.45	ppb
Iron	56-2	47175.47	46954.76	46111.62	46747.28	1.20	ppb
Iron	57-2	46216.34	46863.70	46925.64	46668.56	0.84	ppb
Krypton	83-1						cps
Lead	206-1	479.78	482.57	489.30	483.88	1.01	ppb

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LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	483.02	491.98	496.87	490.62	1.43	ppb
Lead	208-1	483.62	489.93	491.21	488.25	0.83	ppb
Lithium	6-1				102		%
Magnesium	24-2	21977.58	22349.49	21682.38	22003.15	1.52	ppb
Manganese	55-2	3366.93	3359.07	3331.37	3352.46	0.56	ppb
Molybdenum	94-1	410.43	423.60	411.62	415.22	1.75	ppb
Molybdenum	95-1	314.76	318.48	307.44	313.56	1.79	ppb
Molybdenum	96-1	318.46	326.41	319.38	321.42	1.35	ppb
Molybdenum	97-1	313.19	325.55	310.30	316.34	2.56	ppb
Molybdenum	98-1	307.94	316.16	305.64	309.91	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	111.41	111.06	112.50	111.66	0.67	ppb
Phosphorus	31-2	-19.91	-24.88	-21.64	-22.14		ppb
Potassium	39-2	5063.31	4981.50	4993.74	5012.85	0.88	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				105		%
Scandium	45-2				97		%
Selenium	82-1	88.31	89.79	86.96	88.35	1.60	ppb
Selenium	77-2	101.36	94.43	94.90	96.90	3.99	ppb
Selenium	78-2	100.50	93.61	94.81	96.31	3.82	ppb
Silicon	28-1	7680.97	7720.11	7720.93	7707.34	0.30	ppb
Silver	107-1	16.29	16.68	16.40	16.46	1.21	ppb
Silver	109-1	16.21	16.37	16.65	16.41	1.36	ppb
Sodium	23-2	21342.45	21152.80	20863.09	21119.45	1.14	ppb
Strontium	86-1	230.00	232.58	225.84	229.47	1.48	ppb
Strontium	88-1	224.99	230.53	228.71	228.08	1.24	ppb
Sulfur	34-1	74938.89	75478.53	76598.89	75672.10	1.12	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	97.76	98.76	99.42	98.64	0.85	ppb
Thallium	205-1	95.71	97.19	96.53	96.48	0.77	ppb
Tin	118-1	90.23	90.29	90.62	90.38	0.23	ppb
Titanium	47-1	0.83	0.85	0.90	0.86	4.29	ppb
Uranium	238-1	93.08	94.52	92.76	93.46	1.00	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	105.49	106.75	104.39	105.54	1.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				110		%
Zinc	66-2	1169.06	1174.58	1174.67	1172.77	0.27	ppb
Zirconium	90-1	85.69	86.89	86.29	86.29	0.70	ppb
Zirconium	91-1	82.18	84.19	81.69	82.69	1.60	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3146.32	3150.97	3096.70	3131.33	0.96	ppb
Antimony	121-1	101.66	103.01	102.25	102.30	0.66	ppb
Arsenic	75-2	0.39	0.40	0.42	0.40	3.98	ppb
Barium	135-1	478.88	488.33	482.44	483.22	0.99	ppb
Barium	137-1	469.76	477.49	476.33	474.53	0.88	ppb
Beryllium	9-1	102.18	98.93	103.81	101.64	2.44	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	96.07	96.94	94.78	95.93	1.13	ppb
Cadmium	106-1	98.74	100.87	100.08	99.89	1.07	ppb
Cadmium	111-1	97.94	97.94	96.80	97.56	0.68	ppb
Calcium	43-1	83786.73	82225.90	82767.50	82926.71	0.96	ppb
Calcium	44-1	83167.20	80765.61	81268.97	81733.93	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.46	100.05	97.85	99.45	1.41	ppb
Cobalt	59-2	150.35	149.93	149.22	149.83	0.38	ppb
Copper	63-2	1109.51	1106.85	1091.20	1102.52	0.90	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				94		%
Iron	54-2	48687.86	47899.27	46170.97	47586.03	2.71	ppb
Iron	56-2	48327.07	47545.87	47138.49	47670.48	1.27	ppb
Iron	57-2	47656.09	47725.29	46932.89	47438.09	0.93	ppb
Krypton	83-1						cps
Lead	206-1	481.67	489.13	481.49	484.10	0.90	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	490.33	496.19	501.45	495.99	1.12	ppb
Lead	208-1	488.90	493.17	495.39	492.48	0.67	ppb
Lithium	6-1				100		%
Magnesium	24-2	22924.83	22569.08	22258.05	22583.99	1.48	ppb
Manganese	55-2	3470.71	3450.75	3364.52	3428.66	1.65	ppb
Molybdenum	94-1	412.73	433.15	410.04	418.64	3.02	ppb
Molybdenum	95-1	313.85	327.51	315.32	318.89	2.35	ppb
Molybdenum	96-1	325.24	331.75	323.63	326.87	1.32	ppb
Molybdenum	97-1	317.07	324.51	318.73	320.10	1.22	ppb
Molybdenum	98-1	313.74	321.82	316.65	317.40	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	112.36	114.09	113.68	113.38	0.80	ppb
Phosphorus	31-2	-15.16	-30.78	-12.46	-19.46		ppb
Potassium	39-2	5166.03	5192.86	5037.92	5132.27	1.61	ppb
Rhodium	103-1				99		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				97		%
Selenium	82-1	90.13	91.67	85.73	89.18	3.46	ppb
Selenium	77-2	100.77	109.36	95.08	101.73	7.07	ppb
Selenium	78-2	92.61	94.69	91.82	93.04	1.59	ppb
Silicon	28-1	8136.92	7912.53	7821.14	7956.86	2.04	ppb
Silver	107-1	16.54	16.63	16.38	16.52	0.78	ppb
Silver	109-1	16.53	16.40	16.35	16.43	0.56	ppb
Sodium	23-2	21816.93	21700.30	21283.49	21600.24	1.30	ppb
Strontium	86-1	234.52	233.14	233.77	233.81	0.30	ppb
Strontium	88-1	232.22	229.81	228.37	230.13	0.84	ppb
Sulfur	34-1	79378.24	76912.96	78144.52	78145.24	1.58	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	100.47	99.39	98.59	99.49	0.95	ppb
Thallium	205-1	96.74	96.59	97.22	96.85	0.34	ppb
Tin	118-1	90.84	94.20	92.62	92.55	1.82	ppb
Titanium	47-1	0.87	0.89	0.87	0.88	1.05	ppb
Uranium	238-1	94.03	94.38	95.04	94.49	0.54	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	109.03	108.48	106.42	107.98	1.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				117		%
Yttrium	89-2				110		%
Zinc	66-2	1206.86	1189.31	1168.80	1188.33	1.60	ppb
Zirconium	90-1	87.28	89.07	86.47	87.60	1.52	ppb
Zirconium	91-1	82.68	85.14	82.12	83.32	1.93	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6146.37	6077.56	6031.31	6085.08	0.95	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	5.38	ppb
Arsenic	75-2	0.62	0.51	0.46	0.53	15.39	ppb
Barium	135-1	12.41	12.44	12.59	12.48	0.76	ppb
Barium	137-1	12.54	12.72	12.60	12.62	0.72	ppb
Beryllium	9-1	0.07	0.07	0.07	0.07	4.76	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.08	0.09	0.08	21.44	ppb
Cadmium	106-1	0.34	0.41	0.40	0.39	9.51	ppb
Cadmium	111-1	0.07	0.07	0.07	0.07	3.31	ppb
Calcium	43-1	12537.20	12682.04	12462.28	12560.51	0.89	ppb
Calcium	44-1	12297.02	12631.91	12489.70	12472.88	1.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.92	2.90	2.89	2.90	0.56	ppb
Cobalt	59-2	13.17	13.07	13.11	13.12	0.36	ppb
Copper	63-2	9.73	9.51	9.65	9.63	1.16	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				99		%
Iron	54-2	35683.78	35264.31	35026.34	35324.81	0.94	ppb
Iron	56-2	35844.75	35522.21	35064.14	35477.03	1.11	ppb
Iron	57-2	35795.28	35505.25	34809.32	35369.95	1.43	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.20	0.20	0.20	1.98	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.18	0.18	0.18	1.27	ppb
Lead	208-1	0.19	0.19	0.19	0.19	2.13	ppb
Lithium	6-1				102		%
Magnesium	24-2	10442.93	10303.17	10126.55	10290.88	1.54	ppb
Manganese	55-2	356.16	349.16	347.42	350.91	1.32	ppb
Molybdenum	94-1	0.21	0.19	0.18	0.19	6.17	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	1.86	ppb
Molybdenum	96-1	0.16	0.16	0.16	0.16	0.79	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.03	7.69	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	4.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.58	13.66	13.72	13.65	0.53	ppb
Phosphorus	31-2	61.20	65.72	57.96	61.63	6.32	ppb
Potassium	39-2	262.37	261.86	263.22	262.48	0.26	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				108		%
Scandium	45-2				101		%
Selenium	82-1	0.18	0.35	0.17	0.23	42.79	ppb
Selenium	77-2	12.64	14.05	12.95	13.21	5.59	ppb
Selenium	78-2	3.64	2.32	2.93	2.96	22.44	ppb
Silicon	28-1	4789.85	4919.91	4828.63	4846.13	1.38	ppb
Silver	107-1	0.02	0.02	0.02	0.02	16.92	ppb
Silver	109-1	0.02	0.02	0.01	0.02	21.07	ppb
Sodium	23-2	3604.98	3588.10	3544.88	3579.32	0.87	ppb
Strontium	86-1	30.35	31.03	30.18	30.52	1.47	ppb
Strontium	88-1	32.04	32.13	31.32	31.83	1.40	ppb
Sulfur	34-1	38950.59	39625.46	39921.42	39499.15	1.26	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.06	0.06	0.06	0.06	2.76	ppb
Thallium	205-1	0.07	0.06	0.06	0.06	5.83	ppb
Tin	118-1	0.03	0.03	0.03	0.03	8.42	ppb
Titanium	47-1	0.53	0.51	0.49	0.51	4.09	ppb
Uranium	238-1	0.50	0.50	0.50	0.50	0.50	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	54.73	53.81	53.73	54.09	1.02	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	78.82	77.47	77.09	77.79	1.17	ppb
Zirconium	90-1	0.08	0.08	0.08	0.08	4.46	ppb
Zirconium	91-1	0.09	0.08	0.08	0.08	6.25	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4411.49	4450.04	4322.79	4394.77	1.48	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	10.87	ppb
Arsenic	75-2	0.54	0.47	0.47	0.49	7.54	ppb
Barium	135-1	12.71	12.50	12.74	12.65	1.01	ppb
Barium	137-1	12.80	12.66	12.66	12.71	0.63	ppb
Beryllium	9-1	0.08	0.08	0.09	0.08	5.51	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.06	0.05	0.05	11.84	ppb
Cadmium	106-1	0.47	0.50	0.46	0.48	3.87	ppb
Cadmium	111-1	0.07	0.08	0.08	0.08	4.67	ppb
Calcium	43-1	18354.71	19077.39	18525.06	18652.39	2.03	ppb
Calcium	44-1	18525.55	18321.03	18149.67	18332.08	1.03	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.28	1.34	1.30	1.31	2.20	ppb
Cobalt	59-2	13.60	13.64	13.31	13.52	1.33	ppb
Copper	63-2	11.58	11.48	11.27	11.44	1.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				105		%
Indium	115-2				99		%
Iron	54-2	37430.47	37132.45	36735.20	37099.37	0.94	ppb
Iron	56-2	37536.63	37150.88	36636.16	37107.89	1.22	ppb
Iron	57-2	37261.31	36865.52	36323.58	36816.80	1.28	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.14	0.14	0.14	3.22	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.14	0.13	0.13	4.58	ppb
Lead	208-1	0.14	0.14	0.13	0.14	1.39	ppb
Lithium	6-1				103		%
Magnesium	24-2	9816.78	9889.07	9490.17	9732.01	2.18	ppb
Manganese	55-2	597.36	588.97	596.80	594.38	0.79	ppb
Molybdenum	94-1	0.10	0.11	0.11	0.11	4.61	ppb
Molybdenum	95-1	0.03	0.02	0.03	0.03	14.89	ppb
Molybdenum	96-1	0.16	0.14	0.14	0.15	7.10	ppb
Molybdenum	97-1	0.02	0.03	0.03	0.02	6.44	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	2.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.83	12.03	11.79	11.88	1.08	ppb
Phosphorus	31-2	2.57	1.79	2.87	2.41	23.01	ppb
Potassium	39-2	272.26	272.90	272.51	272.55	0.12	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				108		%
Scandium	45-2				101		%
Selenium	82-1	0.26	0.31	0.32	0.30	11.60	ppb
Selenium	77-2	12.62	14.25	14.52	13.80	7.44	ppb
Selenium	78-2	2.90	2.25	2.04	2.40	18.75	ppb
Silicon	28-1	5295.04	5323.77	5137.04	5251.95	1.91	ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.38	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.32	ppb
Sodium	23-2	4248.02	4273.54	4198.34	4239.97	0.90	ppb
Strontium	86-1	42.45	40.67	40.64	41.25	2.51	ppb
Strontium	88-1	43.84	42.06	42.86	42.92	2.08	ppb
Sulfur	34-1	41960.54	41392.98	39426.53	40926.68	3.25	ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	0.04	0.04	0.04	0.04	5.02	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	3.55	ppb
Tin	118-1	0.00	0.02	0.01	0.01	69.51	ppb
Titanium	47-1	0.47	0.46	0.42	0.45	6.22	ppb
Uranium	238-1	0.60	0.58	0.58	0.59	1.51	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	36.25	36.83	35.80	36.29	1.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				118		%
Zinc	66-2	76.69	77.51	75.12	76.44	1.59	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	7.16	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	2.81	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4304.57	4266.08	4180.09	4250.25	1.50	ppb
Antimony	121-1	9.09	9.13	9.16	9.13	0.39	ppb
Arsenic	75-2	0.65	0.63	0.61	0.63	3.36	ppb
Barium	135-1	12.46	12.72	12.48	12.56	1.16	ppb
Barium	137-1	12.46	12.61	12.70	12.59	0.98	ppb
Beryllium	9-1	0.69	0.67	0.68	0.68	1.26	ppb
Bismuth	209-1				102		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.63	0.61	0.62	0.62	1.39	ppb
Cadmium	106-1	0.84	0.63	1.05	0.84	25.16	ppb
Cadmium	111-1	0.73	0.75	0.72	0.73	2.18	ppb
Calcium	43-1	18004.79	17954.49	17607.40	17855.56	1.21	ppb
Calcium	44-1	17756.16	17436.63	17462.26	17551.68	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.52	1.52	1.48	1.51	1.66	ppb
Cobalt	59-2	14.10	14.11	14.06	14.09	0.20	ppb
Copper	63-2	13.82	13.37	13.61	13.60	1.63	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				106		%
Holmium	165-2				102		%
Indium	115-1				107		%
Indium	115-2				100		%
Iron	54-2	35844.56	35884.61	35589.14	35772.77	0.45	ppb
Iron	56-2	36032.94	36154.36	35776.02	35987.78	0.54	ppb
Iron	57-2	36676.32	36072.82	35385.98	36045.04	1.79	ppb
Krypton	83-1						cps
Lead	206-1	2.85	2.79	2.82	2.82	1.04	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.83	2.79	2.84	2.82	0.99	ppb
Lead	208-1	2.86	2.83	2.83	2.84	0.70	ppb
Lithium	6-1				103		%
Magnesium	24-2	8874.36	8667.36	8697.83	8746.52	1.28	ppb
Manganese	55-2	519.88	526.73	527.81	524.81	0.82	ppb
Molybdenum	94-1	0.35	0.38	0.36	0.36	3.64	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.03	20.62	ppb
Molybdenum	96-1	0.19	0.17	0.18	0.18	4.85	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	5.44	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	1.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.28	11.06	11.14	11.16	0.98	ppb
Phosphorus	31-2	96.01	113.79	80.27	96.69	17.35	ppb
Potassium	39-2	422.35	419.08	418.75	420.06	0.47	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				110		%
Scandium	45-2				102		%
Selenium	82-1	0.45	0.38	0.48	0.44	12.75	ppb
Selenium	77-2	10.26	12.06	13.32	11.88	12.94	ppb
Selenium	78-2	2.44	2.50	3.19	2.71	15.39	ppb
Silicon	28-1	5162.16	5255.81	5155.17	5191.05	1.08	ppb
Silver	107-1	0.01	0.01	0.01	0.01	7.72	ppb
Silver	109-1	0.01	0.01	0.01	0.01	10.26	ppb
Sodium	23-2	4693.54	4689.54	4661.75	4681.61	0.37	ppb
Strontium	86-1	41.83	41.65	41.71	41.73	0.22	ppb
Strontium	88-1	43.43	43.25	42.99	43.22	0.52	ppb
Sulfur	34-1	37048.27	37445.59	38670.73	37721.53	2.24	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.66	0.64	0.67	0.66	2.11	ppb
Thallium	205-1	0.68	0.64	0.66	0.66	3.23	ppb
Tin	118-1	0.01	0.01	0.02	0.01	5.08	ppb
Titanium	47-1	0.52	0.53	0.50	0.51	2.99	ppb
Uranium	238-1	0.57	0.57	0.57	0.57	0.26	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	25.96	25.60	25.68	25.74	0.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				122		%
Yttrium	89-2				121		%
Zinc	66-2	118.09	118.58	119.91	118.86	0.79	ppb
Zirconium	90-1	0.16	0.17	0.17	0.17	4.53	ppb
Zirconium	91-1	0.17	0.19	0.18	0.18	5.22	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2357.27	2360.44	2338.29	2352.00	0.51	ppb
Antimony	121-1	18.47	18.52	18.42	18.47	0.28	ppb
Arsenic	75-2	0.89	0.72	0.83	0.81	10.75	ppb
Barium	135-1	12.06	12.08	12.03	12.06	0.22	ppb
Barium	137-1	12.13	12.07	11.95	12.05	0.77	ppb
Beryllium	9-1	1.34	1.38	1.34	1.35	1.61	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.41	1.28	1.16	1.28	9.84	ppb
Cadmium	106-1	1.74	1.27	1.41	1.47	16.61	ppb
Cadmium	111-1	1.47	1.45	1.47	1.46	0.59	ppb
Calcium	43-1	38992.04	38045.62	38380.26	38472.64	1.25	ppb
Calcium	44-1	38148.28	38639.35	38684.96	38490.87	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.98	5.06	5.05	5.03	0.80	ppb
Cobalt	59-2	15.63	15.94	15.69	15.75	1.05	ppb
Copper	63-2	12.07	12.26	12.49	12.27	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				106		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				98		%
Iron	54-2	34573.73	34277.65	34473.45	34441.61	0.44	ppb
Iron	56-2	34739.19	35168.24	34756.11	34887.85	0.70	ppb
Iron	57-2	34359.85	35473.91	34344.88	34726.21	1.86	ppb
Krypton	83-1						cps
Lead	206-1	5.21	5.42	5.30	5.31	1.98	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.26	5.36	5.27	5.30	1.09	ppb
Lead	208-1	5.26	5.42	5.26	5.31	1.81	ppb
Lithium	6-1				103		%
Magnesium	24-2	8362.18	8481.54	8412.71	8418.81	0.71	ppb
Manganese	55-2	803.58	824.56	812.10	813.41	1.30	ppb
Molybdenum	94-1	0.39	0.40	0.38	0.39	2.88	ppb
Molybdenum	95-1	0.08	0.08	0.09	0.08	7.17	ppb
Molybdenum	96-1	0.21	0.21	0.22	0.21	1.84	ppb
Molybdenum	97-1	0.08	0.08	0.07	0.08	4.15	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	2.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.76	13.81	13.91	13.83	0.58	ppb
Phosphorus	31-2	175.52	178.67	192.57	182.25	4.98	ppb
Potassium	39-2	579.83	593.82	599.47	591.04	1.71	ppb
Rhodium	103-1				105		%
Rhodium	103-2				101		%
Scandium	45-1				108		%
Scandium	45-2				98		%
Selenium	82-1	0.82	0.56	0.47	0.62	29.10	ppb
Selenium	77-2	8.37	9.82	10.74	9.65	12.40	ppb
Selenium	78-2	2.55	2.35	2.27	2.39	5.84	ppb
Silicon	28-1	5017.83	4871.03	4928.22	4939.03	1.50	ppb
Silver	107-1	0.01	0.02	0.02	0.02	16.40	ppb
Silver	109-1	0.02	0.02	0.02	0.02	10.37	ppb
Sodium	23-2	7815.38	8000.98	7835.67	7884.01	1.29	ppb
Strontium	86-1	61.30	60.49	60.35	60.72	0.85	ppb
Strontium	88-1	63.55	63.51	63.02	63.36	0.47	ppb
Sulfur	34-1	51000.53	48328.39	49041.09	49456.67	2.80	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	1.08	1.10	1.06	1.08	1.50	ppb
Thallium	205-1	1.07	1.09	1.08	1.08	0.94	ppb
Tin	118-1	0.03	0.02	0.03	0.02	32.93	ppb
Titanium	47-1	0.54	0.53	0.55	0.54	2.30	ppb
Uranium	238-1	0.44	0.46	0.46	0.45	2.25	ppb

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.89	11.19	10.96	11.01	1.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				109		%
Zinc	66-2	148.50	151.54	150.47	150.17	1.03	ppb
Zirconium	90-1	0.17	0.18	0.17	0.17	2.93	ppb
Zirconium	91-1	0.18	0.18	0.18	0.18	0.81	ppb

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2028.08	2062.74	2011.07	2033.96	1.29	ppb
Antimony	121-1	17.59	18.06	17.76	17.80	1.36	ppb
Arsenic	75-2	1.18	1.26	1.31	1.25	4.93	ppb
Barium	135-1	13.71	13.41	13.43	13.52	1.25	ppb
Barium	137-1	13.67	13.76	13.66	13.69	0.41	ppb
Beryllium	9-1	1.76	1.76	1.78	1.77	0.51	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.42	1.47	1.48	1.46	2.16	ppb
Cadmium	106-1	1.46	1.62	1.89	1.66	13.28	ppb
Cadmium	111-1	1.75	1.77	1.75	1.76	0.59	ppb
Calcium	43-1	29637.51	29970.84	30226.27	29944.87	0.99	ppb
Calcium	44-1	29303.18	29805.78	29834.35	29647.77	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.85	1.89	1.89	1.88	1.47	ppb
Cobalt	59-2	13.32	13.65	13.32	13.43	1.43	ppb
Copper	63-2	10.90	11.10	10.92	10.97	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				101		%
Indium	115-1				106		%
Indium	115-2				97		%
Iron	54-2	29242.76	30254.94	29494.84	29664.18	1.78	ppb
Iron	56-2	29455.72	30423.74	29703.16	29860.87	1.68	ppb
Iron	57-2	29690.59	30588.73	29758.97	30012.76	1.67	ppb
Krypton	83-1						cps
Lead	206-1	6.84	6.82	6.80	6.82	0.31	ppb

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.75	6.82	6.80	6.79	0.54	ppb
Lead	208-1	6.86	6.83	6.84	6.84	0.21	ppb
Lithium	6-1				101		%
Magnesium	24-2	7179.30	7302.09	7139.82	7207.07	1.17	ppb
Manganese	55-2	643.67	658.05	638.50	646.74	1.57	ppb
Molybdenum	94-1	0.28	0.30	0.29	0.29	4.63	ppb
Molybdenum	95-1	0.08	0.08	0.07	0.08	4.55	ppb
Molybdenum	96-1	0.18	0.18	0.19	0.19	3.35	ppb
Molybdenum	97-1	0.07	0.07	0.07	0.07	3.45	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	1.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.66	10.82	10.69	10.72	0.78	ppb
Phosphorus	31-2	170.96	192.37	174.70	179.34	6.38	ppb
Potassium	39-2	528.10	537.04	528.94	531.36	0.93	ppb
Rhodium	103-1				105		%
Rhodium	103-2				100		%
Scandium	45-1				108		%
Scandium	45-2				98		%
Selenium	82-1	1.28	1.39	1.28	1.31	5.09	ppb
Selenium	77-2	6.66	6.97	7.33	6.99	4.78	ppb
Selenium	78-2	2.95	2.78	2.80	2.84	3.31	ppb
Silicon	28-1	4449.29	4476.28	4474.72	4466.77	0.34	ppb
Silver	107-1	0.04	0.04	0.04	0.04	3.32	ppb
Silver	109-1	0.04	0.04	0.04	0.04	1.52	ppb
Sodium	23-2	7525.96	7609.57	7503.78	7546.44	0.74	ppb
Strontium	86-1	48.48	50.29	48.76	49.17	1.98	ppb
Strontium	88-1	50.25	50.57	50.58	50.47	0.37	ppb
Sulfur	34-1	40652.51	41010.98	40662.56	40775.35	0.50	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	1.28	1.28	1.27	1.28	0.51	ppb
Thallium	205-1	1.28	1.27	1.29	1.28	0.71	ppb
Tin	118-1	0.05	0.02	0.02	0.03	52.67	ppb
Titanium	47-1	0.52	0.52	0.54	0.53	1.88	ppb
Uranium	238-1	0.38	0.38	0.38	0.38	0.51	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.79	12.96	12.59	12.78	1.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				107		%
Zinc	66-2	155.11	160.37	155.39	156.96	1.89	ppb
Zirconium	90-1	0.11	0.12	0.11	0.11	7.70	ppb
Zirconium	91-1	0.11	0.13	0.11	0.12	12.73	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48862.58	48600.36	49483.38	48982.11	0.93	ppb
Antimony	121-1	504.89	515.30	499.09	506.43	1.62	ppb
Arsenic	75-2	492.71	503.40	499.80	498.64	1.09	ppb
Barium	135-1	2576.27	2611.31	2525.98	2571.18	1.67	ppb
Barium	137-1	2555.54	2576.62	2519.41	2550.52	1.13	ppb
Beryllium	9-1	528.78	514.31	510.64	517.91	1.85	ppb
Bismuth	209-1				88		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	492.26	490.21	483.66	488.71	0.92	ppb
Cadmium	106-1	499.88	500.87	489.61	496.79	1.26	ppb
Cadmium	111-1	503.16	494.29	489.75	495.73	1.38	ppb
Calcium	43-1	244704.75	244821.32	245994.06	245173.38	0.29	ppb
Calcium	44-1	243561.45	240963.17	243862.22	242795.61	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.58	519.78	532.84	525.73	1.26	ppb
Cobalt	59-2	518.68	498.88	506.32	507.96	1.97	ppb
Copper	63-2	4976.48	4877.92	5028.24	4960.88	1.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				95		%
Indium	115-1				91		%
Indium	115-2				83		%
Iron	54-2	125630.80	123995.71	127128.32	125584.94	1.25	ppb
Iron	56-2	127141.73	125466.01	127008.39	126538.71	0.74	ppb
Iron	57-2	125803.00	124082.74	126616.81	125500.85	1.03	ppb
Krypton	83-1						cps
Lead	206-1	2500.40	2513.23	2573.18	2528.93	1.54	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2508.15	2501.75	2553.91	2521.27	1.13	ppb
Lead	208-1	2510.55	2532.30	2565.92	2536.26	1.10	ppb
Lithium	6-1				91		%
Magnesium	24-2	254549.31	248442.71	256404.63	253132.21	1.65	ppb
Manganese	55-2	5212.08	5150.31	5259.80	5207.40	1.05	ppb
Molybdenum	94-1	4928.86	4961.46	5012.60	4967.64	0.85	ppb
Molybdenum	95-1	4815.78	4865.62	5026.80	4902.73	2.25	ppb
Molybdenum	96-1	4860.67	4835.74	5001.95	4899.45	1.83	ppb
Molybdenum	97-1	4995.29	4914.16	5077.95	4995.80	1.64	ppb
Molybdenum	98-1	4933.20	4834.79	5135.63	4967.87	3.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.89	493.74	502.60	500.74	1.26	ppb
Phosphorus	31-2	10391.31	9966.66	10268.68	10208.88	2.14	ppb
Potassium	39-2	122150.51	120103.93	122986.84	121747.09	1.22	ppb
Rhodium	103-1				90		%
Rhodium	103-2				87		%
Scandium	45-1				98		%
Scandium	45-2				93		%
Selenium	82-1	472.34	466.70	488.06	475.70	2.33	ppb
Selenium	77-2	477.68	489.71	509.04	492.14	3.21	ppb
Selenium	78-2	497.11	488.43	498.66	494.73	1.11	ppb
Silicon	28-1	487.14	478.74	495.62	487.17	1.73	ppb
Silver	107-1	496.48	492.02	485.50	491.33	1.12	ppb
Silver	109-1	498.14	491.57	485.65	491.79	1.27	ppb
Sodium	23-2	252659.62	250612.00	255181.22	252817.62	0.91	ppb
Strontium	86-1	505.33	509.15	516.65	510.38	1.13	ppb
Strontium	88-1	497.35	498.97	507.25	501.19	1.06	ppb
Sulfur	34-1	10240.88	10023.35	9741.01	10001.75	2.51	ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	498.08	499.34	509.49	502.30	1.25	ppb
Thallium	205-1	497.64	500.13	505.43	501.07	0.79	ppb
Tin	118-1	507.33	508.84	503.20	506.45	0.58	ppb
Titanium	47-1	4971.41	4960.09	4960.71	4964.07	0.13	ppb
Uranium	238-1	503.61	511.19	511.70	508.83	0.89	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	532.68	523.38	536.85	530.97	1.30	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				93		%
Zinc	66-2	4961.22	4978.31	5104.83	5014.79	1.56	ppb
Zirconium	90-1	495.33	499.71	501.28	498.77	0.62	ppb
Zirconium	91-1	488.17	492.63	505.80	495.53	1.85	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.08	0.19	0.26	0.13	140.50	ppb
Antimony	121-1	0.05	0.04	0.04	0.05	6.14	ppb
Arsenic	75-2	0.01	0.02	0.00	0.01	89.37	ppb
Barium	135-1	0.02	0.02	0.01	0.02	23.92	ppb
Barium	137-1	0.01	0.02	0.02	0.02	33.08	ppb
Beryllium	9-1	0.02	0.02	0.01	0.02	23.87	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.00	0.01	0.02	113.80	ppb
Cadmium	106-1	-0.05	-0.20	-0.24	-0.16		ppb
Cadmium	111-1	0.01	-0.01	-0.01	0.00		ppb
Calcium	43-1	-6.12	-8.03	-5.27	-6.47		ppb
Calcium	44-1	-9.05	-10.28	-8.96	-9.43		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.02	0.00	0.02	80.35	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	95.06	ppb
Copper	63-2	-0.07	-0.08	-0.08	-0.08		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				100		%
Iron	54-2	1.16	1.67	1.18	1.34	21.42	ppb
Iron	56-2	0.92	0.98	0.88	0.93	5.12	ppb
Iron	57-2	1.69	1.84	0.91	1.48	33.54	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.00	0.00	0.00	211.14	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.00	0.00	201.05	ppb
Lead	208-1	0.01	0.01	0.00	0.01	139.80	ppb
Lithium	6-1				108		%
Magnesium	24-2	1.17	1.56	1.36	1.36	14.59	ppb
Manganese	55-2	0.06	0.05	0.09	0.06	37.19	ppb
Molybdenum	94-1	0.16	0.12	0.11	0.13	17.79	ppb
Molybdenum	95-1	0.09	0.08	0.07	0.08	14.21	ppb
Molybdenum	96-1	0.07	0.06	0.05	0.06	15.38	ppb
Molybdenum	97-1	0.07	0.06	0.04	0.06	26.23	ppb
Molybdenum	98-1	0.07	0.05	0.05	0.06	25.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.24	-0.24	-0.27	-0.25		ppb
Phosphorus	31-2	-19.86	-23.85	-26.33	-23.35		ppb
Potassium	39-2	24.85	26.34	24.35	25.18	4.12	ppb
Rhodium	103-1				108		%
Rhodium	103-2				104		%
Scandium	45-1				106		%
Scandium	45-2				99		%
Selenium	82-1	-0.08	-0.20	-0.06	-0.12		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.32	0.05	0.24	-0.01		ppb
Silicon	28-1	-2.68	-2.55	-3.08	-2.77		ppb
Silver	107-1	0.03	0.02	0.02	0.02	17.77	ppb
Silver	109-1	0.02	0.02	0.02	0.02	10.05	ppb
Sodium	23-2	28.55	29.48	25.91	27.98	6.62	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	31.75	ppb
Sulfur	34-1	-790.82	-813.78	-693.29	-765.96		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.02	0.02	10.61	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.41	ppb
Tin	118-1	-0.01	0.01	0.00	0.00		ppb
Titanium	47-1	0.05	0.03	0.05	0.04	29.72	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	20.93	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	237.10	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				101		%
Zinc	66-2	-0.92	-0.99	-0.95	-0.96		ppb
Zirconium	90-1	0.04	0.04	0.03	0.04	7.07	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	11.42	ppb

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	510	390	397	432	15.60	cps
Antimony	121-1	140	63	97	100	38.44	cps
Arsenic	75-2	0	3	10	4	114.60	cps
Barium	135-1	170	103	187	153	28.76	cps
Barium	137-1	300	293	297	297	1.12	cps
Beryllium	9-1	91	92	94	93	1.53	cps
Bismuth	209-1	5362259	5439011	5413623	5404964	0.72	cps
Bismuth	209-2	2603233	2657391	2609894	2623506	1.13	cps
Bromine	81-1	29324	28800	29404	29176	1.13	cps
Cadmium	108-1	10	7	20	12	56.76	cps
Cadmium	106-1	5124	5418	5131	5224	3.21	cps
Cadmium	111-1	3600	3804	3594	3666	3.26	cps
Calcium	43-1	2337	2324	2404	2355	1.82	cps
Calcium	44-1	61611	60828	61146	61195	0.64	cps
Carbon	12-1	4098003	3969007	3841044	3969351	3.24	cps
Carbon	12-2	26093	26524	26694	26437	1.17	cps
Chlorine	35-1	129197	128840	128726	128921	0.19	cps
Chlorine	35-2	593	563	627	594	5.33	cps
Chromium	52-2	1767	1863	1657	1762	5.87	cps
Cobalt	59-2	107	167	113	129	25.52	cps
Copper	63-2	3530	3427	3541	3499	1.79	cps
Dysprosium	156-1	20	27	17	21	24.12	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	87	47	63	66	30.65	cps
Erbium	164-2	17	10	13	13	25.01	cps
Gadolinium	160-1	80	87	77	81	6.28	cps
Gadolinium	160-2	27	3	20	17	72.13	cps
Holmium	165-1	8940261	9002761	9051027	8998016	0.62	cps
Holmium	165-2	3689113	3719166	3707381	3705220	0.41	cps
Indium	115-1	7985082	8078257	8089972	8051103	0.71	cps
Indium	115-2	955112	956633	959100	956949	0.21	cps
Iron	54-2	980	1060	1023	1021	3.92	cps
Iron	56-2	13089	13056	13336	13161	1.16	cps
Iron	57-2	217	277	297	263	15.81	cps
Krypton	83-1	387	350	380	372	5.25	cps
Lead	206-1	2064	1997	1927	1996	3.42	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1720	1847	1677	1748	5.05	cps
Lead	208-1	7754	8161	7618	7844	3.60	cps
Lithium	6-1	2604013	2566306	2538480	2569600	1.28	cps
Magnesium	24-2	723	657	573	651	11.54	cps
Manganese	55-2	1123	1033	1080	1079	4.17	cps
Molybdenum	94-1	440	573	510	508	13.14	cps
Molybdenum	95-1	273	197	200	223	19.40	cps
Molybdenum	96-1	280	327	333	313	9.27	cps
Molybdenum	97-1	130	137	110	126	11.05	cps
Molybdenum	98-1	343	300	350	331	8.20	cps
Neodymium	150-1	10	7	13	10	33.30	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1930	1970	1907	1936	1.66	cps
Phosphorus	31-2	193	110	150	151	27.58	cps
Potassium	39-2	19924	19860	20501	20095	1.76	cps
Rhodium	103-1	7588948	7569240	7619048	7592412	0.33	cps
Rhodium	103-2	3415007	3369167	3408216	3397464	0.73	cps
Scandium	45-1	5518729	5562489	5427110	5502776	1.26	cps
Scandium	45-2	130055	129857	127644	129186	1.04	cps
Selenium	82-1	7	53	-30	10	417.79	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	57	23	23	34	55.89	cps
Silicon	28-1	558408	562349	550231	556996	1.11	cps
Silver	107-1	183	100	140	141	29.54	cps
Silver	109-1	60	43	43	49	19.69	cps
Sodium	23-2	57068	57734	56030	56944	1.51	cps
Strontium	86-1	630	720	723	691	7.66	cps
Strontium	88-1	920	890	963	924	3.99	cps
Sulfur	34-1	769445	769159	767764	768789	0.12	cps
Terbium	159-1	9285944	9362010	9500397	9382784	1.16	cps
Terbium	159-2	3612668	3631573	3581007	3608416	0.71	cps
Thallium	203-1	157	103	120	127	21.54	cps
Thallium	205-1	323	317	340	327	3.68	cps
Tin	118-1	4397	4107	4044	4183	4.51	cps
Titanium	47-1	357	337	333	342	3.69	cps
Uranium	238-1	137	157	133	142	8.87	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:55:33	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	27	33	29	13.31	cps
Ytterbium	172-1	27	67	67	53	43.30	cps
Ytterbium	172-2	30	13	30	24	39.37	cps
Ytterbium	176-1	1160	1233	1180	1191	3.18	cps
Ytterbium	176-2	377	383	373	378	1.35	cps
Yttrium	89-1	14555724	14701741	14639390	14632285	0.50	cps
Yttrium	89-2	1238714	1240609	1239017	1239447	0.08	cps
Zinc	66-2	3584	3407	3534	3508	2.60	cps
Zirconium	90-1	1040	1007	1003	1017	1.99	cps
Zirconium	91-1	167	230	193	197	16.17	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3357	3364	3330	3350	0.53	cps
Antimony	121-1	65405	66464	66109	65993	0.82	cps
Arsenic	75-2	850	830	827	836	1.51	cps
Barium	135-1	79434	78922	79572	79309	0.43	cps
Barium	137-1	134346	137174	135979	135833	1.05	cps
Beryllium	9-1	8468	8721	8621	8603	1.48	cps
Bismuth	209-1	5395798	5404320	5387179	5395765	0.16	cps
Bismuth	209-2	2624208	2647969	2580930	2617702	1.30	cps
Bromine	81-1	28776	29294	29033	29035	0.89	cps
Cadmium	108-1	680	723	717	707	3.30	cps
Cadmium	106-1	6322	6532	6155	6336	2.98	cps
Cadmium	111-1	12475	12669	12203	12449	1.88	cps
Calcium	43-1	57819	60660	58632	59037	2.48	cps
Calcium	44-1	989352	997132	988880	991788	0.47	cps
Carbon	12-1	4480133	4331794	4205499	4339142	3.17	cps
Carbon	12-2	28855	29172	28578	28868	1.03	cps
Chlorine	35-1	137129	137129	136634	136964	0.21	cps
Chlorine	35-2	643	620	627	630	1.91	cps
Chromium	52-2	18789	18949	18505	18748	1.20	cps
Cobalt	59-2	16677	16934	16600	16737	1.04	cps
Copper	63-2	29297	29240	28966	29168	0.61	cps
Dysprosium	156-1	27	20	10	19	44.42	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Erbium	164-1	40	60	67	56	24.98	cps
Erbium	164-2	40	13	17	23	62.27	cps
Gadolinium	160-1	70	73	67	70	4.76	cps
Gadolinium	160-2	23	27	30	27	12.51	cps
Holmium	165-1	9085500	8946194	9023276	9018323	0.77	cps
Holmium	165-2	3742274	3710189	3696963	3716475	0.63	cps
Indium	115-1	7917682	8122357	8135148	8058396	1.51	cps
Indium	115-2	965580	960304	957353	961079	0.43	cps
Iron	54-2	19019	19510	18359	18963	3.05	cps
Iron	56-2	341390	337914	327785	335696	2.11	cps
Iron	57-2	8319	8643	8403	8455	1.99	cps
Krypton	83-1	450	343	360	384	14.93	cps
Lead	206-1	23401	22864	23411	23225	1.35	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19735	20202	20376	20105	1.65	cps
Lead	208-1	91596	91760	92656	92004	0.62	cps
Lithium	6-1	2542007	2584680	2597273	2574653	1.13	cps
Magnesium	24-2	255621	256530	245349	252500	2.46	cps
Manganese	55-2	4881	4751	4574	4735	3.25	cps
Molybdenum	94-1	70762	73044	72223	72009	1.60	cps
Molybdenum	95-1	85229	85544	87271	86015	1.28	cps
Molybdenum	96-1	95036	96469	95784	95763	0.75	cps
Molybdenum	97-1	53687	53891	54724	54100	1.02	cps
Molybdenum	98-1	137655	139432	138770	138619	0.65	cps
Neodymium	150-1	17	23	13	18	28.64	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	5488	5574	5388	5483	1.70	cps
Phosphorus	31-2	400	370	373	381	4.31	cps
Potassium	39-2	192229	192351	187198	190592	1.54	cps
Rhodium	103-1	7598489	7772036	7780083	7716869	1.33	cps
Rhodium	103-2	3415112	3411699	3409021	3411944	0.09	cps
Scandium	45-1	5503319	5592187	5511529	5535678	0.89	cps
Scandium	45-2	131602	128350	130328	130094	1.26	cps
Selenium	82-1	2590	2860	2780	2744	5.06	cps
Selenium	77-2	53	67	37	52	28.78	cps
Selenium	78-2	207	243	173	208	16.85	cps
Silicon	28-1	702099	723069	709650	711606	1.49	cps
Silver	107-1	41840	41703	41686	41743	0.20	cps
Silver	109-1	39246	39149	40035	39476	1.23	cps
Sodium	23-2	567044	567469	548308	560940	1.95	cps
Strontium	86-1	12119	12262	11838	12073	1.78	cps
Strontium	88-1	99958	100347	101096	100467	0.58	cps
Sulfur	34-1	764319	770064	760868	765084	0.61	cps
Terbium	159-1	9303624	9242862	9569101	9371862	1.85	cps
Terbium	159-2	3537630	3693454	3576499	3602528	2.25	cps
Thallium	203-1	26373	27843	28124	27447	3.43	cps
Thallium	205-1	64704	65162	64570	64812	0.48	cps
Tin	118-1	139119	139660	142943	140574	1.47	cps
Titanium	47-1	26411	26742	26681	26611	0.66	cps
Uranium	238-1	83502	82854	82654	83003	0.53	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 11:58:55	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	32894	33259	31374	32509	3.07	cps
Ytterbium	172-1	80	63	50	64	23.32	cps
Ytterbium	172-2	30	13	30	24	39.37	cps
Ytterbium	176-1	1207	1283	1347	1279	5.48	cps
Ytterbium	176-2	333	353	370	352	5.21	cps
Yttrium	89-1	14722875	14931210	14876129	14843405	0.73	cps
Yttrium	89-2	1248591	1250313	1254013	1250973	0.22	cps
Zinc	66-2	10160	10120	9917	10066	1.30	cps
Zirconium	90-1	61780	60531	61488	61266	1.07	cps
Zirconium	91-1	13653	13457	13737	13616	1.06	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	128666	128340	128118	128375	0.21	cps
Antimony	121-1	1601276	1627568	1618882	1615909	0.83	cps
Arsenic	75-2	39987	39295	39154	39478	1.13	cps
Barium	135-1	1913932	1936108	1938217	1929419	0.70	cps
Barium	137-1	3251331	3330659	3315490	3299160	1.28	cps
Beryllium	9-1	446720	451049	453909	450559	0.80	cps
Bismuth	209-1	5361341	5326219	5464908	5384156	1.34	cps
Bismuth	209-2	2650630	2609441	2618283	2626118	0.83	cps
Bromine	81-1	28666	29114	28997	28925	0.80	cps
Cadmium	108-1	32949	32208	33554	32904	2.05	cps
Cadmium	106-1	51426	53108	53262	52599	1.94	cps
Cadmium	111-1	396046	411604	407643	405098	2.00	cps
Calcium	43-1	544541	543448	554066	547352	1.07	cps
Calcium	44-1	8776249	8650116	8717449	8714605	0.72	cps
Carbon	12-1	4424200	4214510	4242320	4293677	2.65	cps
Carbon	12-2	29917	29323	28458	29232	2.51	cps
Chlorine	35-1	137028	134756	134313	135366	1.08	cps
Chlorine	35-2	550	703	587	613	13.05	cps
Chromium	52-2	400647	400846	402226	401240	0.21	cps
Cobalt	59-2	730023	725754	724528	726768	0.40	cps
Copper	63-2	5700612	5732757	5711663	5715011	0.29	cps
Dysprosium	156-1	43	57	20	40	46.40	cps
Dysprosium	156-2	17	0	13	10	88.20	cps
Erbium	164-1	47	67	67	60	19.24	cps
Erbium	164-2	40	37	33	37	9.10	cps
Gadolinium	160-1	90	110	73	91	20.15	cps
Gadolinium	160-2	30	20	17	22	31.22	cps
Holmium	165-1	9031027	9110331	9214155	9118504	1.01	cps
Holmium	165-2	3680893	3667630	3687413	3678646	0.27	cps
Indium	115-1	7882165	8077774	8155025	8038321	1.75	cps
Indium	115-2	939266	945836	939593	941565	0.39	cps
Iron	54-2	824214	822676	825055	823982	0.15	cps
Iron	56-2	15000149	14892351	15084415	14992305	0.64	cps
Iron	57-2	376480	376727	374799	376002	0.28	cps
Krypton	83-1	353	350	360	354	1.44	cps
Lead	206-1	5428675	5539826	5584720	5517740	1.46	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4649956	4684035	4768319	4700770	1.30	cps
Lead	208-1	21353429	21455062	21842455	21550315	1.20	cps
Lithium	6-1	2568696	2638183	2598410	2601763	1.34	cps
Magnesium	24-2	2284680	2313801	2268763	2289081	1.00	cps
Manganese	55-2	1719321	1733923	1696563	1716602	1.10	cps
Molybdenum	94-1	5737391	5620621	5647763	5668591	1.08	cps
Molybdenum	95-1	8220338	8218882	8277184	8238802	0.40	cps
Molybdenum	96-1	8764103	9030766	8870055	8888308	1.51	cps
Molybdenum	97-1	5045641	5150563	5078567	5091590	1.05	cps
Molybdenum	98-1	13174903	13196164	13303259	13224775	0.52	cps
Neodymium	150-1	143	110	167	140	20.34	cps
Neodymium	150-2	3	23	0	9	142.00	cps
Nickel	60-2	202679	201257	201331	201755	0.40	cps
Phosphorus	31-2	6728	6658	6822	6736	1.22	cps
Potassium	39-2	821488	825033	823101	823207	0.22	cps
Rhodium	103-1	7561645	7677459	7758793	7665966	1.29	cps
Rhodium	103-2	3347779	3322785	3381157	3350574	0.87	cps
Scandium	45-1	5534027	5502196	5437482	5491235	0.90	cps
Scandium	45-2	127449	127069	126584	127034	0.34	cps
Selenium	82-1	24916	25237	25240	25131	0.74	cps
Selenium	77-2	540	503	547	530	4.40	cps
Selenium	78-2	1717	1827	1790	1778	3.15	cps
Silicon	28-1	1561798	1541945	1877638	1660460	11.34	cps
Silver	107-1	2122838	2189416	2194015	2168756	1.84	cps
Silver	109-1	2001406	1989263	2030939	2007203	1.07	cps
Sodium	23-2	4609746	4542333	4558423	4570167	0.77	cps
Strontium	86-1	531146	533976	534253	533125	0.32	cps
Strontium	88-1	4697870	4718129	4826716	4747572	1.46	cps
Sulfur	34-1	915958	908298	908677	910977	0.47	cps
Terbium	159-1	9471730	9364675	9600579	9478995	1.25	cps
Terbium	159-2	3564036	3629420	3623143	3605533	1.00	cps
Thallium	203-1	1285282	1291477	1321705	1299488	1.50	cps
Thallium	205-1	3164252	3176021	3173200	3171158	0.19	cps
Tin	118-1	1299811	1309424	1323277	1310837	0.90	cps
Titanium	47-1	2464675	2432651	2465597	2454308	0.76	cps
Uranium	238-1	4028739	4047924	4014322	4030328	0.42	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:05:41	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	303612	302281	302286	302726	0.25	cps
Ytterbium	172-1	73	77	83	78	6.55	cps
Ytterbium	172-2	37	20	40	32	33.25	cps
Ytterbium	176-1	7279	7599	7335	7404	2.31	cps
Ytterbium	176-2	2917	2597	2774	2763	5.80	cps
Yttrium	89-1	14832380	14556941	14880536	14756619	1.18	cps
Yttrium	89-2	1229146	1230677	1234379	1231401	0.22	cps
Zinc	66-2	626147	634216	630023	630129	0.64	cps
Zirconium	90-1	2909175	2845912	2879699	2878262	1.10	cps
Zirconium	91-1	624380	620377	630498	625085	0.82	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	299954	300520	296815	299096	0.67	cps
Antimony	121-1	3952555	4029127	3984790	3988824	0.96	cps
Arsenic	75-2	93897	94316	92450	93554	1.05	cps
Barium	135-1	4760879	4808654	4789562	4786365	0.50	cps
Barium	137-1	7976714	8068032	8016858	8020535	0.57	cps
Beryllium	9-1	1076157	1086189	1083465	1081937	0.48	cps
Bismuth	209-1	5360324	5460256	5341464	5387348	1.19	cps
Bismuth	209-2	2546692	2564116	2565851	2558886	0.41	cps
Bromine	81-1	28152	28793	28222	28389	1.24	cps
Cadmium	108-1	80111	79424	81962	80499	1.63	cps
Cadmium	106-1	118406	118711	119169	118762	0.32	cps
Cadmium	111-1	977397	994605	991749	987917	0.93	cps
Calcium	43-1	1283431	1317417	1296405	1299084	1.32	cps
Calcium	44-1	20925016	20994409	21086945	21002124	0.39	cps
Carbon	12-1	4584450	4518316	4445204	4515990	1.54	cps
Carbon	12-2	30943	30665	30956	30855	0.53	cps
Chlorine	35-1	143479	143429	141887	142932	0.63	cps
Chlorine	35-2	667	640	580	629	7.06	cps
Chromium	52-2	958635	947587	945079	950434	0.76	cps
Cobalt	59-2	1790012	1781076	1742812	1771300	1.42	cps
Copper	63-2	13711168	13517917	13456129	13561738	0.98	cps
Dysprosium	156-1	113	73	90	92	21.79	cps
Dysprosium	156-2	13	7	17	12	41.65	cps
Erbium	164-1	110	130	97	112	14.95	cps
Erbium	164-2	37	23	40	33	26.47	cps
Gadolinium	160-1	147	113	93	118	22.88	cps
Gadolinium	160-2	13	47	27	29	58.08	cps
Holmium	165-1	9194852	9134777	9115272	9148300	0.45	cps
Holmium	165-2	3729787	3686305	3701969	3706020	0.59	cps
Indium	115-1	7974641	8029878	7811298	7938606	1.43	cps
Indium	115-2	917580	919092	911847	916173	0.42	cps
Iron	54-2	1981997	2007899	1955095	1981664	1.33	cps
Iron	56-2	35841375	35694510	35476060	35670649	0.52	cps
Iron	57-2	892986	890410	889139	890845	0.22	cps
Krypton	83-1	380	377	363	373	2.36	cps
Lead	206-1	13320084	13564537	13683282	13522634	1.37	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11382737	11479878	11423177	11428597	0.43	cps
Lead	208-1	52378499	53343718	52869842	52864020	0.91	cps
Lithium	6-1	2609991	2536613	2651162	2599255	2.23	cps
Magnesium	24-2	5318669	5253150	5333873	5301897	0.81	cps
Manganese	55-2	4106808	4093948	4043629	4081462	0.82	cps
Molybdenum	94-1	14014000	13862970	13920781	13932584	0.55	cps
Molybdenum	95-1	20269472	19934336	19937068	20046959	0.96	cps
Molybdenum	96-1	21987563	21889951	21869521	21915679	0.29	cps
Molybdenum	97-1	12571010	12438149	12457457	12488872	0.57	cps
Molybdenum	98-1	32497618	32420540	32635685	32517948	0.34	cps
Neodymium	150-1	330	293	273	299	9.62	cps
Neodymium	150-2	20	17	3	13	66.16	cps
Nickel	60-2	479808	475678	470204	475230	1.01	cps
Phosphorus	31-2	15789	15729	16096	15871	1.24	cps
Potassium	39-2	1909304	1919779	1893440	1907508	0.70	cps
Rhodium	103-1	7485803	7598419	7584481	7556235	0.81	cps
Rhodium	103-2	3279115	3290107	3260282	3276502	0.46	cps
Scandium	45-1	5351884	5493214	5494154	5446418	1.50	cps
Scandium	45-2	123441	123000	121938	122793	0.63	cps
Selenium	82-1	61040	61436	61301	61259	0.33	cps
Selenium	77-2	1213	1297	1177	1229	5.00	cps
Selenium	78-2	4327	4091	4411	4276	3.88	cps
Silicon	28-1	2972354	2981449	3018357	2990720	0.81	cps
Silver	107-1	5221264	5299621	5196516	5239134	1.03	cps
Silver	109-1	4909148	4918908	4921457	4916505	0.13	cps
Sodium	23-2	10767492	10682589	10598182	10682754	0.79	cps
Strontium	86-1	1278304	1306262	1297260	1293942	1.10	cps
Strontium	88-1	11325265	11563164	11507645	11465358	1.09	cps
Sulfur	34-1	1028182	1009932	1021520	1019878	0.91	cps
Terbium	159-1	9495066	9686618	9507433	9563039	1.12	cps
Terbium	159-2	3581390	3540240	3581536	3567722	0.67	cps
Thallium	203-1	3289365	3359066	3360493	3336308	1.22	cps
Thallium	205-1	7760017	7921659	7782272	7821316	1.12	cps
Tin	118-1	3273172	3317025	3260643	3283614	0.90	cps
Titanium	47-1	5733362	5829392	5810825	5791193	0.88	cps
Uranium	238-1	9900798	9923516	9838210	9887508	0.45	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:08:43	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	724912	717312	714005	718743	0.78	cps
Ytterbium	172-1	117	97	133	116	15.89	cps
Ytterbium	172-2	43	30	43	39	19.79	cps
Ytterbium	176-1	16530	17038	16798	16789	1.51	cps
Ytterbium	176-2	6288	6302	6205	6265	0.84	cps
Yttrium	89-1	14445004	14631051	14669801	14581952	0.82	cps
Yttrium	89-2	1212286	1202719	1206470	1207158	0.40	cps
Zinc	66-2	1572756	1532944	1493344	1533015	2.59	cps
Zirconium	90-1	6819064	6998401	6858624	6892030	1.37	cps
Zirconium	91-1	1591239	1560023	1560511	1570591	1.14	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	592478	592917	587364	590920	0.52	cps
Antimony	121-1	7816739	7741411	7747470	7768540	0.54	cps
Arsenic	75-2	187055	186942	186368	186788	0.20	cps
Barium	135-1	9337720	9408639	9121056	9289138	1.61	cps
Barium	137-1	15936696	15738962	15674111	15783256	0.87	cps
Beryllium	9-1	1998939	1987795	2062280	2016338	1.99	cps
Bismuth	209-1	5361771	5254256	5414424	5343484	1.53	cps
Bismuth	209-2	2493037	2510738	2500621	2501465	0.36	cps
Bromine	81-1	28659	27030	27928	27872	2.93	cps
Cadmium	108-1	156999	152321	157964	155761	1.94	cps
Cadmium	106-1	223397	227635	226960	225998	1.01	cps
Cadmium	111-1	1993928	1998981	2038822	2010577	1.22	cps
Calcium	43-1	2467256	2503350	2460035	2476880	0.94	cps
Calcium	44-1	39817552	41005923	40329037	40384171	1.48	cps
Carbon	12-1	4837014	4854400	4751711	4814375	1.14	cps
Carbon	12-2	34323	33939	33485	33916	1.24	cps
Chlorine	35-1	152285	153521	151732	152512	0.60	cps
Chlorine	35-2	653	653	720	676	5.70	cps
Chromium	52-2	1882594	1915535	1894636	1897588	0.88	cps
Cobalt	59-2	3427148	3443914	3407061	3426041	0.54	cps
Copper	63-2	26475592	26389132	26286459	26383728	0.36	cps
Dysprosium	156-1	157	170	173	167	5.29	cps
Dysprosium	156-2	27	23	27	26	7.55	cps
Erbium	164-1	163	133	117	138	17.16	cps
Erbium	164-2	50	60	70	60	16.67	cps
Gadolinium	160-1	120	117	110	116	4.41	cps
Gadolinium	160-2	53	33	50	46	23.52	cps
Holmium	165-1	9022431	9054517	9145135	9074028	0.70	cps
Holmium	165-2	3582051	3633661	3559036	3591583	1.06	cps
Indium	115-1	7782831	7841743	7970132	7864902	1.22	cps
Indium	115-2	884391	887365	881758	884505	0.32	cps
Iron	54-2	3794044	3903455	3833282	3843594	1.44	cps
Iron	56-2	69550292	69983176	69999127	69844198	0.36	cps
Iron	57-2	1793383	1799410	1789048	1793947	0.29	cps
Krypton	83-1	433	430	407	423	3.43	cps
Lead	206-1	26834475	26776815	27472777	27028022	1.43	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	22664947	22579126	23141862	22795312	1.33	cps
Lead	208-1	105365528	104259990	106561650	105395723	1.09	cps
Lithium	6-1	2558304	2515548	2614394	2562749	1.93	cps
Magnesium	24-2	10635070	10350066	10432650	10472595	1.40	cps
Manganese	55-2	7874433	8046213	7976130	7965592	1.08	cps
Molybdenum	94-1	27094015	27509690	27989923	27531209	1.63	cps
Molybdenum	95-1	39203571	39806069	40866110	39958583	2.11	cps
Molybdenum	96-1	42504051	43070536	44466571	43347053	2.33	cps
Molybdenum	97-1	24159457	24581229	25035407	24592031	1.78	cps
Molybdenum	98-1	62721402	64898962	65596222	64405529	2.33	cps
Neodymium	150-1	567	613	630	603	5.44	cps
Neodymium	150-2	13	17	27	19	36.75	cps
Nickel	60-2	917041	916746	916086	916624	0.05	cps
Phosphorus	31-2	31601	30228	31775	31201	2.72	cps
Potassium	39-2	3771116	3704302	3740281	3738566	0.89	cps
Rhodium	103-1	7251724	7333441	7413228	7332798	1.10	cps
Rhodium	103-2	3144484	3184863	3217313	3182220	1.15	cps
Scandium	45-1	5140227	5265725	5278974	5228309	1.46	cps
Scandium	45-2	123075	124133	122211	123140	0.78	cps
Selenium	82-1	118856	122049	121518	120808	1.42	cps
Selenium	77-2	2554	2470	2394	2472	3.24	cps
Selenium	78-2	8232	8336	8593	8387	2.21	cps
Silicon	28-1	5348912	5438760	5383357	5390343	0.84	cps
Silver	107-1	10039974	9808995	10120909	9989960	1.62	cps
Silver	109-1	9423583	9486822	9626775	9512393	1.09	cps
Sodium	23-2	21237200	20945520	21029154	21070624	0.71	cps
Strontium	86-1	2631774	2607360	2610981	2616705	0.50	cps
Strontium	88-1	22654036	22636313	22374484	22554944	0.69	cps
Sulfur	34-1	1313466	1310571	1292926	1305654	0.85	cps
Terbium	159-1	9136406	9290042	9529228	9318559	2.12	cps
Terbium	159-2	3550112	3513797	3519582	3527830	0.55	cps
Thallium	203-1	6417808	6557014	6694403	6556409	2.11	cps
Thallium	205-1	15174319	15257251	15679829	15370466	1.76	cps
Tin	118-1	6373239	6456881	6601237	6477119	1.78	cps
Titanium	47-1	11176704	11525089	11469752	11390515	1.64	cps
Uranium	238-1	19741173	19451121	19622949	19605081	0.74	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:11:36	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1419368	1440364	1409218	1422983	1.12	cps
Ytterbium	172-1	113	213	183	170	30.18	cps
Ytterbium	172-2	60	70	60	63	9.12	cps
Ytterbium	176-1	32219	31341	31661	31740	1.40	cps
Ytterbium	176-2	12116	12646	12216	12326	2.29	cps
Yttrium	89-1	14099994	14403343	14341420	14281586	1.12	cps
Yttrium	89-2	1186702	1196323	1185227	1189417	0.51	cps
Zinc	66-2	3029154	2962109	3033501	3008255	1.33	cps
Zirconium	90-1	13450365	13756100	13689910	13632125	1.18	cps
Zirconium	91-1	3006098	3114142	3138120	3086120	2.28	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1160854	1161678	1161053	1161195	0.04	cps
Antimony	121-1	15326407	15445645	15500591	15424214	0.58	cps
Arsenic	75-2	369968	367346	365978	367764	0.55	cps
Barium	135-1	18434969	18816865	18670923	18640919	1.03	cps
Barium	137-1	31413555	31938902	31666722	31673060	0.83	cps
Beryllium	9-1	3862710	3883840	3921903	3889484	0.77	cps
Bismuth	209-1	5006567	5106538	5067976	5060360	1.00	cps
Bismuth	209-2	2431068	2425453	2393081	2416534	0.85	cps
Bromine	81-1	28078	28910	27607	28198	2.34	cps
Cadmium	108-1	303972	307995	307352	306440	0.71	cps
Cadmium	106-1	433265	442637	444722	440208	1.39	cps
Cadmium	111-1	3831481	3898197	3892581	3874086	0.96	cps
Calcium	43-1	5014858	4863805	4970188	4949617	1.57	cps
Calcium	44-1	80141659	81246509	80731950	80706706	0.69	cps
Carbon	12-1	5399820	5515270	5481390	5465493	1.09	cps
Carbon	12-2	40024	40830	40145	40333	1.08	cps
Chlorine	35-1	170916	169580	173570	171355	1.19	cps
Chlorine	35-2	843	860	773	826	5.57	cps
Chromium	52-2	3681780	3677288	3655532	3671533	0.38	cps
Cobalt	59-2	6739790	6693935	6754607	6729444	0.47	cps
Copper	63-2	51371329	51216858	50547363	51045183	0.86	cps
Dysprosium	156-1	350	330	380	353	7.12	cps
Dysprosium	156-2	53	43	77	58	29.61	cps
Erbium	164-1	247	240	233	240	2.78	cps
Erbium	164-2	83	110	73	89	21.33	cps
Gadolinium	160-1	157	177	167	167	6.00	cps
Gadolinium	160-2	57	67	63	62	8.18	cps
Holmium	165-1	8938847	9036592	8794288	8923242	1.37	cps
Holmium	165-2	3576436	3506484	3529518	3537479	1.01	cps
Indium	115-1	7417772	7420879	7374015	7404222	0.35	cps
Indium	115-2	829972	826689	832475	829712	0.35	cps
Iron	54-2	7493478	7487361	7454525	7478455	0.28	cps
Iron	56-2	136986605	138341578	136266035	137198072	0.77	cps
Iron	57-2	3520909	3524208	3521665	3522260	0.05	cps
Krypton	83-1	413	430	330	391	13.70	cps
Lead	206-1	51767166	52650271	52821306	52412914	1.08	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	43974526	44625278	44880076	44493293	1.05	cps
Lead	208-1	202401050	206331137	206301237	205011141	1.10	cps
Lithium	6-1	2488504	2462379	2527734	2492872	1.32	cps
Magnesium	24-2	20444646	20607072	20389729	20480482	0.55	cps
Manganese	55-2	15563326	15778805	15637959	15660030	0.70	cps
Molybdenum	94-1	54395963	55075839	55147443	54873081	0.76	cps
Molybdenum	95-1	79359740	81039772	80024627	80141380	1.06	cps
Molybdenum	96-1	86490762	87992135	86238892	86907263	1.09	cps
Molybdenum	97-1	49156301	49449351	49290328	49298660	0.30	cps
Molybdenum	98-1	127035931	127830845	129739371	128202049	1.08	cps
Neodymium	150-1	1043	1133	1130	1102	4.63	cps
Neodymium	150-2	57	57	70	61	12.59	cps
Nickel	60-2	1910077	1873767	1887682	1890509	0.97	cps
Phosphorus	31-2	60656	60368	60244	60423	0.35	cps
Potassium	39-2	7378087	7271807	7302872	7317589	0.75	cps
Rhodium	103-1	6999502	7058643	7084312	7047486	0.62	cps
Rhodium	103-2	3060400	3054082	3039852	3051445	0.34	cps
Scandium	45-1	5222105	5162332	5140016	5174818	0.82	cps
Scandium	45-2	121619	120080	120796	120832	0.64	cps
Selenium	82-1	230204	235893	235438	233845	1.35	cps
Selenium	77-2	4781	4864	4921	4855	1.45	cps
Selenium	78-2	16116	16433	16109	16219	1.14	cps
Silicon	28-1	9909863	10240101	10070607	10073523	1.64	cps
Silver	107-1	19537806	19722797	19564217	19608273	0.51	cps
Silver	109-1	18328449	18563289	18440853	18444197	0.64	cps
Sodium	23-2	41309289	41715018	41432224	41485510	0.50	cps
Strontium	86-1	5111620	5194011	5199807	5168479	0.95	cps
Strontium	88-1	44900009	45468584	45055536	45141377	0.65	cps
Sulfur	34-1	1846182	1868698	1839749	1851543	0.82	cps
Terbium	159-1	9248809	9306235	9237803	9264282	0.40	cps
Terbium	159-2	3499801	3527247	3385619	3470889	2.16	cps
Thallium	203-1	12764255	12752351	12665646	12727417	0.42	cps
Thallium	205-1	30238802	30432795	30104219	30258605	0.55	cps
Tin	118-1	12740320	12693982	12628070	12687457	0.44	cps
Titanium	47-1	22482650	22783907	22622990	22629849	0.67	cps
Uranium	238-1	38155189	38953774	38849664	38652876	1.12	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:14:23	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2782189	2856882	2807428	2815500	1.35	cps
Ytterbium	172-1	223	240	260	241	7.61	cps
Ytterbium	172-2	147	117	133	132	11.37	cps
Ytterbium	176-1	62377	62782	62115	62424	0.54	cps
Ytterbium	176-2	24539	24249	24002	24263	1.11	cps
Yttrium	89-1	14250961	14173052	14049732	14157915	0.72	cps
Yttrium	89-2	1162571	1156745	1149195	1156170	0.58	cps
Zinc	66-2	5853412	5882890	5765340	5833881	1.05	cps
Zirconium	90-1	27193730	27217834	27754349	27388637	1.16	cps
Zirconium	91-1	6105198	6172235	6102451	6126628	0.65	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2243180	2204778	2160028	2202662	1.89	cps
Antimony	121-1	30104052	30332681	30042778	30159837	0.51	cps
Arsenic	75-2	712072	718327	708437	712945	0.70	cps
Barium	135-1	35014809	36237081	36153184	35801691	1.91	cps
Barium	137-1	59936374	61931334	61676657	61181455	1.77	cps
Beryllium	9-1	7533215	7457047	7632582	7540948	1.17	cps
Bismuth	209-1	4880094	4859337	4858536	4865989	0.25	cps
Bismuth	209-2	2282664	2325051	2322021	2309912	1.02	cps
Bromine	81-1	28623	29144	27861	28542	2.26	cps
Cadmium	108-1	593173	588836	588905	590304	0.42	cps
Cadmium	106-1	847827	848291	836567	844228	0.79	cps
Cadmium	111-1	7473054	7433416	7571903	7492791	0.95	cps
Calcium	43-1	9561442	9907522	9786039	9751668	1.80	cps
Calcium	44-1	156370461	161106178	159806448	159094362	1.54	cps
Carbon	12-1	6593595	6890967	7128343	6870968	3.90	cps
Carbon	12-2	53570	53323	52978	53290	0.56	cps
Chlorine	35-1	208903	213694	215054	212550	1.52	cps
Chlorine	35-2	1017	1077	1067	1053	3.05	cps
Chromium	52-2	7142804	7167623	7062957	7124461	0.77	cps
Cobalt	59-2	12695122	12864948	12741836	12767302	0.69	cps
Copper	63-2	97447365	97045899	97574972	97356079	0.28	cps
Dysprosium	156-1	593	643	653	630	5.10	cps
Dysprosium	156-2	120	107	90	106	14.24	cps
Erbium	164-1	363	353	290	336	11.85	cps
Erbium	164-2	143	117	133	131	10.28	cps
Gadolinium	160-1	290	373	363	342	13.29	cps
Gadolinium	160-2	100	157	73	110	38.69	cps
Holmium	165-1	8757739	8849974	8762918	8790210	0.59	cps
Holmium	165-2	3514501	3541894	3512025	3522807	0.47	cps
Indium	115-1	6909090	6914218	6947648	6923652	0.30	cps
Indium	115-2	749765	767078	750927	755923	1.28	cps
Iron	54-2	14513669	14728816	14326478	14522988	1.39	cps
Iron	56-2	266462696	262322216	264512896	264432603	0.78	cps
Iron	57-2	6733887	6697808	6661165	6697620	0.54	cps
Krypton	83-1	440	383	457	427	9.01	cps
Lead	206-1	99737295	100313272	101683835	100578134	0.99	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	84743322	85817080	84864852	85141752	0.69	cps
Lead	208-1	391381481	394540969	393572831	393165094	0.41	cps
Lithium	6-1	2406466	2430912	2426790	2421389	0.54	cps
Magnesium	24-2	39290219	39572154	38853966	39238779	0.92	cps
Manganese	55-2	30677097	30610079	30372544	30553240	0.52	cps
Molybdenum	94-1	107201818	108031072	107910122	107714337	0.42	cps
Molybdenum	95-1	155549371	155029661	158123701	156234244	1.06	cps
Molybdenum	96-1	169893084	170490644	171511711	170631813	0.48	cps
Molybdenum	97-1	93666459	96224055	96020829	95303781	1.49	cps
Molybdenum	98-1	246655496	251263603	250367710	249428936	0.98	cps
Neodymium	150-1	2187	2130	2244	2187	2.59	cps
Neodymium	150-2	100	113	107	107	6.25	cps
Nickel	60-2	3573917	3577221	3575837	3575658	0.05	cps
Phosphorus	31-2	115737	116019	115441	115732	0.25	cps
Potassium	39-2	14299268	14022488	14116592	14146116	0.99	cps
Rhodium	103-1	6671038	6727225	6729918	6709394	0.50	cps
Rhodium	103-2	2959707	2968738	2955629	2961358	0.23	cps
Scandium	45-1	5070460	5088270	5078755	5079162	0.18	cps
Scandium	45-2	120671	121266	120704	120880	0.28	cps
Selenium	82-1	447406	451869	458629	452634	1.25	cps
Selenium	77-2	8973	9447	9607	9342	3.53	cps
Selenium	78-2	31679	32077	31251	31669	1.30	cps
Silicon	28-1	18735850	18909278	18890864	18845331	0.51	cps
Silver	107-1	37050044	37728669	37697469	37492061	1.02	cps
Silver	109-1	34883501	35072110	35802100	35252571	1.38	cps
Sodium	23-2	79654684	80204677	79598037	79819133	0.42	cps
Strontium	86-1	9908358	9958015	9969325	9945233	0.33	cps
Strontium	88-1	86771639	87392859	87723575	87296024	0.55	cps
Sulfur	34-1	2939972	2984673	2912088	2945578	1.24	cps
Terbium	159-1	9039053	9059289	8945399	9014580	0.67	cps
Terbium	159-2	3421022	3422427	3442920	3428789	0.36	cps
Thallium	203-1	24420138	24706349	25199630	24775372	1.59	cps
Thallium	205-1	58115516	59176702	59597119	58963112	1.29	cps
Tin	118-1	24719182	24812160	24757499	24762947	0.19	cps
Titanium	47-1	44555199	44301319	44267914	44374811	0.35	cps
Uranium	238-1	76581024	75884319	77599629	76688324	1.12	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:17:08	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5409324	5477043	5428568	5438312	0.64	cps
Ytterbium	172-1	443	490	440	458	6.11	cps
Ytterbium	172-2	140	197	157	164	17.71	cps
Ytterbium	176-1	118806	121933	121191	120643	1.35	cps
Ytterbium	176-2	48074	46512	47555	47380	1.68	cps
Yttrium	89-1	13768570	13805263	13761334	13778389	0.17	cps
Yttrium	89-2	1133993	1144129	1125327	1134483	0.83	cps
Zinc	66-2	11230589	11175324	11099309	11168407	0.59	cps
Zirconium	90-1	53666154	54144918	53799348	53870140	0.46	cps
Zirconium	91-1	12131064	12028772	12108880	12089572	0.45	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11407705	11271666	10916073	11198481	2.27	cps
Antimony	121-1	16407	15649	14561	15539	5.97	cps
Arsenic	75-2	350	353	333	346	3.10	cps
Barium	135-1	13517	13493	13237	13416	1.16	cps
Barium	137-1	23253	23611	23183	23349	0.98	cps
Beryllium	9-1	1962	1884	1856	1901	2.88	cps
Bismuth	209-1	4241571	4205609	4183739	4210307	0.69	cps
Bismuth	209-2	2073742	2065218	2085395	2074785	0.49	cps
Bromine	81-1	25884	26398	26135	26139	0.98	cps
Cadmium	108-1	217	230	237	228	4.47	cps
Cadmium	106-1	4998	4668	4858	4841	3.42	cps
Cadmium	111-1	4443	4140	4251	4278	3.59	cps
Calcium	43-1	44947824	44140479	43943341	44343882	1.20	cps
Calcium	44-1	735065056	728050282	728841882	730652407	0.53	cps
Carbon	12-1	4995496	4897729	4785434	4892887	2.15	cps
Carbon	12-2	46864	46911	45891	46556	1.24	cps
Chlorine	35-1	126970	124244	123575	124930	1.44	cps
Chlorine	35-2	670	637	637	648	2.97	cps
Chromium	52-2	63001	60728	59486	61072	2.92	cps
Cobalt	59-2	27330	26468	25590	26462	3.29	cps
Copper	63-2	25974	25830	24869	25558	2.35	cps
Dysprosium	156-1	877	1053	1043	991	10.01	cps
Dysprosium	156-2	310	357	317	328	7.70	cps
Erbium	164-1	1167	1173	1020	1120	7.74	cps
Erbium	164-2	463	427	367	419	11.65	cps
Gadolinium	160-1	950	790	823	854	9.88	cps
Gadolinium	160-2	400	340	377	372	8.13	cps
Holmium	165-1	8142034	8097864	8061316	8100405	0.50	cps
Holmium	165-2	3414403	3349013	3418485	3393967	1.15	cps
Indium	115-1	6621875	6662812	6651479	6645389	0.32	cps
Indium	115-2	824025	821135	828577	824579	0.45	cps
Iron	54-2	70117289	68376641	65487842	67993924	3.44	cps
Iron	56-2	1280897794	1264055021	1200685955	1248546257	3.39	cps
Iron	57-2	32283698	31703848	30720035	31569194	2.50	cps
Krypton	83-1	440	460	520	473	8.80	cps
Lead	206-1	103727	103253	101403	102795	1.19	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	89537	88872	86352	88253	1.90	cps
Lead	208-1	410850	406214	398733	405265	1.51	cps
Lithium	6-1	2209503	2234544	2216546	2220197	0.58	cps
Magnesium	24-2	194661177	192079004	185514284	190751488	2.47	cps
Manganese	55-2	16370	15856	15575	15933	2.53	cps
Molybdenum	94-1	20288	19424	19781	19831	2.19	cps
Molybdenum	95-1	19694	19704	19671	19690	0.09	cps
Molybdenum	96-1	33975	33430	32775	33394	1.80	cps
Molybdenum	97-1	11979	11431	10904	11438	4.70	cps
Molybdenum	98-1	30210	28589	27795	28865	4.26	cps
Neodymium	150-1	560	530	613	568	7.43	cps
Neodymium	150-2	177	127	167	157	16.89	cps
Nickel	60-2	16713	16490	15836	16346	2.79	cps
Phosphorus	31-2	157	167	127	150	13.88	cps
Potassium	39-2	74050036	72910626	70695222	72551961	2.35	cps
Rhodium	103-1	5826103	5888164	5792909	5835725	0.83	cps
Rhodium	103-2	2659061	2625456	2674306	2652941	0.94	cps
Scandium	45-1	4662766	4681376	4639202	4661115	0.45	cps
Scandium	45-2	113433	112932	114303	113556	0.61	cps
Selenium	82-1	330	320	253	301	13.84	cps
Selenium	77-2	10	10	3	8	49.52	cps
Selenium	78-2	43	57	67	56	21.08	cps
Silicon	28-1	847141	796822	772127	805363	4.75	cps
Silver	107-1	3671	3284	2960	3305	10.76	cps
Silver	109-1	3494	3307	2944	3248	8.61	cps
Sodium	23-2	392065621	390369688	379538674	387324661	1.75	cps
Strontium	86-1	31011	31282	31676	31323	1.07	cps
Strontium	88-1	267950	270801	268930	269227	0.54	cps
Sulfur	34-1	547898	540525	540535	542986	0.78	cps
Terbium	159-1	8406792	8394951	8257562	8353102	0.99	cps
Terbium	159-2	3319268	3332936	3302059	3318088	0.47	cps
Thallium	203-1	1984	1663	1677	1775	10.20	cps
Thallium	205-1	4778	4171	3727	4225	12.48	cps
Tin	118-1	7576	7192	7172	7313	3.11	cps
Titanium	47-1	3470	3580	3480	3510	1.73	cps
Uranium	238-1	3227	2860	2684	2924	9.48	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 12:19:58	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1470	1467	1330	1422	5.62	cps
Ytterbium	172-1	1883	1660	1733	1759	6.47	cps
Ytterbium	172-2	830	893	727	817	10.30	cps
Ytterbium	176-1	2354	2174	2137	2221	5.22	cps
Ytterbium	176-2	873	793	743	803	8.16	cps
Yttrium	89-1	12884477	12967140	12549287	12800301	1.73	cps
Yttrium	89-2	1129295	1135269	1134914	1133159	0.30	cps
Zinc	66-2	66435	66468	63515	65473	2.59	cps
Zirconium	90-1	24662	23380	22889	23643	3.87	cps
Zirconium	91-1	5264	5304	5511	5360	2.47	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	66183	64495	63893	64857	1.83	cps
Antimony	121-1	6198968	6149371	6224628	6190989	0.62	cps
Arsenic	75-2	159852	160128	158145	159375	0.67	cps
Barium	135-1	730993	731248	747935	736725	1.32	cps
Barium	137-1	1265868	1285526	1283219	1278204	0.84	cps
Beryllium	9-1	800743	810155	806775	805891	0.59	cps
Bismuth	209-1	5413544	5464224	5271494	5383087	1.86	cps
Bismuth	209-2	2654355	2685755	2628972	2656361	1.07	cps
Bromine	81-1	30473	30988	31322	30928	1.38	cps
Cadmium	108-1	51442	52710	52583	52245	1.34	cps
Cadmium	106-1	77101	76745	77194	77013	0.31	cps
Cadmium	111-1	800634	793365	804964	799654	0.73	cps
Calcium	43-1	206991	211568	213254	210604	1.54	cps
Calcium	44-1	3431898	3433717	3450473	3438696	0.30	cps
Carbon	12-1	5124550	5091710	4939010	5051757	1.96	cps
Carbon	12-2	35042	34845	34724	34870	0.46	cps
Chlorine	35-1	140269	140114	140504	140296	0.14	cps
Chlorine	35-2	663	633	620	639	3.47	cps
Chromium	52-2	828676	823913	818950	823846	0.59	cps
Cobalt	59-2	1585482	1556361	1537565	1559803	1.55	cps
Copper	63-2	1179499	1177210	1154495	1170401	1.18	cps
Dysprosium	156-1	30	17	23	23	28.56	cps
Dysprosium	156-2	10	7	3	7	50.03	cps
Erbium	164-1	80	73	70	74	6.84	cps
Erbium	164-2	33	33	13	27	43.31	cps
Gadolinium	160-1	113	70	83	89	24.97	cps
Gadolinium	160-2	20	17	10	16	32.73	cps
Holmium	165-1	9101699	9012220	9281026	9131648	1.50	cps
Holmium	165-2	3830735	3871908	3803101	3835248	0.90	cps
Indium	115-1	8191401	8366354	8287867	8281874	1.06	cps
Indium	115-2	1001534	1001205	992447	998395	0.52	cps
Iron	54-2	678774	671224	664684	671561	1.05	cps
Iron	56-2	12162953	12076314	12083180	12107482	0.40	cps
Iron	57-2	303037	294766	298485	298763	1.39	cps
Krypton	83-1	370	440	353	388	11.86	cps
Lead	206-1	4345691	4330031	4370045	4348589	0.46	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3606764	3583461	3527246	3572490	1.14	cps
Lead	208-1	16783802	16680501	16607548	16690617	0.53	cps
Lithium	6-1	2607226	2496006	2611285	2571506	2.54	cps
Magnesium	24-2	547509	545330	540703	544514	0.64	cps
Manganese	55-2	349967	347810	346856	348211	0.46	cps
Molybdenum	94-1	1090	1093	1053	1079	2.06	cps
Molybdenum	95-1	517	463	487	489	5.47	cps
Molybdenum	96-1	937	1013	1023	991	4.78	cps
Molybdenum	97-1	290	260	263	271	6.07	cps
Molybdenum	98-1	823	780	737	780	5.56	cps
Neodymium	150-1	47	47	50	48	4.02	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	418564	418722	416060	417782	0.36	cps
Phosphorus	31-2	120	130	153	134	12.73	cps
Potassium	39-2	674774	669135	668594	670834	0.51	cps
Rhodium	103-1	7963119	7749426	8088092	7933546	2.16	cps
Rhodium	103-2	3510240	3454896	3475794	3480310	0.80	cps
Scandium	45-1	5773038	5770217	5806371	5783209	0.35	cps
Scandium	45-2	136515	136700	135276	136164	0.57	cps
Selenium	82-1	102051	101554	100664	101423	0.69	cps
Selenium	77-2	2280	2244	2047	2190	5.73	cps
Selenium	78-2	7989	7495	7545	7677	3.54	cps
Silicon	28-1	558087	561593	553915	557865	0.69	cps
Silver	107-1	2066210	2112675	2051623	2076836	1.54	cps
Silver	109-1	1938861	1920362	1968031	1942418	1.24	cps
Sodium	23-2	1948263	1882166	1912547	1914325	1.73	cps
Strontium	86-1	3170	3214	3267	3217	1.51	cps
Strontium	88-1	22972	22762	23443	23059	1.51	cps
Sulfur	34-1	731812	728812	731222	730615	0.22	cps
Terbium	159-1	9502790	9631876	9471712	9535459	0.89	cps
Terbium	159-2	3734623	3752415	3696830	3727956	0.76	cps
Thallium	203-1	5508942	5475323	5442506	5475590	0.61	cps
Thallium	205-1	12782484	12512464	12516549	12603832	1.23	cps
Tin	118-1	4789	4467	4714	4657	3.61	cps
Titanium	47-1	387	373	300	353	13.21	cps
Uranium	238-1	180	140	127	149	18.64	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 13:58:11	DataFile Name :	018ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	622210	614153	609736	615366	1.03	cps
Ytterbium	172-1	53	57	53	54	3.54	cps
Ytterbium	172-2	30	33	17	27	33.06	cps
Ytterbium	176-1	1067	1213	1060	1113	7.78	cps
Ytterbium	176-2	333	347	297	326	7.95	cps
Yttrium	89-1	15196434	15069545	15281860	15182613	0.70	cps
Yttrium	89-2	1302421	1307544	1291428	1300464	0.63	cps
Zinc	66-2	256869	254999	252634	254834	0.83	cps
Zirconium	90-1	2027	1994	2134	2051	3.57	cps
Zirconium	91-1	1330	1477	1443	1417	5.43	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3427	3254	3304	3328	2.68	cps
Antimony	121-1	65107	64779	65295	65060	0.40	cps
Arsenic	75-2	843	917	870	877	4.23	cps
Barium	135-1	76575	78656	78020	77750	1.37	cps
Barium	137-1	133191	133531	132340	133021	0.46	cps
Beryllium	9-1	8573	8502	8585	8553	0.52	cps
Bismuth	209-1	5226796	5259025	5277710	5254510	0.49	cps
Bismuth	209-2	2660564	2696518	2675998	2677693	0.67	cps
Bromine	81-1	31051	30948	31148	31049	0.32	cps
Cadmium	108-1	677	730	707	704	3.80	cps
Cadmium	106-1	6225	6288	6325	6279	0.81	cps
Cadmium	111-1	12363	12353	12606	12441	1.15	cps
Calcium	43-1	58163	59958	59512	59211	1.58	cps
Calcium	44-1	993733	998680	991774	994729	0.36	cps
Carbon	12-1	4767371	4464680	4517342	4583131	3.53	cps
Carbon	12-2	30879	29276	30659	30271	2.87	cps
Chlorine	35-1	128450	128255	128238	128315	0.09	cps
Chlorine	35-2	703	563	503	590	17.40	cps
Chromium	52-2	18976	19533	19146	19219	1.49	cps
Cobalt	59-2	17508	17074	16430	17004	3.19	cps
Copper	63-2	28318	27727	26919	27655	2.54	cps
Dysprosium	156-1	23	20	43	29	43.68	cps
Dysprosium	156-2	0	0	7	2	173.21	cps
Erbium	164-1	57	63	43	54	18.71	cps
Erbium	164-2	20	17	20	19	10.18	cps
Gadolinium	160-1	123	90	53	89	39.39	cps
Gadolinium	160-2	27	13	20	20	33.35	cps
Holmium	165-1	8607468	8838348	8796363	8747393	1.41	cps
Holmium	165-2	3776687	3778312	3755056	3770018	0.34	cps
Indium	115-1	8108473	8085792	8141409	8111891	0.34	cps
Indium	115-2	1000013	988346	992471	993610	0.60	cps
Iron	54-2	20171	19817	18953	19647	3.19	cps
Iron	56-2	342958	336936	329379	336425	2.02	cps
Iron	57-2	8659	8403	8202	8421	2.72	cps
Krypton	83-1	363	320	360	348	6.93	cps
Lead	206-1	22082	22172	21855	22037	0.74	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18634	19431	19308	19124	2.25	cps
Lead	208-1	87323	88207	87586	87705	0.52	cps
Lithium	6-1	2498176	2432664	2507858	2479566	1.65	cps
Magnesium	24-2	261059	256509	251876	256481	1.79	cps
Manganese	55-2	4651	4814	4721	4729	1.73	cps
Molybdenum	94-1	71938	71616	71449	71668	0.35	cps
Molybdenum	95-1	84535	86560	84693	85263	1.32	cps
Molybdenum	96-1	94489	95562	95066	95039	0.57	cps
Molybdenum	97-1	52977	52475	53596	53016	1.06	cps
Molybdenum	98-1	138726	137429	137223	137793	0.59	cps
Neodymium	150-1	37	10	23	23	57.15	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	5604	5578	5564	5582	0.37	cps
Phosphorus	31-2	407	370	360	379	6.49	cps
Potassium	39-2	201430	198388	198760	199526	0.83	cps
Rhodium	103-1	7782412	7828049	7604398	7738286	1.53	cps
Rhodium	103-2	3462930	3459132	3507247	3476436	0.77	cps
Scandium	45-1	5760393	5691103	5755565	5735687	0.67	cps
Scandium	45-2	133513	133985	134401	133967	0.33	cps
Selenium	82-1	2527	2454	2647	2543	3.84	cps
Selenium	77-2	63	57	60	60	5.55	cps
Selenium	78-2	207	250	200	219	12.40	cps
Silicon	28-1	691309	718463	724276	711350	2.47	cps
Silver	107-1	40850	41669	43124	41881	2.75	cps
Silver	109-1	39898	40192	40262	40117	0.48	cps
Sodium	23-2	583368	579720	577806	580298	0.49	cps
Strontium	86-1	11705	12312	11885	11967	2.61	cps
Strontium	88-1	97044	101546	100102	99564	2.31	cps
Sulfur	34-1	745320	745906	750220	747149	0.36	cps
Terbium	159-1	9039325	9047557	9078998	9055293	0.23	cps
Terbium	159-2	3648599	3659366	3674622	3660862	0.36	cps
Thallium	203-1	25909	27002	26751	26554	2.15	cps
Thallium	205-1	62724	62888	62158	62590	0.61	cps
Tin	118-1	137267	140246	140064	139192	1.20	cps
Titanium	47-1	26879	26735	27229	26948	0.94	cps
Uranium	238-1	78212	80207	79309	79243	1.26	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:16:30	DataFile Name :	021LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	34635	34177	32721	33844	2.95	cps
Ytterbium	172-1	63	57	90	70	25.20	cps
Ytterbium	172-2	20	30	20	23	24.74	cps
Ytterbium	176-1	1217	1243	1227	1229	1.10	cps
Ytterbium	176-2	360	307	323	330	8.27	cps
Yttrium	89-1	14601464	14833087	14647630	14694060	0.83	cps
Yttrium	89-2	1291227	1301276	1299839	1297447	0.42	cps
Zinc	66-2	10160	10337	9974	10157	1.79	cps
Zirconium	90-1	60561	60915	60902	60793	0.33	cps
Zirconium	91-1	13587	13420	13757	13588	1.24	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	413	373	427	404	6.86	cps
Antimony	121-1	163	163	193	173	9.99	cps
Arsenic	75-2	0	7	7	4	86.60	cps
Barium	135-1	147	173	147	156	9.90	cps
Barium	137-1	273	267	260	267	2.50	cps
Beryllium	9-1	106	85	99	97	10.66	cps
Bismuth	209-1	5342988	5278335	5205629	5275651	1.30	cps
Bismuth	209-2	2663324	2645643	2666990	2658652	0.43	cps
Bromine	81-1	30934	30223	30553	30570	1.16	cps
Cadmium	108-1	17	40	13	23	62.27	cps
Cadmium	106-1	5294	4758	4721	4924	6.52	cps
Cadmium	111-1	3714	3329	3322	3455	6.50	cps
Calcium	43-1	1490	1530	1517	1512	1.35	cps
Calcium	44-1	49014	49616	49298	49309	0.61	cps
Carbon	12-1	4631916	4322345	4311930	4422064	4.11	cps
Carbon	12-2	29864	30378	29757	30000	1.11	cps
Chlorine	35-1	150948	151695	150454	151032	0.41	cps
Chlorine	35-2	703	753	813	757	7.28	cps
Chromium	52-2	1803	1603	1763	1723	6.14	cps
Cobalt	59-2	120	100	87	102	16.41	cps
Copper	63-2	3527	3681	3560	3589	2.25	cps
Dysprosium	156-1	7	20	10	12	56.76	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	70	60	80	70	14.29	cps
Erbium	164-2	30	20	27	26	19.92	cps
Gadolinium	160-1	77	73	80	77	4.35	cps
Gadolinium	160-2	20	20	17	19	10.18	cps
Holmium	165-1	8940096	8963494	8909829	8937806	0.30	cps
Holmium	165-2	3787714	3756349	3766306	3770123	0.43	cps
Indium	115-1	8160871	8202784	8080776	8148143	0.76	cps
Indium	115-2	1001210	987122	988271	992201	0.79	cps
Iron	54-2	1153	1127	1137	1139	1.18	cps
Iron	56-2	12666	12342	12579	12529	1.34	cps
Iron	57-2	277	290	317	294	6.92	cps
Krypton	83-1	387	393	390	390	0.85	cps
Lead	206-1	1077	1117	1100	1098	1.83	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	987	997	867	950	7.62	cps
Lead	208-1	4267	4267	4437	4324	2.27	cps
Lithium	6-1	2482860	2527108	2384754	2464907	2.96	cps
Magnesium	24-2	473	510	553	512	7.82	cps
Manganese	55-2	1127	1033	1107	1089	4.51	cps
Molybdenum	94-1	550	537	487	524	6.37	cps
Molybdenum	95-1	183	190	157	177	9.98	cps
Molybdenum	96-1	270	323	337	310	11.38	cps
Molybdenum	97-1	93	113	133	113	17.65	cps
Molybdenum	98-1	263	330	290	294	11.40	cps
Neodymium	150-1	17	7	23	16	53.90	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	1180	1223	1083	1162	6.17	cps
Phosphorus	31-2	173	127	123	141	19.81	cps
Potassium	39-2	23115	22681	22564	22787	1.27	cps
Rhodium	103-1	7719204	7778988	7694352	7730848	0.56	cps
Rhodium	103-2	3573950	3539312	3502486	3538583	1.01	cps
Scandium	45-1	5757277	5679146	5739004	5725142	0.71	cps
Scandium	45-2	133648	135938	133436	134341	1.03	cps
Selenium	82-1	3	-20	-3	-7	-180.26	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	37	53	27	39	34.63	cps
Silicon	28-1	559524	551863	562624	558004	0.99	cps
Silver	107-1	307	390	350	349	11.95	cps
Silver	109-1	247	193	223	221	12.09	cps
Sodium	23-2	59929	61178	60772	60626	1.05	cps
Strontium	86-1	630	700	667	666	5.26	cps
Strontium	88-1	660	680	750	697	6.78	cps
Sulfur	34-1	729681	733498	730010	731063	0.29	cps
Terbium	159-1	9088772	9202898	9204330	9165333	0.72	cps
Terbium	159-2	3746047	3636209	3705042	3695766	1.50	cps
Thallium	203-1	343	220	263	276	22.71	cps
Thallium	205-1	690	773	690	718	6.70	cps
Tin	118-1	4924	3927	4217	4356	11.77	cps
Titanium	47-1	370	380	283	344	15.43	cps
Uranium	238-1	117	187	157	153	22.90	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:20:54	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	17	37	21	65.74	cps
Ytterbium	172-1	50	67	53	57	15.57	cps
Ytterbium	172-2	13	20	17	17	20.01	cps
Ytterbium	176-1	1060	1027	1017	1035	2.19	cps
Ytterbium	176-2	213	287	273	258	15.15	cps
Yttrium	89-1	15010797	14760523	14986899	14919406	0.93	cps
Yttrium	89-2	1304228	1303079	1300375	1302560	0.15	cps
Zinc	66-2	3074	3100	3187	3120	1.90	cps
Zirconium	90-1	1223	1217	1230	1223	0.55	cps
Zirconium	91-1	210	300	273	261	17.71	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11270979	11210721	11218778	11233493	0.29	cps
Antimony	121-1	36024	35907	36515	36149	0.89	cps
Arsenic	75-2	270	180	230	227	19.90	cps
Barium	135-1	10104	10271	11115	10496	5.16	cps
Barium	137-1	18019	18329	17992	18113	1.03	cps
Beryllium	9-1	3128	3212	3212	3184	1.52	cps
Bismuth	209-1	4727353	4820580	4871807	4806580	1.52	cps
Bismuth	209-2	2318975	2343288	2352622	2338295	0.74	cps
Bromine	81-1	32742	32768	31833	32448	1.64	cps
Cadmium	108-1	8923	8576	8429	8643	2.93	cps
Cadmium	106-1	4584	4477	4451	4504	1.57	cps
Cadmium	111-1	7087	7385	6912	7128	3.36	cps
Calcium	43-1	10072348	10129898	10198762	10133669	0.62	cps
Calcium	44-1	165759031	164728571	168914614	166467405	1.31	cps
Carbon	12-1	61572729	61316052	63666969	62185250	2.07	cps
Carbon	12-2	435386	432613	430253	432750	0.59	cps
Chlorine	35-1	141357588	149644921	150465068	147155859	3.42	cps
Chlorine	35-2	757855	753143	759981	756993	0.46	cps
Chromium	52-2	152338	150350	152011	151566	0.70	cps
Cobalt	59-2	16123	16243	16006	16124	0.73	cps
Copper	63-2	81995	81813	82612	82140	0.51	cps
Dysprosium	156-1	120	113	140	124	11.15	cps
Dysprosium	156-2	47	57	37	47	21.43	cps
Erbium	164-1	177	137	180	164	14.66	cps
Erbium	164-2	83	57	60	67	21.79	cps
Gadolinium	160-1	193	163	200	186	10.52	cps
Gadolinium	160-2	67	73	103	81	24.08	cps
Holmium	165-1	8579349	8465186	8764627	8603054	1.76	cps
Holmium	165-2	3613213	3491005	3602592	3568936	1.90	cps
Indium	115-1	7591753	7601630	7571016	7588133	0.21	cps
Indium	115-2	890360	877629	880106	882698	0.76	cps
Iron	54-2	30572729	30172179	30164924	30303277	0.77	cps
Iron	56-2	564601565	565606045	555419205	561875605	1.00	cps
Iron	57-2	14171596	14030931	14099180	14100569	0.50	cps
Krypton	83-1	440	403	353	399	10.91	cps
Lead	206-1	92819	92618	93373	92937	0.42	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	72263	73165	73092	72840	0.69	cps
Lead	208-1	341029	349338	349705	346691	1.42	cps
Lithium	6-1	2381853	2384973	2412319	2393048	0.70	cps
Magnesium	24-2	40708407	40380724	39737892	40275674	1.23	cps
Manganese	55-2	26060	25924	25573	25852	0.97	cps
Molybdenum	94-1	17295654	17670423	17360113	17442063	1.15	cps
Molybdenum	95-1	30845475	31593945	30866910	31102110	1.37	cps
Molybdenum	96-1	33107134	33862975	33320897	33430335	1.17	cps
Molybdenum	97-1	19005448	19519937	19507244	19344210	1.52	cps
Molybdenum	98-1	49706478	49596396	50307931	49870268	0.77	cps
Neodymium	150-1	97	153	137	129	22.60	cps
Neodymium	150-2	67	43	43	51	26.37	cps
Nickel	60-2	22050	22882	23039	22657	2.34	cps
Phosphorus	31-2	659679	645200	650120	651666	1.13	cps
Potassium	39-2	30697432	30166410	30268132	30377325	0.93	cps
Rhodium	103-1	6787009	6797488	6972443	6852313	1.52	cps
Rhodium	103-2	3051474	3017221	2987939	3018878	1.05	cps
Scandium	45-1	5372810	5374452	5247649	5331637	1.36	cps
Scandium	45-2	126161	122311	124023	124165	1.55	cps
Selenium	82-1	33	-17	143	53	153.46	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	23	30	43	32	31.61	cps
Silicon	28-1	899456	994263	1034602	976107	7.11	cps
Silver	107-1	1640	1830	1763	1745	5.53	cps
Silver	109-1	1690	1490	1463	1548	8.00	cps
Sodium	23-2	87953479	87136575	85969132	87019729	1.15	cps
Strontium	86-1	340295	344508	346378	343727	0.91	cps
Strontium	88-1	3107238	3113496	3160121	3126952	0.92	cps
Sulfur	34-1	12962182	13049225	12865871	12959093	0.71	cps
Terbium	159-1	9010077	8859614	9066668	8978786	1.19	cps
Terbium	159-2	3483797	3512994	3502191	3499661	0.42	cps
Thallium	203-1	2304	2804	3380	2829	19.05	cps
Thallium	205-1	5261	7082	7946	6763	20.26	cps
Tin	118-1	8026	7462	7886	7791	3.77	cps
Titanium	47-1	9450735	9585295	9413825	9483285	0.95	cps
Uranium	238-1	1667	1827	1884	1792	6.27	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:30:15	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	953	897	940	930	3.19	cps
Ytterbium	172-1	103	110	90	101	10.07	cps
Ytterbium	172-2	50	50	43	48	8.06	cps
Ytterbium	176-1	1093	1053	1017	1055	3.64	cps
Ytterbium	176-2	243	293	333	290	15.55	cps
Yttrium	89-1	13986411	14106227	14346189	14146276	1.30	cps
Yttrium	89-2	1199272	1188288	1182075	1189878	0.73	cps
Zinc	66-2	19657	19370	19761	19596	1.03	cps
Zirconium	90-1	2450	2717	2954	2707	9.30	cps
Zirconium	91-1	637	613	600	617	3.01	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10422450	10400969	10545106	10456175	0.74	cps
Antimony	121-1	582601	584847	586204	584550	0.31	cps
Arsenic	75-2	14224	13657	14407	14096	2.78	cps
Barium	135-1	143524	144629	146556	144903	1.06	cps
Barium	137-1	248076	249959	249361	249132	0.39	cps
Beryllium	9-1	140649	141119	142068	141279	0.51	cps
Bismuth	209-1	4857031	4917111	4945900	4906681	0.92	cps
Bismuth	209-2	2347510	2361609	2345300	2351473	0.38	cps
Bromine	81-1	32735	32541	33149	32808	0.95	cps
Cadmium	108-1	17424	17001	17191	17205	1.23	cps
Cadmium	106-1	17107	17411	17378	17299	0.96	cps
Cadmium	111-1	140071	143962	142616	142216	1.39	cps
Calcium	43-1	9472310	9599939	9514718	9528989	0.68	cps
Calcium	44-1	154431851	158129108	154866744	155809234	1.30	cps
Carbon	12-1	58415262	60164036	60031194	59536831	1.64	cps
Carbon	12-2	424115	422599	422201	422972	0.24	cps
Chlorine	35-1	133746068	142305205	142996361	139682545	3.69	cps
Chlorine	35-2	711352	708402	715951	711902	0.53	cps
Chromium	52-2	280212	281392	279105	280236	0.41	cps
Cobalt	59-2	264821	265851	266711	265794	0.36	cps
Copper	63-2	269527	269185	267060	268591	0.50	cps
Dysprosium	156-1	113	107	157	126	21.62	cps
Dysprosium	156-2	53	37	30	40	30.04	cps
Erbium	164-1	177	207	120	168	26.23	cps
Erbium	164-2	50	80	80	70	24.74	cps
Gadolinium	160-1	157	163	113	144	18.79	cps
Gadolinium	160-2	63	87	93	81	19.42	cps
Holmium	165-1	8651124	8851370	8950748	8817747	1.73	cps
Holmium	165-2	3605399	3569380	3602001	3592260	0.55	cps
Indium	115-1	7553419	7820220	7694969	7689536	1.74	cps
Indium	115-2	885303	884223	891420	886982	0.44	cps
Iron	54-2	28116994	28679960	28488475	28428476	1.01	cps
Iron	56-2	532441139	518092552	532867245	527800312	1.59	cps
Iron	57-2	13235592	13237845	13315459	13262966	0.34	cps
Krypton	83-1	370	430	387	396	7.83	cps
Lead	206-1	453043	452380	457731	454384	0.64	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	375166	377401	382546	378371	1.00	cps
Lead	208-1	1726644	1757312	1761478	1748478	1.09	cps
Lithium	6-1	2449629	2560495	2505709	2505278	2.21	cps
Magnesium	24-2	37796983	37839206	37897470	37844553	0.13	cps
Manganese	55-2	82922	83895	82530	83116	0.85	cps
Molybdenum	94-1	16796707	16796222	17000178	16864369	0.70	cps
Molybdenum	95-1	29666261	29875078	29977663	29839667	0.53	cps
Molybdenum	96-1	31552611	32010150	32115081	31892614	0.94	cps
Molybdenum	97-1	18160393	18507438	18598661	18422164	1.26	cps
Molybdenum	98-1	47639396	47905558	48128018	47890990	0.51	cps
Neodymium	150-1	113	100	123	112	10.43	cps
Neodymium	150-2	40	30	20	30	33.33	cps
Nickel	60-2	87359	88372	89070	88267	0.97	cps
Phosphorus	31-2	607836	602598	602764	604399	0.49	cps
Potassium	39-2	28288960	28008291	28518969	28272073	0.90	cps
Rhodium	103-1	6912972	7089665	7101066	7034567	1.50	cps
Rhodium	103-2	3044070	3035406	3082314	3053930	0.82	cps
Scandium	45-1	5308475	5431672	5378508	5372885	1.15	cps
Scandium	45-2	121209	123424	123169	122601	0.99	cps
Selenium	82-1	8890	8870	9213	8991	2.14	cps
Selenium	77-2	170	187	197	184	7.30	cps
Selenium	78-2	663	690	677	677	1.97	cps
Silicon	28-1	971932	993914	981845	982564	1.12	cps
Silver	107-1	660082	660376	660989	660482	0.07	cps
Silver	109-1	622639	628718	630719	627359	0.67	cps
Sodium	23-2	81506489	80993544	81746320	81415451	0.47	cps
Strontium	86-1	327469	327902	330955	328775	0.58	cps
Strontium	88-1	2931851	2969365	3034363	2978526	1.74	cps
Sulfur	34-1	12231003	12378488	12274049	12294513	0.62	cps
Terbium	159-1	9167703	9257060	9027992	9150918	1.26	cps
Terbium	159-2	3528652	3509582	3543889	3527374	0.49	cps
Thallium	203-1	453326	453537	462768	456544	1.18	cps
Thallium	205-1	1072777	1080668	1091515	1081653	0.87	cps
Tin	118-1	7622	7902	7656	7727	1.98	cps
Titanium	47-1	8717376	8960489	8989944	8889270	1.68	cps
Uranium	238-1	2247	2160	2294	2234	3.03	cps

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:51:03	DataFile Name :	026ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	107201	107899	108897	107999	0.79	cps
Ytterbium	172-1	70	87	83	80	11.02	cps
Ytterbium	172-2	13	50	27	30	61.87	cps
Ytterbium	176-1	1040	1103	1153	1099	5.17	cps
Ytterbium	176-2	300	257	320	292	11.08	cps
Yttrium	89-1	14300746	14327226	14589194	14405722	1.11	cps
Yttrium	89-2	1189049	1185499	1196522	1190357	0.47	cps
Zinc	66-2	41223	40491	40668	40794	0.94	cps
Zirconium	90-1	2070	2087	2590	2249	13.14	cps
Zirconium	91-1	550	637	617	601	7.55	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6038113	6098048	6076393	6070852	0.50	cps
Antimony	121-1	14518161	14610389	14854624	14661058	1.19	cps
Arsenic	75-2	372219	369942	370268	370810	0.33	cps
Barium	135-1	17553719	17703857	18144822	17800799	1.73	cps
Barium	137-1	30511760	29836175	30809106	30385680	1.64	cps
Beryllium	9-1	3760899	3780752	3861552	3801068	1.40	cps
Bismuth	209-1	4535776	4489045	4548265	4524362	0.69	cps
Bismuth	209-2	2236169	2209351	2205740	2217086	0.75	cps
Bromine	81-1	32251	32872	32848	32657	1.08	cps
Cadmium	108-1	281090	287066	286906	285021	1.19	cps
Cadmium	106-1	404892	414023	414151	411022	1.29	cps
Cadmium	111-1	3603463	3587442	3661194	3617366	1.07	cps
Calcium	43-1	24684547	24922777	24471446	24692924	0.91	cps
Calcium	44-1	405254167	401460354	402383354	403032625	0.49	cps
Carbon	12-1	5645736	5682077	5624088	5650633	0.52	cps
Carbon	12-2	45373	45316	46115	45602	0.98	cps
Chlorine	35-1	6240845	5878717	5448185	5855916	6.78	cps
Chlorine	35-2	24531	22458	21389	22793	7.01	cps
Chromium	52-2	3873473	3819050	3835834	3842786	0.73	cps
Cobalt	59-2	6616546	6608089	6663111	6629249	0.45	cps
Copper	63-2	48344056	49256738	49330636	48977143	1.12	cps
Dysprosium	156-1	680	833	707	740	11.07	cps
Dysprosium	156-2	230	217	223	223	2.98	cps
Erbium	164-1	600	750	640	663	11.71	cps
Erbium	164-2	277	267	260	268	3.13	cps
Gadolinium	160-1	533	590	607	577	6.67	cps
Gadolinium	160-2	250	200	247	232	12.04	cps
Holmium	165-1	8277081	8335852	8294069	8302334	0.36	cps
Holmium	165-2	3495974	3469633	3511508	3492372	0.61	cps
Indium	115-1	6805218	6911574	7072145	6929646	1.94	cps
Indium	115-2	816007	810223	812271	812834	0.36	cps
Iron	54-2	38030879	38267340	37913703	38070641	0.47	cps
Iron	56-2	701019110	699548736	700980443	700516096	0.12	cps
Iron	57-2	17657632	17537324	17634266	17609741	0.36	cps
Krypton	83-1	373	460	440	424	10.69	cps
Lead	206-1	48034084	48158261	48405308	48199218	0.39	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	40401934	40727420	41384536	40837964	1.23	cps
Lead	208-1	187326367	188298243	191245559	188956723	1.08	cps
Lithium	6-1	2316790	2307838	2342790	2322473	0.78	cps
Magnesium	24-2	106844448	106326488	105322495	106164477	0.73	cps
Manganese	55-2	16285282	16137137	16491440	16304620	1.09	cps
Molybdenum	94-1	52936774	53939503	54155794	53677357	1.21	cps
Molybdenum	95-1	77301262	77731536	78210416	77747738	0.58	cps
Molybdenum	96-1	83610347	84544977	85088419	84414581	0.89	cps
Molybdenum	97-1	47515563	48079068	48117908	47904179	0.70	cps
Molybdenum	98-1	123588345	124043705	125758278	124463443	0.92	cps
Neodymium	150-1	1427	1463	1240	1377	8.70	cps
Neodymium	150-2	117	97	147	120	20.97	cps
Nickel	60-2	1823548	1833244	1826858	1827883	0.27	cps
Phosphorus	31-2	63656	63518	64499	63891	0.83	cps
Potassium	39-2	39087637	39223674	38402929	38904746	1.13	cps
Rhodium	103-1	6322831	6411517	6514088	6416145	1.49	cps
Rhodium	103-2	2890081	2929619	2881907	2900536	0.88	cps
Scandium	45-1	5115484	5103540	5153967	5124330	0.51	cps
Scandium	45-2	124500	123898	124016	124138	0.26	cps
Selenium	82-1	219256	219974	220816	220015	0.35	cps
Selenium	77-2	4691	4794	4931	4805	2.51	cps
Selenium	78-2	16657	16727	16049	16478	2.26	cps
Silicon	28-1	8807816	8794939	8788946	8797234	0.11	cps
Silver	107-1	17775371	17920645	17907375	17867797	0.45	cps
Silver	109-1	16713013	16920503	16846320	16826612	0.62	cps
Sodium	23-2	218470143	216190563	216328970	216996559	0.59	cps
Strontium	86-1	4969508	5104894	5125620	5066674	1.67	cps
Strontium	88-1	44135514	44247056	44872538	44418369	0.89	cps
Sulfur	34-1	1828951	1856917	1844362	1843410	0.76	cps
Terbium	159-1	8618416	8601752	8695171	8638446	0.58	cps
Terbium	159-2	3429690	3367170	3446953	3414604	1.23	cps
Thallium	203-1	11623789	11845576	11822297	11763887	1.04	cps
Thallium	205-1	27800471	27759308	28194822	27918200	0.86	cps
Tin	118-1	11886612	11997390	12163539	12015847	1.16	cps
Titanium	47-1	22716465	22831901	22721729	22756699	0.29	cps
Uranium	238-1	36223869	36554513	37001404	36593262	1.07	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:54:14	DataFile Name :	027CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2990214	2975970	2934557	2966914	0.97	cps
Ytterbium	172-1	880	1020	1083	994	10.46	cps
Ytterbium	172-2	450	517	513	493	7.61	cps
Ytterbium	176-1	59403	59801	60109	59771	0.59	cps
Ytterbium	176-2	24817	24346	24079	24414	1.53	cps
Yttrium	89-1	13612209	13916758	13883255	13804074	1.21	cps
Yttrium	89-2	1173188	1171321	1165217	1169908	0.36	cps
Zinc	66-2	5673957	5704349	5681719	5686675	0.28	cps
Zirconium	90-1	26751530	27435429	27479250	27222070	1.50	cps
Zirconium	91-1	5970430	6037483	6141374	6049762	1.42	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	507	630	550	562	11.13	cps
Antimony	121-1	1463	1510	1247	1407	9.99	cps
Arsenic	75-2	13	10	17	13	25.01	cps
Barium	135-1	263	283	263	270	4.28	cps
Barium	137-1	550	497	577	541	7.53	cps
Beryllium	9-1	258	249	230	246	5.81	cps
Bismuth	209-1	5466080	5348090	5377211	5397127	1.14	cps
Bismuth	209-2	2678502	2613257	2617195	2636318	1.39	cps
Bromine	81-1	30573	30774	30390	30579	0.63	cps
Cadmium	108-1	13	27	23	21	32.88	cps
Cadmium	106-1	5214	5034	5168	5139	1.82	cps
Cadmium	111-1	3761	3589	3678	3676	2.34	cps
Calcium	43-1	2694	2584	2724	2667	2.76	cps
Calcium	44-1	64722	63888	64705	64438	0.74	cps
Carbon	12-1	4850221	4634840	4534282	4673114	3.45	cps
Carbon	12-2	30625	29700	30184	30170	1.53	cps
Chlorine	35-1	2007606	1883015	1816227	1902283	5.11	cps
Chlorine	35-2	8036	7365	7329	7576	5.25	cps
Chromium	52-2	1717	1560	1597	1625	5.04	cps
Cobalt	59-2	133	180	140	151	16.70	cps
Copper	63-2	3277	3264	3204	3248	1.20	cps
Dysprosium	156-1	10	20	13	14	35.26	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	90	60	47	66	33.85	cps
Erbium	164-2	13	20	27	20	33.35	cps
Gadolinium	160-1	63	87	80	77	15.68	cps
Gadolinium	160-2	20	10	27	19	44.42	cps
Holmium	165-1	9057492	9127118	8886045	9023552	1.37	cps
Holmium	165-2	3731006	3852254	3790780	3791347	1.60	cps
Indium	115-1	8207602	8285423	8149436	8214154	0.83	cps
Indium	115-2	972854	970799	964386	969346	0.46	cps
Iron	54-2	1600	1410	1393	1468	7.82	cps
Iron	56-2	20345	19861	19664	19956	1.76	cps
Iron	57-2	523	483	513	507	4.11	cps
Krypton	83-1	403	403	443	417	5.54	cps
Lead	206-1	2677	2554	2647	2626	2.45	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2290	2237	2437	2321	4.46	cps
Lead	208-1	10689	10298	10522	10503	1.86	cps
Lithium	6-1	2704362	2755371	2707001	2722245	1.05	cps
Magnesium	24-2	1547	1687	1500	1578	6.16	cps
Manganese	55-2	993	1147	1170	1103	8.70	cps
Molybdenum	94-1	1687	1607	1557	1617	4.06	cps
Molybdenum	95-1	1347	1267	1317	1310	3.09	cps
Molybdenum	96-1	1420	1447	1403	1423	1.54	cps
Molybdenum	97-1	940	800	760	833	11.34	cps
Molybdenum	98-1	1970	1800	1890	1887	4.51	cps
Neodymium	150-1	7	10	13	10	33.30	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	960	953	1043	986	5.09	cps
Phosphorus	31-2	100	153	160	138	23.87	cps
Potassium	39-2	28188	27560	27627	27791	1.24	cps
Rhodium	103-1	7832185	7843342	7934183	7869903	0.71	cps
Rhodium	103-2	3544493	3577678	3432213	3518128	2.17	cps
Scandium	45-1	5614698	5646066	5656817	5639194	0.39	cps
Scandium	45-2	130321	131582	130365	130756	0.55	cps
Selenium	82-1	-57	-13	-37	-36	-61.01	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	33	43	23	33	30.00	cps
Silicon	28-1	567197	541316	566401	558305	2.64	cps
Silver	107-1	1007	950	1090	1016	6.93	cps
Silver	109-1	873	883	853	870	1.76	cps
Sodium	23-2	77906	76452	75005	76454	1.90	cps
Strontium	86-1	653	680	720	684	4.90	cps
Strontium	88-1	1330	1243	1310	1295	3.51	cps
Sulfur	34-1	735311	731586	728192	731696	0.49	cps
Terbium	159-1	9294213	9398021	9246887	9313040	0.83	cps
Terbium	159-2	3696155	3666939	3660735	3674610	0.51	cps
Thallium	203-1	1510	1370	1353	1411	6.10	cps
Thallium	205-1	3777	3440	3497	3572	5.05	cps
Tin	118-1	4244	4531	4151	4309	4.60	cps
Titanium	47-1	603	570	590	588	2.85	cps
Uranium	238-1	443	390	413	416	6.43	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 14:58:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	30	33	34	14.78	cps
Ytterbium	172-1	50	47	47	48	4.02	cps
Ytterbium	172-2	20	27	13	20	33.35	cps
Ytterbium	176-1	1060	1067	1113	1080	2.69	cps
Ytterbium	176-2	270	287	293	283	4.24	cps
Yttrium	89-1	14937887	14803301	15112308	14951165	1.04	cps
Yttrium	89-2	1274818	1263861	1257957	1265545	0.68	cps
Zinc	66-2	3537	3397	3620	3518	3.21	cps
Zirconium	90-1	2430	2377	2067	2291	8.56	cps
Zirconium	91-1	560	430	557	516	14.38	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3430	3294	3137	3287	4.47	cps
Antimony	121-1	65345	65539	67221	66035	1.56	cps
Arsenic	75-2	833	793	803	810	2.57	cps
Barium	135-1	78053	78972	78991	78672	0.68	cps
Barium	137-1	135052	134537	136368	135319	0.70	cps
Beryllium	9-1	8347	8502	8527	8459	1.15	cps
Bismuth	209-1	5401544	5409733	5384931	5398736	0.23	cps
Bismuth	209-2	2669671	2663284	2647496	2660150	0.43	cps
Bromine	81-1	31061	31024	30597	30894	0.84	cps
Cadmium	108-1	707	720	680	702	2.90	cps
Cadmium	106-1	6148	6335	6021	6168	2.56	cps
Cadmium	111-1	11962	12320	12378	12220	1.85	cps
Calcium	43-1	58689	59630	60520	59613	1.54	cps
Calcium	44-1	985332	995593	990500	990475	0.52	cps
Carbon	12-1	4813805	4715915	4600489	4710070	2.27	cps
Carbon	12-2	31093	31096	31173	31121	0.15	cps
Chlorine	35-1	1116097	1079999	1039093	1078396	3.57	cps
Chlorine	35-2	4744	4537	4421	4567	3.59	cps
Chromium	52-2	19303	18432	18923	18886	2.31	cps
Cobalt	59-2	16533	16673	15872	16359	2.61	cps
Copper	63-2	27079	27360	27430	27290	0.68	cps
Dysprosium	156-1	23	10	23	19	40.75	cps
Dysprosium	156-2	10	3	7	7	50.03	cps
Erbium	164-1	67	87	63	72	17.48	cps
Erbium	164-2	17	13	23	18	28.64	cps
Gadolinium	160-1	83	57	60	67	21.79	cps
Gadolinium	160-2	17	13	0	10	88.20	cps
Holmium	165-1	8961823	9106842	9116576	9061747	0.96	cps
Holmium	165-2	3847211	3774950	3741960	3788041	1.42	cps
Indium	115-1	8309260	8274090	8231440	8271597	0.47	cps
Indium	115-2	980451	977393	971670	976505	0.46	cps
Iron	54-2	19076	19060	18439	18858	1.93	cps
Iron	56-2	337064	335747	328299	333703	1.42	cps
Iron	57-2	8443	8423	8306	8390	0.88	cps
Krypton	83-1	373	300	387	353	13.21	cps
Lead	206-1	22750	22990	22723	22821	0.64	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19872	19551	20006	19810	1.18	cps
Lead	208-1	91233	91665	90704	91201	0.53	cps
Lithium	6-1	2676046	2682034	2641552	2666544	0.82	cps
Magnesium	24-2	253800	250214	245776	249930	1.61	cps
Manganese	55-2	4704	4671	4727	4701	0.61	cps
Molybdenum	94-1	71740	72032	71898	71890	0.20	cps
Molybdenum	95-1	85414	85829	86272	85838	0.50	cps
Molybdenum	96-1	96012	95367	95079	95486	0.50	cps
Molybdenum	97-1	52947	53870	53690	53502	0.91	cps
Molybdenum	98-1	135965	138435	139120	137840	1.20	cps
Neodymium	150-1	10	20	27	19	44.42	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	5368	5208	5498	5358	2.71	cps
Phosphorus	31-2	313	330	353	332	6.05	cps
Potassium	39-2	197495	197040	195546	196694	0.52	cps
Rhodium	103-1	7936355	7875668	7910791	7907604	0.39	cps
Rhodium	103-2	3482130	3525012	3466360	3491168	0.87	cps
Scandium	45-1	5712324	5844334	5680058	5745572	1.51	cps
Scandium	45-2	132171	130277	132440	131629	0.90	cps
Selenium	82-1	2554	2570	2694	2606	2.94	cps
Selenium	77-2	73	87	60	73	18.18	cps
Selenium	78-2	233	240	197	223	10.45	cps
Silicon	28-1	1171544	685050	687486	848026	33.04	cps
Silver	107-1	41141	41763	42168	41691	1.24	cps
Silver	109-1	39423	39510	39299	39411	0.27	cps
Sodium	23-2	576328	573536	569128	572997	0.63	cps
Strontium	86-1	11875	12549	11835	12086	3.32	cps
Strontium	88-1	100764	100562	101096	100807	0.27	cps
Sulfur	34-1	737014	740430	743361	740268	0.43	cps
Terbium	159-1	9310133	9455918	9422718	9396256	0.81	cps
Terbium	159-2	3699130	3672542	3674969	3682213	0.40	cps
Thallium	203-1	27058	27599	27543	27400	1.09	cps
Thallium	205-1	64851	65554	65354	65253	0.56	cps
Tin	118-1	138725	139610	141606	139980	1.05	cps
Titanium	47-1	26381	27209	26304	26631	1.88	cps
Uranium	238-1	78862	79671	81026	79853	1.37	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:02:16	DataFile Name :	029LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	33412	33489	32881	33261	1.00	cps
Ytterbium	172-1	57	77	53	62	20.29	cps
Ytterbium	172-2	37	20	13	23	51.52	cps
Ytterbium	176-1	1277	1267	1170	1238	4.76	cps
Ytterbium	176-2	310	300	233	281	14.83	cps
Yttrium	89-1	15134824	15206418	15237585	15192942	0.35	cps
Yttrium	89-2	1288117	1264447	1264237	1272267	1.08	cps
Zinc	66-2	10017	10120	10067	10068	0.51	cps
Zirconium	90-1	60410	61137	62935	61494	2.11	cps
Zirconium	91-1	13930	13533	13780	13748	1.46	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	633	560	577	590	6.52	cps
Antimony	121-1	367	327	283	326	12.80	cps
Arsenic	75-2	7	3	7	6	34.70	cps
Barium	135-1	197	147	153	166	16.40	cps
Barium	137-1	297	297	270	288	5.35	cps
Beryllium	9-1	107	104	118	110	6.87	cps
Bismuth	209-1	5486035	5420209	5366188	5424144	1.11	cps
Bismuth	209-2	2664546	2638625	2554655	2619275	2.19	cps
Bromine	81-1	30036	30079	29621	29912	0.84	cps
Cadmium	108-1	17	20	20	19	10.18	cps
Cadmium	106-1	4854	4898	5008	4920	1.61	cps
Cadmium	111-1	3443	3468	3521	3477	1.15	cps
Calcium	43-1	1467	1580	1417	1488	5.63	cps
Calcium	44-1	45335	44275	45235	44948	1.30	cps
Carbon	12-1	4720301	4547811	4470535	4579549	2.79	cps
Carbon	12-2	30131	30251	30064	30149	0.31	cps
Chlorine	35-1	728242	709850	703084	713725	1.82	cps
Chlorine	35-2	3377	3257	3030	3222	5.47	cps
Chromium	52-2	1767	1573	1677	1672	5.79	cps
Cobalt	59-2	110	77	117	101	21.19	cps
Copper	63-2	2927	2614	2904	2815	6.20	cps
Dysprosium	156-1	13	17	13	14	13.35	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	70	60	43	58	23.32	cps
Erbium	164-2	37	37	37	37	0.00	cps
Gadolinium	160-1	57	63	83	68	20.47	cps
Gadolinium	160-2	10	13	13	12	15.73	cps
Holmium	165-1	8885549	8949095	9088127	8974257	1.15	cps
Holmium	165-2	3700602	3792628	3699882	3731037	1.43	cps
Indium	115-1	8274019	8108937	8219689	8200882	1.03	cps
Indium	115-2	967610	967168	967207	967329	0.03	cps
Iron	54-2	1140	1060	1083	1094	3.76	cps
Iron	56-2	14284	14180	14444	14303	0.93	cps
Iron	57-2	373	327	280	327	14.28	cps
Krypton	83-1	413	383	317	371	13.33	cps
Lead	206-1	1437	1437	1330	1401	4.40	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1107	1137	1213	1152	4.77	cps
Lead	208-1	5521	5380	5401	5434	1.39	cps
Lithium	6-1	2644797	2538282	2668095	2617058	2.64	cps
Magnesium	24-2	913	713	820	816	12.27	cps
Manganese	55-2	1073	987	1087	1049	5.18	cps
Molybdenum	94-1	820	717	843	793	8.50	cps
Molybdenum	95-1	363	397	353	371	6.11	cps
Molybdenum	96-1	513	437	490	480	8.19	cps
Molybdenum	97-1	250	193	230	224	12.80	cps
Molybdenum	98-1	563	507	527	532	5.40	cps
Neodymium	150-1	10	3	17	10	66.70	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	1133	1037	1153	1108	5.63	cps
Phosphorus	31-2	163	157	140	153	7.84	cps
Potassium	39-2	25098	25189	25245	25178	0.29	cps
Rhodium	103-1	7921653	7816770	7795585	7844669	0.86	cps
Rhodium	103-2	3455789	3451851	3488169	3465269	0.58	cps
Scandium	45-1	5664830	5769880	5712408	5715706	0.92	cps
Scandium	45-2	131838	130109	132383	131443	0.90	cps
Selenium	82-1	-53	60	90	32	234.58	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	43	30	37	37	18.18	cps
Silicon	28-1	539650	542217	537547	539805	0.43	cps
Silver	107-1	390	410	343	381	8.98	cps
Silver	109-1	323	310	303	312	3.26	cps
Sodium	23-2	68593	68714	68379	68562	0.25	cps
Strontium	86-1	673	663	570	636	8.97	cps
Strontium	88-1	623	753	703	693	9.46	cps
Sulfur	34-1	738915	735256	733301	735824	0.39	cps
Terbium	159-1	9449463	9392328	9469989	9437260	0.43	cps
Terbium	159-2	3639256	3645625	3646391	3643758	0.11	cps
Thallium	203-1	613	623	570	602	4.71	cps
Thallium	205-1	1477	1460	1537	1491	2.70	cps
Tin	118-1	4451	4895	3857	4401	11.83	cps
Titanium	47-1	403	453	423	427	5.90	cps
Uranium	238-1	173	133	150	152	13.20	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BL	Instrumnet Name :	P8
Client Sample ID :	PB167465BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:07:09	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	33	13	21	50.75	cps
Ytterbium	172-1	83	50	47	60	33.79	cps
Ytterbium	172-2	30	17	27	24	28.38	cps
Ytterbium	176-1	1053	1033	1210	1099	8.80	cps
Ytterbium	176-2	247	247	270	254	5.30	cps
Yttrium	89-1	15145120	14879944	15284442	15103169	1.36	cps
Yttrium	89-2	1273508	1257677	1255941	1262375	0.77	cps
Zinc	66-2	3277	3297	3154	3243	2.39	cps
Zirconium	90-1	1623	1670	1503	1599	5.38	cps
Zirconium	91-1	307	307	337	317	5.47	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1267666	1299151	1256953	1274590	1.72	cps
Antimony	121-1	15668378	15664149	15757923	15696817	0.34	cps
Arsenic	75-2	388894	389403	390223	389507	0.17	cps
Barium	135-1	18491511	18790495	18957932	18746646	1.26	cps
Barium	137-1	31538938	32211010	32845135	32198361	2.03	cps
Beryllium	9-1	4018086	4114380	4050673	4061046	1.21	cps
Bismuth	209-1	5019779	5093326	5086329	5066478	0.80	cps
Bismuth	209-2	2473314	2465875	2458956	2466048	0.29	cps
Bromine	81-1	30249	30714	30513	30492	0.76	cps
Cadmium	108-1	307029	315585	311397	311337	1.37	cps
Cadmium	106-1	445042	453815	455639	451499	1.25	cps
Cadmium	111-1	3984310	3939522	4044206	3989346	1.32	cps
Calcium	43-1	5247767	5361888	5285104	5298253	1.10	cps
Calcium	44-1	85049245	87009245	86411195	86156562	1.17	cps
Carbon	12-1	5625814	5797156	5799063	5740678	1.73	cps
Carbon	12-2	42896	43334	43658	43296	0.88	cps
Chlorine	35-1	633363	642300	634111	636591	0.78	cps
Chlorine	35-2	3010	3017	2940	2989	1.42	cps
Chromium	52-2	4026937	4010915	3922022	3986625	1.42	cps
Cobalt	59-2	7257872	7223266	7169812	7216983	0.61	cps
Copper	63-2	55031356	54541761	54282576	54618564	0.70	cps
Dysprosium	156-1	337	340	287	321	9.30	cps
Dysprosium	156-2	63	40	67	57	25.64	cps
Erbium	164-1	227	190	223	213	9.51	cps
Erbium	164-2	90	70	77	79	12.91	cps
Gadolinium	160-1	220	143	150	171	24.82	cps
Gadolinium	160-2	103	67	50	73	37.20	cps
Holmium	165-1	8866613	8954421	8932327	8917787	0.51	cps
Holmium	165-2	3766583	3701840	3667113	3711845	1.36	cps
Indium	115-1	7718856	7625822	7667019	7670566	0.61	cps
Indium	115-2	870776	879577	873735	874696	0.51	cps
Iron	54-2	8048665	8162038	7992137	8067613	1.07	cps
Iron	56-2	146608291	149623654	147635764	147955903	1.04	cps
Iron	57-2	3785421	3800194	3719184	3768266	1.14	cps
Krypton	83-1	400	457	427	428	6.63	cps
Lead	206-1	51186273	51263821	51621194	51357096	0.45	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	43360938	43405276	44613988	43793400	1.62	cps
Lead	208-1	200051405	202191885	204385704	202209665	1.07	cps
Lithium	6-1	2621176	2591201	2543614	2585330	1.51	cps
Magnesium	24-2	22766245	23166728	22900250	22944408	0.89	cps
Manganese	55-2	16912793	17216318	16848302	16992471	1.16	cps
Molybdenum	94-1	55672029	56931041	57156221	56586430	1.41	cps
Molybdenum	95-1	81462469	81893555	83167550	82174525	1.08	cps
Molybdenum	96-1	88526625	89265559	90462622	89418269	1.09	cps
Molybdenum	97-1	50162129	50386069	50602871	50383690	0.44	cps
Molybdenum	98-1	128982918	131619568	131840378	130814288	1.22	cps
Neodymium	150-1	1107	1197	1243	1182	5.88	cps
Neodymium	150-2	47	80	70	66	26.09	cps
Nickel	60-2	2041240	2046838	1982731	2023603	1.75	cps
Phosphorus	31-2	68584	67771	66595	67650	1.48	cps
Potassium	39-2	8193052	8227129	8215789	8211990	0.21	cps
Rhodium	103-1	7223970	7359649	7394059	7325893	1.23	cps
Rhodium	103-2	3235936	3272167	3262855	3256986	0.58	cps
Scandium	45-1	5549212	5569142	5592875	5570410	0.39	cps
Scandium	45-2	134623	132467	131956	133015	1.06	cps
Selenium	82-1	235950	242851	242440	240414	1.61	cps
Selenium	77-2	5061	5304	5151	5172	2.38	cps
Selenium	78-2	17094	17491	17187	17257	1.20	cps
Silicon	28-1	10599592	10724441	10987595	10770542	1.84	cps
Silver	107-1	20055949	20191938	20032937	20093608	0.43	cps
Silver	109-1	18706229	19087177	19233631	19009012	1.43	cps
Sodium	23-2	46673351	47083504	46790541	46849132	0.45	cps
Strontium	86-1	5324448	5372411	5335210	5344023	0.47	cps
Strontium	88-1	46567619	46546598	46592048	46568755	0.05	cps
Sulfur	34-1	2005427	1993719	1977729	1992291	0.70	cps
Terbium	159-1	9233469	9455211	9317313	9335331	1.20	cps
Terbium	159-2	3613051	3538232	3550586	3567290	1.12	cps
Thallium	203-1	12486604	12691817	12690801	12623074	0.94	cps
Thallium	205-1	29102540	29949660	30102371	29718190	1.81	cps
Tin	118-1	12768964	12877470	12989224	12878553	0.86	cps
Titanium	47-1	23768295	24044312	24172631	23995079	0.86	cps
Uranium	238-1	37422828	38429651	38450087	38100855	1.54	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167465BS	Instrumnet Name :	P8
Client Sample ID :	PB167465BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:12:37	DataFile Name :	031LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3056449	3063126	2992009	3037195	1.29	cps
Ytterbium	172-1	257	247	250	251	2.03	cps
Ytterbium	172-2	110	127	113	117	7.56	cps
Ytterbium	176-1	60789	61603	62654	61682	1.52	cps
Ytterbium	176-2	23792	23675	23705	23724	0.26	cps
Yttrium	89-1	14761098	15028247	14935864	14908403	0.91	cps
Yttrium	89-2	1241600	1245486	1245506	1244197	0.18	cps
Zinc	66-2	6169597	6202369	6211649	6194538	0.36	cps
Zirconium	90-1	28223933	28615270	28113635	28317612	0.93	cps
Zirconium	91-1	6201964	6341143	6374169	6305759	1.45	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	500	607	663	590	14.06	cps
Antimony	121-1	1383	1367	1173	1308	8.93	cps
Arsenic	75-2	3	13	13	10	57.75	cps
Barium	135-1	310	280	263	284	8.31	cps
Barium	137-1	553	530	440	508	11.79	cps
Beryllium	9-1	236	211	231	226	5.90	cps
Bismuth	209-1	5397616	5354207	5468543	5406788	1.07	cps
Bismuth	209-2	2643277	2608999	2595812	2616030	0.94	cps
Bromine	81-1	30330	31131	30574	30678	1.34	cps
Cadmium	108-1	33	33	20	29	26.64	cps
Cadmium	106-1	5321	5261	4938	5173	3.99	cps
Cadmium	111-1	3828	3756	3556	3713	3.80	cps
Calcium	43-1	1453	1367	1327	1382	4.68	cps
Calcium	44-1	45689	45111	44446	45082	1.38	cps
Carbon	12-1	4680796	4544986	4468842	4564875	2.35	cps
Carbon	12-2	30472	29937	30468	30292	1.02	cps
Chlorine	35-1	494228	487333	481343	487634	1.32	cps
Chlorine	35-2	2267	2227	2307	2267	1.76	cps
Chromium	52-2	1847	1830	1683	1787	5.03	cps
Cobalt	59-2	130	127	153	137	10.63	cps
Copper	63-2	3154	3244	2994	3130	4.05	cps
Dysprosium	156-1	13	13	20	16	24.76	cps
Dysprosium	156-2	7	0	3	3	100.05	cps
Erbium	164-1	33	73	70	59	37.69	cps
Erbium	164-2	30	10	17	19	53.91	cps
Gadolinium	160-1	57	83	77	72	19.21	cps
Gadolinium	160-2	17	13	20	17	20.01	cps
Holmium	165-1	8903327	8992348	9048089	8981254	0.81	cps
Holmium	165-2	3716284	3705294	3703705	3708428	0.18	cps
Indium	115-1	8316300	8234054	8229274	8259876	0.59	cps
Indium	115-2	951054	954781	956566	954134	0.29	cps
Iron	54-2	1083	1047	1167	1099	5.60	cps
Iron	56-2	13597	13396	14234	13742	3.18	cps
Iron	57-2	330	360	320	337	6.18	cps
Krypton	83-1	330	387	313	343	11.20	cps
Lead	206-1	2597	2434	2257	2429	7.00	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2267	2087	1987	2114	6.71	cps
Lead	208-1	10425	9638	9178	9747	6.47	cps
Lithium	6-1	2502287	2621614	2521745	2548549	2.51	cps
Magnesium	24-2	787	843	930	853	8.46	cps
Manganese	55-2	1053	1040	1087	1060	2.27	cps
Molybdenum	94-1	1667	1583	1423	1558	7.94	cps
Molybdenum	95-1	1293	1253	1010	1186	12.93	cps
Molybdenum	96-1	1523	1383	1333	1413	6.97	cps
Molybdenum	97-1	817	727	683	742	9.16	cps
Molybdenum	98-1	2070	1640	1637	1782	13.99	cps
Neodymium	150-1	10	10	20	13	43.30	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1023	970	963	986	3.34	cps
Phosphorus	31-2	130	117	113	120	7.35	cps
Potassium	39-2	25539	25309	24915	25254	1.25	cps
Rhodium	103-1	7814806	7851737	7916126	7860890	0.65	cps
Rhodium	103-2	3497708	3476932	3524015	3499552	0.67	cps
Scandium	45-1	5672255	5711524	5845808	5743195	1.58	cps
Scandium	45-2	132026	130294	129733	130685	0.91	cps
Selenium	82-1	117	3	70	63	89.94	cps
Selenium	77-2	3	0	10	4	114.60	cps
Selenium	78-2	37	17	23	26	39.85	cps
Silicon	28-1	590283	567218	552852	570118	3.31	cps
Silver	107-1	1000	930	833	921	9.09	cps
Silver	109-1	847	743	620	737	15.40	cps
Sodium	23-2	75145	73718	73755	74206	1.10	cps
Strontium	86-1	750	607	710	689	10.74	cps
Strontium	88-1	1107	1033	1023	1054	4.32	cps
Sulfur	34-1	701707	701084	701678	701490	0.05	cps
Terbium	159-1	9491911	9358819	9460089	9436940	0.74	cps
Terbium	159-2	3614292	3636391	3627577	3626087	0.31	cps
Thallium	203-1	717	773	790	760	5.06	cps
Thallium	205-1	1870	1813	1857	1847	1.60	cps
Tin	118-1	4277	4307	3921	4168	5.16	cps
Titanium	47-1	663	573	607	614	7.41	cps
Uranium	238-1	463	453	407	441	6.86	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BL	Instrumnet Name :	P8
Client Sample ID :	PB167502BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:17:03	DataFile Name :	032CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	30	57	36	53.31	cps
Ytterbium	172-1	93	33	70	66	46.14	cps
Ytterbium	172-2	30	13	17	20	44.10	cps
Ytterbium	176-1	1013	1137	1033	1061	6.24	cps
Ytterbium	176-2	233	250	233	239	4.03	cps
Yttrium	89-1	15038987	15551295	14982475	15190919	2.06	cps
Yttrium	89-2	1254465	1261707	1248423	1254865	0.53	cps
Zinc	66-2	3190	3340	3494	3342	4.54	cps
Zirconium	90-1	2690	2294	2410	2465	8.27	cps
Zirconium	91-1	557	497	490	514	7.14	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1286493	1250849	1275203	1270848	1.43	cps
Antimony	121-1	15628253	15731000	15720001	15693085	0.36	cps
Arsenic	75-2	390972	390873	390707	390851	0.03	cps
Barium	135-1	18774809	18673665	18540020	18662831	0.63	cps
Barium	137-1	31625975	31721895	32099014	31815628	0.79	cps
Beryllium	9-1	3924255	3932441	4079417	3978704	2.19	cps
Bismuth	209-1	4946897	5060999	5073155	5027017	1.39	cps
Bismuth	209-2	2419864	2399434	2408371	2409223	0.43	cps
Bromine	81-1	31001	31061	29915	30659	2.10	cps
Cadmium	108-1	307734	310631	312968	310445	0.84	cps
Cadmium	106-1	443075	454516	447252	448281	1.29	cps
Cadmium	111-1	3894448	4063624	3956284	3971452	2.16	cps
Calcium	43-1	5243436	5483231	5464332	5397000	2.47	cps
Calcium	44-1	87019262	88490819	88406745	87972275	0.94	cps
Carbon	12-1	5750118	5852122	5922847	5841696	1.49	cps
Carbon	12-2	43564	43695	44119	43793	0.66	cps
Chlorine	35-1	494076	496127	499255	496486	0.53	cps
Chlorine	35-2	2417	2317	2484	2406	3.49	cps
Chromium	52-2	3988101	4015562	3956087	3986583	0.75	cps
Cobalt	59-2	7112130	7196473	7127046	7145216	0.63	cps
Copper	63-2	54994013	55347713	54377858	54906528	0.89	cps
Dysprosium	156-1	340	317	360	339	6.40	cps
Dysprosium	156-2	37	57	67	53	28.64	cps
Erbium	164-1	257	203	230	230	11.59	cps
Erbium	164-2	57	83	67	69	19.55	cps
Gadolinium	160-1	187	157	157	167	10.39	cps
Gadolinium	160-2	63	67	63	64	2.99	cps
Holmium	165-1	8884649	8770724	8941180	8865517	0.98	cps
Holmium	165-2	3674908	3636099	3607708	3639572	0.93	cps
Indium	115-1	7531470	7782548	7621874	7645298	1.66	cps
Indium	115-2	865097	872994	864413	867501	0.55	cps
Iron	54-2	8014688	8120375	8030171	8055078	0.71	cps
Iron	56-2	145473885	145199238	146419568	145697563	0.44	cps
Iron	57-2	3801465	3736435	3759126	3765675	0.88	cps
Krypton	83-1	447	387	390	408	8.27	cps
Lead	206-1	50427473	51983903	51695399	51368925	1.61	cps

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	42918938	43383794	43251851	43184861	0.55	cps
Lead	208-1	198777955	200941385	202361369	200693570	0.90	cps
Lithium	6-1	2446165	2412152	2520890	2459736	2.26	cps
Magnesium	24-2	23294158	22907403	22830325	23010629	1.08	cps
Manganese	55-2	16987679	16968152	16911197	16955676	0.23	cps
Molybdenum	94-1	56498919	56683754	57344959	56842544	0.78	cps
Molybdenum	95-1	81547452	80386712	83047544	81660569	1.63	cps
Molybdenum	96-1	86601832	89358079	90077719	88679210	2.07	cps
Molybdenum	97-1	49309129	50864824	50593901	50255951	1.65	cps
Molybdenum	98-1	129002378	131251511	130452378	130235423	0.88	cps
Neodymium	150-1	1167	1130	1217	1171	3.72	cps
Neodymium	150-2	70	50	77	66	21.17	cps
Nickel	60-2	2027584	2011344	1961330	2000086	1.73	cps
Phosphorus	31-2	68595	66876	66023	67164	1.95	cps
Potassium	39-2	8251638	8212316	8268871	8244275	0.35	cps
Rhodium	103-1	7255183	7298874	7148667	7234241	1.07	cps
Rhodium	103-2	3207301	3242115	3211082	3220166	0.59	cps
Scandium	45-1	5543655	5653252	5585857	5594254	0.99	cps
Scandium	45-2	133205	133460	133217	133294	0.11	cps
Selenium	82-1	236735	242370	243372	240826	1.49	cps
Selenium	77-2	4958	4898	5038	4964	1.42	cps
Selenium	78-2	17241	17307	17491	17346	0.75	cps
Silicon	28-1	10826192	10889920	10771682	10829265	0.55	cps
Silver	107-1	19914112	20303086	20257683	20158294	1.06	cps
Silver	109-1	18675875	18744140	18750476	18723497	0.22	cps
Sodium	23-2	47798828	47030289	47026301	47285139	0.94	cps
Strontium	86-1	5225333	5383737	5312424	5307165	1.49	cps
Strontium	88-1	46050154	46320724	46473668	46281515	0.46	cps
Sulfur	34-1	1990802	1983407	1960467	1978226	0.80	cps
Terbium	159-1	8921736	9122662	9347051	9130483	2.33	cps
Terbium	159-2	3566043	3571809	3528889	3555580	0.66	cps
Thallium	203-1	12279594	12836926	12710659	12609060	2.32	cps
Thallium	205-1	28942337	29862369	30220320	29675009	2.22	cps
Tin	118-1	12801601	13108981	12969719	12960101	1.19	cps
Titanium	47-1	24185851	24451899	24234150	24290634	0.58	cps
Uranium	238-1	37415211	37575336	38208477	37733008	1.11	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502BS	Instrumnet Name :	P8
Client Sample ID :	PB167502BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:22:30	DataFile Name :	033LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3045336	3097876	3048096	3063769	0.97	cps
Ytterbium	172-1	237	290	253	260	10.50	cps
Ytterbium	172-2	107	100	120	109	9.35	cps
Ytterbium	176-1	59828	60531	59031	59797	1.25	cps
Ytterbium	176-2	24580	23598	24042	24073	2.04	cps
Yttrium	89-1	14500907	15007129	14983084	14830373	1.93	cps
Yttrium	89-2	1223066	1235841	1212508	1223805	0.95	cps
Zinc	66-2	6188484	6269932	6119437	6192618	1.22	cps
Zirconium	90-1	28030541	28514698	28539671	28361637	1.01	cps
Zirconium	91-1	6267886	6311026	6463632	6347515	1.62	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	547	630	527	568	9.65	cps
Antimony	121-1	740	533	623	632	16.39	cps
Arsenic	75-2	7	7	7	7	0.00	cps
Barium	135-1	210	200	210	207	2.79	cps
Barium	137-1	303	380	357	347	11.34	cps
Beryllium	9-1	154	139	161	151	7.21	cps
Bismuth	209-1	5438522	5445031	5477827	5453793	0.39	cps
Bismuth	209-2	2637463	2633541	2576643	2615882	1.30	cps
Bromine	81-1	30974	30851	30537	30787	0.73	cps
Cadmium	108-1	20	10	23	18	39.03	cps
Cadmium	106-1	4964	4908	5464	5112	6.00	cps
Cadmium	111-1	3518	3488	3832	3613	5.28	cps
Calcium	43-1	1513	1667	1420	1533	8.12	cps
Calcium	44-1	46244	46552	46235	46344	0.39	cps
Carbon	12-1	4742568	4590396	4607303	4646756	1.79	cps
Carbon	12-2	30448	30181	30615	30415	0.72	cps
Chlorine	35-1	346237	342322	344627	344396	0.57	cps
Chlorine	35-2	1650	1470	1873	1665	12.14	cps
Chromium	52-2	1737	1703	1690	1710	1.41	cps
Cobalt	59-2	93	117	143	118	21.25	cps
Copper	63-2	2794	2884	2827	2835	1.61	cps
Dysprosium	156-1	7	27	13	16	65.47	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	63	63	67	64	2.99	cps
Erbium	164-2	40	27	27	31	24.74	cps
Gadolinium	160-1	77	67	57	67	15.00	cps
Gadolinium	160-2	3	17	27	16	75.27	cps
Holmium	165-1	9051890	9094408	9054021	9066773	0.26	cps
Holmium	165-2	3707695	3759527	3796470	3754564	1.19	cps
Indium	115-1	8384885	8555176	8345088	8428383	1.32	cps
Indium	115-2	967721	964903	968828	967151	0.21	cps
Iron	54-2	1230	1110	1163	1168	5.15	cps
Iron	56-2	13310	12929	13330	13190	1.71	cps
Iron	57-2	323	353	293	323	9.28	cps
Krypton	83-1	383	397	373	384	3.05	cps
Lead	206-1	1640	1870	1740	1750	6.59	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1523	1510	1557	1530	1.57	cps
Lead	208-1	7098	6787	6931	6939	2.24	cps
Lithium	6-1	2563333	2542226	2573631	2559730	0.63	cps
Magnesium	24-2	890	793	763	816	8.12	cps
Manganese	55-2	1183	1060	1057	1100	6.56	cps
Molybdenum	94-1	1163	1147	1113	1141	2.23	cps
Molybdenum	95-1	653	700	573	642	9.98	cps
Molybdenum	96-1	897	770	780	816	8.64	cps
Molybdenum	97-1	373	310	337	340	9.35	cps
Molybdenum	98-1	1007	933	797	912	11.68	cps
Neodymium	150-1	13	3	3	7	86.65	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1047	990	1187	1074	9.42	cps
Phosphorus	31-2	140	103	93	112	21.90	cps
Potassium	39-2	25436	24795	25376	25202	1.41	cps
Rhodium	103-1	7909609	7896297	8066663	7957523	1.19	cps
Rhodium	103-2	3468513	3533501	3498811	3500275	0.93	cps
Scandium	45-1	5938886	5864067	5803198	5868717	1.16	cps
Scandium	45-2	132989	132262	132918	132723	0.30	cps
Selenium	82-1	-20	-47	0	-22	-105.36	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	37	20	17	24	43.83	cps
Silicon	28-1	554359	549244	555300	552968	0.59	cps
Silver	107-1	403	377	490	423	14.00	cps
Silver	109-1	340	293	320	318	7.37	cps
Sodium	23-2	74304	74013	73745	74021	0.38	cps
Strontium	86-1	663	720	747	710	5.99	cps
Strontium	88-1	853	820	877	850	3.35	cps
Sulfur	34-1	722438	718796	718772	720002	0.29	cps
Terbium	159-1	9423679	9533942	9404821	9454147	0.74	cps
Terbium	159-2	3575204	3642431	3701739	3639791	1.74	cps
Thallium	203-1	457	477	460	464	2.31	cps
Thallium	205-1	1097	1130	1047	1091	3.84	cps
Tin	118-1	4301	4344	4021	4222	4.16	cps
Titanium	47-1	523	553	493	523	5.73	cps
Uranium	238-1	270	240	243	251	6.55	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	PB167502TB	Instrumnet Name :	P8
Client Sample ID :	PB167502TB	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 15:33:29	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	23	40	33	26.47	cps
Ytterbium	172-1	43	67	73	61	25.78	cps
Ytterbium	172-2	10	30	17	19	53.91	cps
Ytterbium	176-1	1060	1120	1050	1077	3.52	cps
Ytterbium	176-2	220	250	263	244	9.08	cps
Yttrium	89-1	15547595	15314409	15509931	15457311	0.81	cps
Yttrium	89-2	1261928	1270090	1275195	1269071	0.53	cps
Zinc	66-2	3140	3417	3007	3188	6.56	cps
Zirconium	90-1	2170	2310	2137	2206	4.17	cps
Zirconium	91-1	460	463	443	456	2.35	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1640069	1636761	1586496	1621109	1.85	cps
Antimony	121-1	437	300	367	368	18.58	cps
Arsenic	75-2	983	960	950	964	1.77	cps
Barium	135-1	184881	185721	188884	186495	1.13	cps
Barium	137-1	323586	319521	323118	322075	0.69	cps
Beryllium	9-1	891	920	946	919	2.97	cps
Bismuth	209-1	5188625	5229141	5103215	5173660	1.24	cps
Bismuth	209-2	2470002	2516494	2502676	2496391	0.96	cps
Bromine	81-1	30984	31960	32254	31733	2.09	cps
Cadmium	108-1	53	83	50	62	29.50	cps
Cadmium	106-1	6258	6178	6055	6164	1.66	cps
Cadmium	111-1	4927	4850	4827	4868	1.08	cps
Calcium	43-1	2714524	2810584	2818015	2781041	2.08	cps
Calcium	44-1	44029318	45333903	44935493	44766238	1.49	cps
Carbon	12-1	5063835	5086375	4956297	5035502	1.38	cps
Carbon	12-2	37311	37204	37180	37232	0.19	cps
Chlorine	35-1	273677	273011	274159	273616	0.21	cps
Chlorine	35-2	1513	1263	1270	1349	10.56	cps
Chromium	52-2	47291	48472	46462	47408	2.13	cps
Cobalt	59-2	361837	362824	359762	361475	0.43	cps
Copper	63-2	206020	205072	204386	205159	0.40	cps
Dysprosium	156-1	165506	162859	166493	164953	1.14	cps
Dysprosium	156-2	64776	62944	62659	63460	1.81	cps
Erbium	164-1	174262	175889	175552	175235	0.49	cps
Erbium	164-2	69390	67902	66910	68067	1.83	cps
Gadolinium	160-1	157974	156351	159795	158040	1.09	cps
Gadolinium	160-2	75472	74922	73534	74643	1.34	cps
Holmium	165-1	9216487	9196652	9134409	9182516	0.47	cps
Holmium	165-2	3770794	3699697	3709616	3726702	1.03	cps
Indium	115-1	8111956	8204994	8053875	8123608	0.94	cps
Indium	115-2	955627	945703	952180	951170	0.53	cps
Iron	54-2	22135861	21940508	21657250	21911206	1.10	cps
Iron	56-2	407763887	397745727	393221221	399576945	1.86	cps
Iron	57-2	10289459	10250338	10054830	10198209	1.23	cps
Krypton	83-1	657	737	677	690	6.03	cps
Lead	206-1	8916	8983	8853	8918	0.73	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7476	7622	7125	7408	3.45	cps
Lead	208-1	34715	34995	34869	34860	0.40	cps
Lithium	6-1	2427270	2393779	2458758	2426602	1.34	cps
Magnesium	24-2	9250031	9340733	9100463	9230409	1.31	cps
Manganese	55-2	2458398	2424525	2384854	2422592	1.52	cps
Molybdenum	94-1	2620	2857	2767	2748	4.35	cps
Molybdenum	95-1	1033	1140	1193	1122	7.26	cps
Molybdenum	96-1	6235	5975	6081	6097	2.14	cps
Molybdenum	97-1	750	974	713	812	17.34	cps
Molybdenum	98-1	1617	1583	1563	1588	1.70	cps
Neodymium	150-1	179591	184974	179612	181392	1.71	cps
Neodymium	150-2	51371	51749	50712	51277	1.02	cps
Nickel	60-2	108946	107448	107234	107876	0.86	cps
Phosphorus	31-2	1133	1190	1197	1173	2.97	cps
Potassium	39-2	196577	193729	193131	194479	0.95	cps
Rhodium	103-1	7754814	7430938	7751772	7645841	2.43	cps
Rhodium	103-2	3376536	3373578	3319950	3356688	0.95	cps
Scandium	45-1	5897119	5826033	5973061	5898737	1.25	cps
Scandium	45-2	134345	134277	133486	134036	0.36	cps
Selenium	82-1	330	363	367	353	5.74	cps
Selenium	77-2	357	330	287	324	10.89	cps
Selenium	78-2	243	223	253	240	6.36	cps
Silicon	28-1	213493983	215055150	201872210	210140448	3.43	cps
Silver	107-1	283	290	223	266	13.83	cps
Silver	109-1	127	170	180	159	17.84	cps
Sodium	23-2	6595475	6622379	6414191	6544015	1.73	cps
Strontium	86-1	737217	751487	745215	744640	0.96	cps
Strontium	88-1	6671150	6885436	6652977	6736521	1.92	cps
Sulfur	34-1	11049166	11011364	11015563	11025365	0.19	cps
Terbium	159-1	9247359	9264421	9332128	9281303	0.48	cps
Terbium	159-2	3668162	3592248	3626391	3628934	1.05	cps
Thallium	203-1	550	570	537	552	3.04	cps
Thallium	205-1	1203	1203	1307	1238	4.82	cps
Tin	118-1	6191	5698	6245	6045	4.99	cps
Titanium	47-1	5881	5494	5738	5705	3.43	cps
Uranium	238-1	80258	79212	79352	79607	0.71	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:55:49	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	646715	640869	637659	641747	0.72	cps
Ytterbium	172-1	56908	56550	56794	56751	0.32	cps
Ytterbium	172-2	26907	26166	26052	26375	1.76	cps
Ytterbium	176-1	34652	35568	36022	35414	1.97	cps
Ytterbium	176-2	17211	16524	16784	16840	2.06	cps
Yttrium	89-1	18656327	18896322	18592874	18715175	0.86	cps
Yttrium	89-2	1639429	1607985	1650982	1632798	1.36	cps
Zinc	66-2	195458	193701	190931	193363	1.18	cps
Zirconium	90-1	4808	5448	5228	5161	6.30	cps
Zirconium	91-1	1103	1120	1207	1143	4.85	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1123423	1126694	1118587	1122902	0.36	cps
Antimony	121-1	267	297	360	308	15.48	cps
Arsenic	75-2	907	923	917	916	0.92	cps
Barium	135-1	189053	190328	192916	190765	1.03	cps
Barium	137-1	325881	324171	327676	325909	0.54	cps
Beryllium	9-1	1270	1272	1300	1281	1.28	cps
Bismuth	209-1	5086055	5135933	5191342	5137776	1.03	cps
Bismuth	209-2	2453168	2491658	2480126	2474984	0.80	cps
Bromine	81-1	31435	30330	31779	31181	2.43	cps
Cadmium	108-1	80	90	77	82	8.44	cps
Cadmium	106-1	6608	5928	6512	6349	5.80	cps
Cadmium	111-1	5217	4740	5244	5067	5.60	cps
Calcium	43-1	3987850	4045595	4020284	4017910	0.72	cps
Calcium	44-1	66233677	65382019	66269459	65961718	0.76	cps
Carbon	12-1	5141234	4990590	4971891	5034571	1.84	cps
Carbon	12-2	35563	35767	36318	35883	1.09	cps
Chlorine	35-1	266362	267412	268902	267559	0.48	cps
Chlorine	35-2	1223	1277	1393	1298	6.70	cps
Chromium	52-2	21944	22194	21169	21769	2.45	cps
Cobalt	59-2	372900	372120	365114	370045	1.16	cps
Copper	63-2	241060	239824	238956	239947	0.44	cps
Dysprosium	156-1	174463	173426	174571	174153	0.36	cps
Dysprosium	156-2	66980	65831	65777	66196	1.03	cps
Erbium	164-1	190642	194036	196134	193604	1.43	cps
Erbium	164-2	74500	74514	72848	73954	1.30	cps
Gadolinium	160-1	164582	164785	171453	166940	2.34	cps
Gadolinium	160-2	77909	79921	77540	78457	1.63	cps
Holmium	165-1	9189232	9176908	9042946	9136362	0.89	cps
Holmium	165-2	3712165	3736160	3670253	3706193	0.90	cps
Indium	115-1	8041771	8171293	8088337	8100467	0.81	cps
Indium	115-2	923484	932704	942744	932977	1.03	cps
Iron	54-2	22582461	22497661	22038319	22372813	1.31	cps
Iron	56-2	415538714	412109274	407590634	411746207	0.97	cps
Iron	57-2	10476293	10358689	10336835	10390606	0.72	cps
Krypton	83-1	757	773	790	773	2.15	cps
Lead	206-1	8356	8293	8263	8304	0.57	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6455	6932	6779	6722	3.62	cps
Lead	208-1	31766	31468	31679	31638	0.48	cps
Lithium	6-1	2363918	2364607	2527849	2418791	3.90	cps
Magnesium	24-2	8494516	8470378	8230171	8398355	1.74	cps
Manganese	55-2	3762522	3692423	3726880	3727275	0.94	cps
Molybdenum	94-1	2257	2177	2134	2189	2.86	cps
Molybdenum	95-1	1057	1150	1153	1120	4.90	cps
Molybdenum	96-1	6195	6128	6118	6147	0.68	cps
Molybdenum	97-1	747	693	687	709	4.64	cps
Molybdenum	98-1	1523	1460	1483	1489	2.15	cps
Neodymium	150-1	181531	181102	181809	181480	0.20	cps
Neodymium	150-2	51776	50809	49939	50841	1.81	cps
Nickel	60-2	93746	93685	91814	93082	1.18	cps
Phosphorus	31-2	493	570	510	524	7.69	cps
Potassium	39-2	198323	199651	196749	198241	0.73	cps
Rhodium	103-1	7726295	7711609	7562636	7666847	1.18	cps
Rhodium	103-2	3346379	3276595	3312668	3311881	1.05	cps
Scandium	45-1	5822946	5834468	5966282	5874565	1.36	cps
Scandium	45-2	129404	131552	131364	130773	0.91	cps
Selenium	82-1	440	270	300	337	26.95	cps
Selenium	77-2	340	280	300	307	9.96	cps
Selenium	78-2	303	237	240	260	14.45	cps
Silicon	28-1	223896970	220210977	219713890	221273946	1.03	cps
Silver	107-1	250	180	210	213	16.46	cps
Silver	109-1	133	153	163	150	10.19	cps
Sodium	23-2	7655449	7667278	7430592	7584440	1.76	cps
Strontium	86-1	1022518	1012133	1019976	1018209	0.53	cps
Strontium	88-1	9173912	9103073	9192685	9156557	0.52	cps
Sulfur	34-1	11269546	11586856	11292103	11382835	1.56	cps
Terbium	159-1	9018400	9297023	9402119	9239181	2.15	cps
Terbium	159-2	3545860	3543396	3620460	3569906	1.23	cps
Thallium	203-1	480	547	550	526	7.51	cps
Thallium	205-1	1203	1210	1347	1253	6.45	cps
Tin	118-1	4991	4721	4951	4888	2.98	cps
Titanium	47-1	5064	5148	4868	5026	2.86	cps
Uranium	238-1	90986	95690	94518	93731	2.61	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 15:59:02	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	423737	425640	419510	422962	0.74	cps
Ytterbium	172-1	67421	68415	66861	67566	1.17	cps
Ytterbium	172-2	31401	31801	30485	31229	2.16	cps
Ytterbium	176-1	41732	40960	41762	41485	1.10	cps
Ytterbium	176-2	19528	19782	18773	19361	2.71	cps
Yttrium	89-1	18903657	18546543	18968886	18806362	1.21	cps
Yttrium	89-2	1636483	1597730	1642855	1625690	1.50	cps
Zinc	66-2	184241	184683	183566	184163	0.31	cps
Zirconium	90-1	3247	3607	3394	3416	5.30	cps
Zirconium	91-1	707	740	710	719	2.55	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1097830	1078274	1064072	1080059	1.57	cps
Antimony	121-1	317	340	317	324	4.15	cps
Arsenic	75-2	767	787	817	790	3.19	cps
Barium	135-1	176733	180523	178995	178750	1.07	cps
Barium	137-1	302299	307796	310473	306856	1.36	cps
Beryllium	9-1	1232	1209	1139	1193	4.06	cps
Bismuth	209-1	5306772	5159210	5298642	5254875	1.58	cps
Bismuth	209-2	2529878	2525344	2518031	2524418	0.24	cps
Bromine	81-1	30831	31021	31766	31206	1.58	cps
Cadmium	108-1	67	77	63	69	10.08	cps
Cadmium	106-1	6392	6352	6498	6414	1.18	cps
Cadmium	111-1	5214	5199	5214	5209	0.17	cps
Calcium	43-1	3962735	3936041	3942802	3947193	0.35	cps
Calcium	44-1	63552334	64369967	64080172	64000825	0.65	cps
Carbon	12-1	4944222	4840905	4977656	4920927	1.45	cps
Carbon	12-2	34076	34450	34778	34435	1.02	cps
Chlorine	35-1	265420	264948	261837	264069	0.74	cps
Chlorine	35-2	1190	1367	1270	1276	6.94	cps
Chromium	52-2	15882	16136	15242	15753	2.93	cps
Cobalt	59-2	363964	365697	361485	363715	0.58	cps
Copper	63-2	271684	269100	267008	269264	0.87	cps
Dysprosium	156-1	169661	168807	167107	168525	0.77	cps
Dysprosium	156-2	65553	66280	63828	65220	1.93	cps
Erbium	164-1	191113	194502	193612	193075	0.91	cps
Erbium	164-2	73606	73652	72586	73281	0.82	cps
Gadolinium	160-1	164944	167372	164349	165555	0.97	cps
Gadolinium	160-2	76977	76752	76846	76858	0.15	cps
Holmium	165-1	9139717	9348686	9189195	9225866	1.18	cps
Holmium	165-2	3702505	3779975	3752175	3744885	1.05	cps
Indium	115-1	8177377	8289100	8105772	8190750	1.13	cps
Indium	115-2	933785	930553	934459	932933	0.22	cps
Iron	54-2	21881856	21935231	21755552	21857546	0.42	cps
Iron	56-2	401886061	397736314	397124941	398915772	0.65	cps
Iron	57-2	10202785	10028053	10018526	10083121	1.03	cps
Krypton	83-1	763	773	787	774	1.51	cps
Lead	206-1	6095	6612	6262	6323	4.17	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5138	5351	5144	5211	2.33	cps
Lead	208-1	24222	24382	24556	24387	0.68	cps
Lithium	6-1	2536300	2467554	2517749	2507201	1.42	cps
Magnesium	24-2	7535702	7501955	7379736	7472464	1.10	cps
Manganese	55-2	3368880	3305764	3325560	3333401	0.97	cps
Molybdenum	94-1	1787	2034	2080	1967	8.01	cps
Molybdenum	95-1	1070	1057	943	1023	6.80	cps
Molybdenum	96-1	5504	5775	5558	5612	2.55	cps
Molybdenum	97-1	693	617	577	629	9.43	cps
Molybdenum	98-1	1240	1323	1430	1331	7.16	cps
Neodymium	150-1	176519	172167	178119	175601	1.75	cps
Neodymium	150-2	48969	50320	48992	49427	1.57	cps
Nickel	60-2	78438	77988	77124	77850	0.86	cps
Phosphorus	31-2	340	250	377	322	20.23	cps
Potassium	39-2	211899	208758	205107	208588	1.63	cps
Rhodium	103-1	7707091	7717431	7609507	7678010	0.78	cps
Rhodium	103-2	3370918	3389751	3351280	3370649	0.57	cps
Scandium	45-1	5890270	6045845	6013312	5983142	1.37	cps
Scandium	45-2	132558	130591	131855	131668	0.76	cps
Selenium	82-1	307	263	317	296	9.59	cps
Selenium	77-2	347	307	340	331	6.47	cps
Selenium	78-2	243	283	233	253	10.44	cps
Silicon	28-1	221730163	219270997	223290610	221430590	0.92	cps
Silver	107-1	207	203	220	210	4.20	cps
Silver	109-1	123	163	153	147	14.19	cps
Sodium	23-2	8422491	8264998	8256380	8314623	1.12	cps
Strontium	86-1	1042505	1034232	1055628	1044122	1.03	cps
Strontium	88-1	9571511	9241730	9368907	9394049	1.77	cps
Sulfur	34-1	10809756	11119164	10750359	10893093	1.82	cps
Terbium	159-1	9405673	9643208	9315917	9454933	1.79	cps
Terbium	159-2	3615314	3595405	3642395	3617705	0.65	cps
Thallium	203-1	453	527	443	474	9.59	cps
Thallium	205-1	1030	1143	1130	1101	5.63	cps
Tin	118-1	4911	6620	5221	5584	16.31	cps
Titanium	47-1	5004	5001	4974	4993	0.33	cps
Uranium	238-1	93642	94458	93047	93716	0.76	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:02:19	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	298116	291461	292590	294056	1.21	cps
Ytterbium	172-1	66479	67876	67230	67195	1.04	cps
Ytterbium	172-2	31491	31020	31641	31384	1.03	cps
Ytterbium	176-1	42167	41508	42221	41965	0.95	cps
Ytterbium	176-2	19782	19661	19535	19659	0.63	cps
Yttrium	89-1	19202451	19029313	19255327	19162364	0.62	cps
Yttrium	89-2	1628362	1665275	1603002	1632213	1.92	cps
Zinc	66-2	223000	222063	222568	222544	0.21	cps
Zirconium	90-1	2930	3234	3157	3107	5.08	cps
Zirconium	91-1	677	747	710	711	4.92	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	427262	429456	422467	426395	0.84	cps
Antimony	121-1	453	410	377	413	9.30	cps
Arsenic	75-2	413	517	450	460	11.39	cps
Barium	135-1	188087	192741	190662	190497	1.22	cps
Barium	137-1	328562	333532	333024	331706	0.82	cps
Beryllium	9-1	1082	1131	1028	1080	4.76	cps
Bismuth	209-1	5219506	5309528	5266139	5265057	0.86	cps
Bismuth	209-2	2451600	2482117	2509161	2480959	1.16	cps
Bromine	81-1	31482	30654	30617	30917	1.58	cps
Cadmium	108-1	90	110	110	103	11.17	cps
Cadmium	106-1	5741	5728	5611	5693	1.26	cps
Cadmium	111-1	4823	4716	4688	4742	1.50	cps
Calcium	43-1	7296461	7120418	7281041	7232640	1.35	cps
Calcium	44-1	120395542	117774062	119885245	119351616	1.16	cps
Carbon	12-1	5040939	4960476	5044689	5015368	0.95	cps
Carbon	12-2	35643	35663	35296	35534	0.58	cps
Chlorine	35-1	257418	254857	249489	253921	1.59	cps
Chlorine	35-2	1150	1050	1163	1121	5.53	cps
Chromium	52-2	4417	4297	4601	4439	3.44	cps
Cobalt	59-2	343020	341558	337138	340572	0.90	cps
Copper	63-2	187673	186816	185749	186746	0.52	cps
Dysprosium	156-1	96982	99151	99383	98505	1.34	cps
Dysprosium	156-2	38097	37422	37636	37719	0.91	cps
Erbium	164-1	122272	121859	122316	122149	0.21	cps
Erbium	164-2	45792	46300	45190	45760	1.21	cps
Gadolinium	160-1	97057	96839	97262	97052	0.22	cps
Gadolinium	160-2	45531	44701	44598	44943	1.14	cps
Holmium	165-1	9320311	9465990	9256342	9347548	1.15	cps
Holmium	165-2	3708249	3730951	3687524	3708908	0.59	cps
Indium	115-1	8216238	8281750	8134059	8210682	0.90	cps
Indium	115-2	921618	917616	917668	918968	0.25	cps
Iron	54-2	18092043	17965533	17638963	17898846	1.31	cps
Iron	56-2	333395195	330544908	331061462	331667188	0.46	cps
Iron	57-2	8269706	8388357	8167889	8275317	1.33	cps
Krypton	83-1	650	607	530	596	10.20	cps
Lead	206-1	3997	4164	4144	4102	2.22	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3387	3481	3574	3481	2.68	cps
Lead	208-1	15577	16197	16227	16001	2.29	cps
Lithium	6-1	2593934	2611024	2496256	2567072	2.41	cps
Magnesium	24-2	5660424	5668950	5449695	5593023	2.22	cps
Manganese	55-2	4961395	4941504	4901439	4934779	0.62	cps
Molybdenum	94-1	1350	1477	1510	1446	5.84	cps
Molybdenum	95-1	1147	1103	1110	1120	2.08	cps
Molybdenum	96-1	4928	4891	4884	4901	0.48	cps
Molybdenum	97-1	673	617	627	639	4.73	cps
Molybdenum	98-1	1280	1133	1157	1190	6.62	cps
Neodymium	150-1	94231	93238	94516	93995	0.71	cps
Neodymium	150-2	25584	25875	26055	25838	0.92	cps
Nickel	60-2	45593	45422	44633	45216	1.13	cps
Phosphorus	31-2	87	107	143	112	25.61	cps
Potassium	39-2	220763	220601	219035	220133	0.43	cps
Rhodium	103-1	7703928	7800851	7602608	7702462	1.29	cps
Rhodium	103-2	3277103	3312651	3328001	3305918	0.79	cps
Scandium	45-1	5955264	5912080	5919827	5929057	0.39	cps
Scandium	45-2	128149	126752	128074	127658	0.62	cps
Selenium	82-1	223	173	320	239	31.21	cps
Selenium	77-2	180	170	147	166	10.33	cps
Selenium	78-2	193	170	137	167	17.09	cps
Silicon	28-1	198238684	197437557	196382197	197352813	0.47	cps
Silver	107-1	237	237	207	227	7.64	cps
Silver	109-1	133	140	170	148	13.21	cps
Sodium	23-2	12684951	12762949	12480637	12642846	1.15	cps
Strontium	86-1	1269263	1281397	1297796	1282819	1.12	cps
Strontium	88-1	11322695	11595989	11514336	11477673	1.22	cps
Sulfur	34-1	11581943	11675647	11640482	11632691	0.41	cps
Terbium	159-1	9412962	9505601	9538203	9485589	0.68	cps
Terbium	159-2	3594584	3601500	3539875	3578653	0.94	cps
Thallium	203-1	620	547	597	588	6.37	cps
Thallium	205-1	1077	1283	1377	1246	12.33	cps
Tin	118-1	4664	5505	4841	5003	8.86	cps
Titanium	47-1	4111	3864	3997	3991	3.10	cps
Uranium	238-1	72234	73269	72552	72685	0.73	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-08DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:05:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63845	63105	62770	63240	0.87	cps
Ytterbium	172-1	45271	46746	46414	46144	1.68	cps
Ytterbium	172-2	21167	21050	20269	20829	2.34	cps
Ytterbium	176-1	29620	28808	28878	29102	1.55	cps
Ytterbium	176-2	13110	13283	13026	13140	1.00	cps
Yttrium	89-1	17684095	17832250	17673010	17729785	0.50	cps
Yttrium	89-2	1495353	1509045	1479288	1494562	1.00	cps
Zinc	66-2	204013	202529	201871	202804	0.54	cps
Zirconium	90-1	2157	2314	2317	2262	4.04	cps
Zirconium	91-1	460	470	493	474	3.61	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6182007	6127855	6156491	6155451	0.44	cps
Antimony	121-1	14851283	15184209	14897504	14977665	1.20	cps
Arsenic	75-2	375301	375320	374999	375206	0.05	cps
Barium	135-1	17942231	18402234	18302991	18215819	1.33	cps
Barium	137-1	30698944	31105670	31281968	31028860	0.96	cps
Beryllium	9-1	3754305	3697805	3803473	3751861	1.41	cps
Bismuth	209-1	4702844	4573478	4709450	4661924	1.64	cps
Bismuth	209-2	2227072	2281613	2235219	2247968	1.31	cps
Bromine	81-1	29545	30329	32428	30767	4.84	cps
Cadmium	108-1	286819	292244	291482	290182	1.01	cps
Cadmium	106-1	412630	418860	423242	418244	1.28	cps
Cadmium	111-1	3683037	3616156	3668468	3655887	0.96	cps
Calcium	43-1	25225023	25680434	25258030	25387829	1.00	cps
Calcium	44-1	416349087	417022407	414865060	416078852	0.27	cps
Carbon	12-1	5384639	5401356	5477557	5421184	0.91	cps
Carbon	12-2	45403	45784	43962	45050	2.13	cps
Chlorine	35-1	304529	306853	307941	306441	0.57	cps
Chlorine	35-2	1617	1480	1570	1556	4.47	cps
Chromium	52-2	3897919	3933662	3932885	3921489	0.52	cps
Cobalt	59-2	6855980	6747768	6765905	6789884	0.85	cps
Copper	63-2	51406706	51337779	51690978	51478488	0.36	cps
Dysprosium	156-1	753	767	717	746	3.47	cps
Dysprosium	156-2	197	210	193	200	4.41	cps
Erbium	164-1	617	657	667	647	4.09	cps
Erbium	164-2	240	310	270	273	12.85	cps
Gadolinium	160-1	453	523	580	519	12.23	cps
Gadolinium	160-2	207	273	220	233	15.12	cps
Holmium	165-1	8519053	8499494	8623391	8547313	0.78	cps
Holmium	165-2	3551315	3536999	3541081	3543132	0.21	cps
Indium	115-1	7128965	7198058	7079593	7135539	0.83	cps
Indium	115-2	818027	821001	818961	819329	0.19	cps
Iron	54-2	38381524	38592487	38235789	38403267	0.47	cps
Iron	56-2	719283109	709939003	714166763	714462958	0.65	cps
Iron	57-2	18079191	17957065	17899196	17978484	0.51	cps
Krypton	83-1	410	353	400	388	7.80	cps
Lead	206-1	48510104	48708233	50237026	49151788	1.92	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	41331315	41607139	42632086	41856847	1.64	cps
Lead	208-1	190966831	190945167	196662170	192858056	1.71	cps
Lithium	6-1	2268431	2256235	2315142	2279936	1.36	cps
Magnesium	24-2	107888218	108730722	107072542	107897161	0.77	cps
Manganese	55-2	16615397	16564825	16709194	16629805	0.44	cps
Molybdenum	94-1	54508429	55223059	55821666	55184385	1.19	cps
Molybdenum	95-1	78485929	80083327	80646707	79738654	1.41	cps
Molybdenum	96-1	85103829	87460339	87901022	86821730	1.73	cps
Molybdenum	97-1	48460876	49595019	49803481	49286459	1.47	cps
Molybdenum	98-1	125377275	128168548	128637108	127394310	1.38	cps
Neodymium	150-1	1370	1457	1287	1371	6.20	cps
Neodymium	150-2	150	77	127	118	31.81	cps
Nickel	60-2	1910238	1890253	1881829	1894107	0.77	cps
Phosphorus	31-2	64429	64804	64372	64535	0.36	cps
Potassium	39-2	39631704	39482440	40287119	39800421	1.08	cps
Rhodium	103-1	6582127	6678476	6700200	6653601	0.94	cps
Rhodium	103-2	2950220	3005477	2899637	2951778	1.79	cps
Scandium	45-1	5287718	5248392	5341176	5292429	0.88	cps
Scandium	45-2	127307	127667	128158	127711	0.33	cps
Selenium	82-1	222933	226940	225237	225037	0.89	cps
Selenium	77-2	4861	4884	4801	4849	0.89	cps
Selenium	78-2	16370	17020	16400	16597	2.21	cps
Silicon	28-1	9111569	9148437	9380878	9213628	1.58	cps
Silver	107-1	18101067	18453063	18431386	18328505	1.08	cps
Silver	109-1	17066848	17301396	17366347	17244864	0.91	cps
Sodium	23-2	223464763	226286223	222005963	223918983	0.97	cps
Strontium	86-1	5186953	5194825	5278461	5220080	0.97	cps
Strontium	88-1	44937754	45771149	45879624	45529509	1.13	cps
Sulfur	34-1	1924403	1899126	1948739	1924089	1.29	cps
Terbium	159-1	8857093	8940231	8934447	8910590	0.52	cps
Terbium	159-2	3469399	3455657	3405656	3443571	0.97	cps
Thallium	203-1	11887482	11942876	12137846	11989401	1.10	cps
Thallium	205-1	28328664	28092067	28570963	28330565	0.85	cps
Tin	118-1	12214899	12300689	12382290	12299293	0.68	cps
Titanium	47-1	22846168	23118945	23226480	23063864	0.85	cps
Uranium	238-1	37528249	36997933	37724194	37416792	1.00	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:11:25	DataFile Name :	039CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2991801	3001001	3014340	3002381	0.38	cps
Ytterbium	172-1	943	983	987	971	2.48	cps
Ytterbium	172-2	340	473	450	421	16.91	cps
Ytterbium	176-1	60545	61033	61264	60947	0.60	cps
Ytterbium	176-2	24363	24563	24252	24393	0.65	cps
Yttrium	89-1	14250616	14093070	14321502	14221729	0.82	cps
Yttrium	89-2	1191661	1195627	1174874	1187388	0.93	cps
Zinc	66-2	5928995	5943864	6017636	5963498	0.80	cps
Zirconium	90-1	27308870	27768790	28084029	27720563	1.41	cps
Zirconium	91-1	6103243	6239094	6167161	6169833	1.10	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	610	600	550	587	5.48	cps
Antimony	121-1	3570	2854	2460	2961	19.01	cps
Arsenic	75-2	10	10	37	19	81.51	cps
Barium	135-1	557	480	410	482	15.21	cps
Barium	137-1	1070	803	677	850	23.62	cps
Beryllium	9-1	395	374	328	366	9.38	cps
Bismuth	209-1	5515548	5623063	5641923	5593511	1.22	cps
Bismuth	209-2	2648560	2671405	2728707	2682891	1.54	cps
Bromine	81-1	30791	32013	31809	31538	2.08	cps
Cadmium	108-1	33	43	23	33	30.00	cps
Cadmium	106-1	5324	5404	5438	5389	1.08	cps
Cadmium	111-1	3910	3963	3927	3933	0.68	cps
Calcium	43-1	3074	2794	2884	2917	4.90	cps
Calcium	44-1	69819	67370	66148	67779	2.76	cps
Carbon	12-1	4797551	4619998	4648526	4688692	2.03	cps
Carbon	12-2	31674	30742	30432	30949	2.09	cps
Chlorine	35-1	265083	264113	265975	265057	0.35	cps
Chlorine	35-2	1170	1270	1213	1218	4.12	cps
Chromium	52-2	1997	1837	1800	1878	5.57	cps
Cobalt	59-2	210	173	190	191	9.60	cps
Copper	63-2	3504	3157	3394	3352	5.29	cps
Dysprosium	156-1	7	7	10	8	24.71	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	73	63	90	76	17.83	cps
Erbium	164-2	33	30	23	29	17.63	cps
Gadolinium	160-1	90	83	87	87	3.85	cps
Gadolinium	160-2	30	27	27	28	6.92	cps
Holmium	165-1	9514863	9609374	9440517	9521585	0.89	cps
Holmium	165-2	3841060	3821240	3807128	3823143	0.45	cps
Indium	115-1	8486483	8696606	8487196	8556762	1.42	cps
Indium	115-2	980759	987213	979156	982376	0.43	cps
Iron	54-2	1510	1550	1487	1516	2.11	cps
Iron	56-2	22171	21416	21263	21617	2.25	cps
Iron	57-2	670	550	437	552	21.13	cps
Krypton	83-1	407	393	393	398	1.94	cps
Lead	206-1	3460	3094	2850	3135	9.80	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3157	2687	2440	2761	13.19	cps
Lead	208-1	14190	12292	11245	12576	11.87	cps
Lithium	6-1	2761746	2707680	2699396	2722940	1.24	cps
Magnesium	24-2	1900	1947	1693	1847	7.30	cps
Manganese	55-2	1263	1250	1230	1248	1.34	cps
Molybdenum	94-1	3130	2654	2577	2787	10.76	cps
Molybdenum	95-1	3027	2214	1943	2395	23.55	cps
Molybdenum	96-1	3344	2634	2154	2710	22.09	cps
Molybdenum	97-1	1763	1553	1083	1467	23.74	cps
Molybdenum	98-1	4771	3651	3040	3821	22.97	cps
Neodymium	150-1	7	3	20	10	88.20	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1080	1017	1027	1041	3.27	cps
Phosphorus	31-2	140	103	117	120	15.47	cps
Potassium	39-2	28876	28378	27920	28391	1.68	cps
Rhodium	103-1	8056566	8050501	7985764	8030944	0.49	cps
Rhodium	103-2	3576576	3606785	3552649	3578670	0.76	cps
Scandium	45-1	5927841	5912220	5920725	5920262	0.13	cps
Scandium	45-2	133715	135155	132720	133863	0.91	cps
Selenium	82-1	3	-43	57	6	900.49	cps
Selenium	77-2	7	3	0	3	100.05	cps
Selenium	78-2	27	27	23	26	7.55	cps
Silicon	28-1	597477	579303	564824	580535	2.82	cps
Silver	107-1	2167	1813	1580	1853	15.94	cps
Silver	109-1	2034	1587	1437	1686	18.42	cps
Sodium	23-2	84057	82042	81647	82582	1.57	cps
Strontium	86-1	877	750	783	803	8.17	cps
Strontium	88-1	2187	1753	1513	1818	18.77	cps
Sulfur	34-1	723024	728425	734642	728697	0.80	cps
Terbium	159-1	9975341	9850589	9647705	9824545	1.68	cps
Terbium	159-2	3761394	3793548	3757580	3770840	0.52	cps
Thallium	203-1	927	790	803	840	8.97	cps
Thallium	205-1	2567	2114	1924	2201	15.02	cps
Tin	118-1	4851	4718	4561	4710	3.08	cps
Titanium	47-1	1043	997	733	924	18.08	cps
Uranium	238-1	1107	863	647	872	26.38	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:14:12	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	47	67	57	17.65	cps
Ytterbium	172-1	73	27	30	43	60.07	cps
Ytterbium	172-2	30	27	27	28	6.92	cps
Ytterbium	176-1	1150	1187	1047	1128	6.44	cps
Ytterbium	176-2	263	287	247	266	7.57	cps
Yttrium	89-1	15803938	15517283	15610718	15643979	0.93	cps
Yttrium	89-2	1277617	1287610	1273911	1279712	0.55	cps
Zinc	66-2	3554	3314	3420	3429	3.51	cps
Zirconium	90-1	3764	3601	3444	3603	4.44	cps
Zirconium	91-1	777	733	690	733	5.91	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	574405	570566	558809	567927	1.43	cps
Antimony	121-1	813	733	720	756	6.68	cps
Arsenic	75-2	540	450	523	504	9.49	cps
Barium	135-1	181215	184941	182729	182962	1.02	cps
Barium	137-1	316910	317704	315530	316714	0.35	cps
Beryllium	9-1	1478	1380	1416	1425	3.46	cps
Bismuth	209-1	5153777	5193980	5186123	5177960	0.41	cps
Bismuth	209-2	2442497	2486922	2516986	2482135	1.51	cps
Bromine	81-1	31619	31178	31155	31317	0.84	cps
Cadmium	108-1	77	120	103	100	21.86	cps
Cadmium	106-1	6051	5761	5691	5835	3.27	cps
Cadmium	111-1	4906	4732	4632	4756	2.91	cps
Calcium	43-1	6697848	6769045	6780094	6748995	0.66	cps
Calcium	44-1	110332395	112336078	111609158	111425877	0.91	cps
Carbon	12-1	5225224	5120230	5136129	5160528	1.10	cps
Carbon	12-2	35753	35720	35596	35690	0.23	cps
Chlorine	35-1	239558	236400	237969	237976	0.66	cps
Chlorine	35-2	1043	1067	1010	1040	2.74	cps
Chromium	52-2	5591	5244	5221	5352	3.87	cps
Cobalt	59-2	336341	338160	333317	335939	0.73	cps
Copper	63-2	207135	207944	206410	207163	0.37	cps
Dysprosium	156-1	105418	105777	106668	105954	0.61	cps
Dysprosium	156-2	40809	42002	40755	41189	1.71	cps
Erbium	164-1	128110	129357	129617	129028	0.62	cps
Erbium	164-2	48893	48404	48856	48718	0.56	cps
Gadolinium	160-1	106531	106135	105530	106065	0.48	cps
Gadolinium	160-2	49003	49883	48785	49224	1.18	cps
Holmium	165-1	9058484	9240951	9091451	9130295	1.07	cps
Holmium	165-2	3705017	3687635	3670253	3687635	0.47	cps
Indium	115-1	7975085	8279965	8093627	8116225	1.89	cps
Indium	115-2	917088	917513	917538	917380	0.03	cps
Iron	54-2	18933659	18921409	18433622	18762897	1.52	cps
Iron	56-2	348686501	347029435	339233582	344983173	1.46	cps
Iron	57-2	8892003	8675897	8584621	8717507	1.81	cps
Krypton	83-1	580	603	613	599	2.86	cps
Lead	206-1	5268	5708	5485	5487	4.01	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4531	4307	4608	4482	3.48	cps
Lead	208-1	21080	21277	21174	21177	0.46	cps
Lithium	6-1	2622032	2673844	2584262	2626713	1.71	cps
Magnesium	24-2	5887758	5844173	5763080	5831670	1.08	cps
Manganese	55-2	4667822	4733324	4637931	4679692	1.04	cps
Molybdenum	94-1	1827	1947	2050	1941	5.76	cps
Molybdenum	95-1	1157	1180	1260	1199	4.52	cps
Molybdenum	96-1	5414	4971	5234	5207	4.28	cps
Molybdenum	97-1	640	650	663	651	1.80	cps
Molybdenum	98-1	1580	1417	1280	1426	10.54	cps
Neodymium	150-1	102874	102743	102706	102774	0.09	cps
Neodymium	150-2	29015	28717	28303	28678	1.25	cps
Nickel	60-2	46760	47278	47007	47015	0.55	cps
Phosphorus	31-2	157	157	137	150	7.70	cps
Potassium	39-2	200182	199093	198340	199205	0.46	cps
Rhodium	103-1	7619118	7602782	7522334	7581411	0.68	cps
Rhodium	103-2	3325165	3341355	3302919	3323147	0.58	cps
Scandium	45-1	5691160	5798483	5835956	5775199	1.30	cps
Scandium	45-2	127204	127577	126457	127079	0.45	cps
Selenium	82-1	293	323	247	288	13.42	cps
Selenium	77-2	237	180	173	197	17.69	cps
Selenium	78-2	170	190	237	199	17.20	cps
Silicon	28-1	208342077	205338344	204641717	206107379	0.95	cps
Silver	107-1	440	437	420	432	2.48	cps
Silver	109-1	407	290	360	352	16.67	cps
Sodium	23-2	10378708	10525869	10293384	10399320	1.13	cps
Strontium	86-1	1248487	1217252	1231996	1232578	1.27	cps
Strontium	88-1	11277656	11119891	11189762	11195769	0.71	cps
Sulfur	34-1	11744746	11566916	11643936	11651866	0.77	cps
Terbium	159-1	9523552	9476136	9555484	9518391	0.42	cps
Terbium	159-2	3573525	3567485	3592412	3577807	0.36	cps
Thallium	203-1	567	563	527	552	4.02	cps
Thallium	205-1	1380	1190	1393	1321	8.61	cps
Tin	118-1	5328	5531	5208	5356	3.05	cps
Titanium	47-1	4104	4121	4107	4111	0.21	cps
Uranium	238-1	69941	72180	73065	71729	2.24	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-10DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:19:58	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	98968	98382	98023	98458	0.48	cps
Ytterbium	172-1	47448	47297	46595	47113	0.97	cps
Ytterbium	172-2	21711	22038	21464	21738	1.33	cps
Ytterbium	176-1	29312	29139	29059	29170	0.44	cps
Ytterbium	176-2	13867	13680	13944	13831	0.98	cps
Yttrium	89-1	17791576	17883005	17827973	17834185	0.26	cps
Yttrium	89-2	1488291	1428742	1487066	1468033	2.32	cps
Zinc	66-2	186307	185491	180467	184088	1.72	cps
Zirconium	90-1	3084	3267	3137	3163	2.98	cps
Zirconium	91-1	723	733	623	693	8.77	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	585302	581499	574301	580367	0.96	cps
Antimony	121-1	583	547	613	581	5.75	cps
Arsenic	75-2	590	550	547	562	4.29	cps
Barium	135-1	167546	167161	168814	167840	0.52	cps
Barium	137-1	287129	296027	290677	291278	1.54	cps
Beryllium	9-1	1249	1237	1264	1250	1.05	cps
Bismuth	209-1	5449956	5279937	5321509	5350467	1.66	cps
Bismuth	209-2	2503238	2489134	2510738	2501037	0.44	cps
Bromine	81-1	30633	30256	30386	30425	0.63	cps
Cadmium	108-1	103	90	83	92	11.04	cps
Cadmium	106-1	6081	6068	5971	6040	0.99	cps
Cadmium	111-1	5055	5015	5002	5024	0.55	cps
Calcium	43-1	8549156	8673056	8449841	8557351	1.31	cps
Calcium	44-1	139684018	142383298	138979065	140348793	1.28	cps
Carbon	12-1	5185909	5278332	5321091	5261777	1.31	cps
Carbon	12-2	37518	37441	36448	37136	1.61	cps
Chlorine	35-1	236102	235194	231784	234360	0.97	cps
Chlorine	35-2	1087	1137	1057	1093	3.70	cps
Chromium	52-2	57385	56726	56288	56800	0.97	cps
Cobalt	59-2	377084	381569	369682	376112	1.60	cps
Copper	63-2	218463	220595	215007	218021	1.29	cps
Dysprosium	156-1	122653	122828	122959	122813	0.13	cps
Dysprosium	156-2	47046	46658	46306	46670	0.79	cps
Erbium	164-1	146048	145960	147355	146455	0.53	cps
Erbium	164-2	54832	54796	54143	54590	0.71	cps
Gadolinium	160-1	118733	120431	121665	120277	1.22	cps
Gadolinium	160-2	55629	56288	54497	55471	1.63	cps
Holmium	165-1	9341505	9489848	9413702	9415018	0.79	cps
Holmium	165-2	3760746	3732373	3695929	3729683	0.87	cps
Indium	115-1	8358090	8407569	8333065	8366241	0.45	cps
Indium	115-2	927709	922704	927329	925914	0.30	cps
Iron	54-2	20524942	20311270	20292665	20376292	0.63	cps
Iron	56-2	381969528	375366154	370893128	376076270	1.48	cps
Iron	57-2	9447275	9534110	9340903	9440762	1.02	cps
Krypton	83-1	700	637	730	689	6.92	cps
Lead	206-1	6742	6568	6495	6602	1.92	cps

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5338	5431	5495	5421	1.45	cps
Lead	208-1	25246	25136	24889	25091	0.73	cps
Lithium	6-1	2715943	2645006	2710705	2690551	1.47	cps
Magnesium	24-2	7024306	7151305	6935197	7036936	1.54	cps
Manganese	55-2	5084025	5111357	5043485	5079622	0.67	cps
Molybdenum	94-1	2434	2450	2464	2449	0.61	cps
Molybdenum	95-1	2100	1994	2177	2090	4.41	cps
Molybdenum	96-1	6475	6518	6318	6437	1.64	cps
Molybdenum	97-1	1250	1180	1247	1226	3.22	cps
Molybdenum	98-1	2727	2744	2780	2750	0.99	cps
Neodymium	150-1	120071	122035	120781	120963	0.82	cps
Neodymium	150-2	33254	33097	33024	33125	0.36	cps
Nickel	60-2	84496	83882	83362	83913	0.68	cps
Phosphorus	31-2	140	160	107	136	19.87	cps
Potassium	39-2	230014	226846	226493	227784	0.85	cps
Rhodium	103-1	7761904	7684498	7844507	7763636	1.03	cps
Rhodium	103-2	3363199	3339745	3355743	3352896	0.36	cps
Scandium	45-1	5954254	5887617	5836517	5892796	1.00	cps
Scandium	45-2	128844	129086	126215	128049	1.24	cps
Selenium	82-1	187	317	220	241	28.01	cps
Selenium	77-2	227	217	263	236	10.43	cps
Selenium	78-2	160	227	140	176	25.85	cps
Silicon	28-1	211832584	211237597	208317324	210462501	0.89	cps
Silver	107-1	340	367	370	359	4.58	cps
Silver	109-1	190	240	203	211	12.27	cps
Sodium	23-2	13754329	13498994	13475011	13576111	1.14	cps
Strontium	86-1	1556392	1562103	1568004	1562166	0.37	cps
Strontium	88-1	13267056	13422017	13264069	13317714	0.68	cps
Sulfur	34-1	13778243	13588104	13650087	13672145	0.71	cps
Terbium	159-1	9751441	9741142	9786165	9759582	0.24	cps
Terbium	159-2	3603215	3565696	3662286	3610399	1.35	cps
Thallium	203-1	570	593	577	580	2.07	cps
Thallium	205-1	1340	1477	1343	1387	5.62	cps
Tin	118-1	5328	5461	5708	5499	3.51	cps
Titanium	47-1	3921	4084	4031	4012	2.08	cps
Uranium	238-1	75395	75831	75309	75512	0.37	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:23:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	110693	110371	107315	109460	1.70	cps
Ytterbium	172-1	53892	54866	54214	54324	0.91	cps
Ytterbium	172-2	24616	24540	24282	24479	0.71	cps
Ytterbium	176-1	33927	33663	33462	33684	0.69	cps
Ytterbium	176-2	15509	15155	15596	15420	1.51	cps
Yttrium	89-1	18557990	18316335	18369097	18414474	0.69	cps
Yttrium	89-2	1574130	1527307	1542563	1548000	1.54	cps
Zinc	66-2	213223	212228	207964	211138	1.32	cps
Zirconium	90-1	3214	3280	3064	3186	3.48	cps
Zirconium	91-1	600	700	693	664	8.41	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2280	2360	2554	2398	5.86	cps
Antimony	121-1	353	383	367	368	4.09	cps
Arsenic	75-2	53	57	50	53	6.25	cps
Barium	135-1	189013	189347	191639	189999	0.75	cps
Barium	137-1	324155	329710	328545	327470	0.89	cps
Beryllium	9-1	163	159	167	163	2.56	cps
Bismuth	209-1	5373107	5409616	5394332	5392351	0.34	cps
Bismuth	209-2	2543301	2594984	2573814	2570700	1.01	cps
Bromine	81-1	30440	30593	29819	30284	1.35	cps
Cadmium	108-1	60	117	97	91	31.54	cps
Cadmium	106-1	5334	5361	5034	5243	3.46	cps
Cadmium	111-1	4402	4458	4200	4353	3.12	cps
Calcium	43-1	10610590	10743220	10775585	10709798	0.82	cps
Calcium	44-1	174988784	176461844	176131137	175860588	0.44	cps
Carbon	12-1	5141415	5120089	5166119	5142541	0.45	cps
Carbon	12-2	35603	35185	36041	35610	1.20	cps
Chlorine	35-1	227457	227118	227642	227405	0.12	cps
Chlorine	35-2	997	1073	993	1021	4.43	cps
Chromium	52-2	2007	2307	2040	2118	7.76	cps
Cobalt	59-2	250946	254293	247475	250904	1.36	cps
Copper	63-2	7936	7689	7769	7798	1.61	cps
Dysprosium	156-1	15426	16160	16267	15951	2.87	cps
Dysprosium	156-2	5695	5628	5848	5724	1.97	cps
Erbium	164-1	21391	21521	21043	21318	1.16	cps
Erbium	164-2	7802	7922	8133	7952	2.10	cps
Gadolinium	160-1	14428	15235	14361	14675	3.32	cps
Gadolinium	160-2	6932	6848	6545	6775	3.01	cps
Holmium	165-1	9467956	9496037	9132113	9365369	2.16	cps
Holmium	165-2	3766158	3749570	3763775	3759834	0.24	cps
Indium	115-1	8466654	8437534	8476527	8460238	0.24	cps
Indium	115-2	936198	943869	944735	941601	0.50	cps
Iron	54-2	8404204	8394633	8144923	8314587	1.77	cps
Iron	56-2	155101138	154396934	150082711	153193594	1.77	cps
Iron	57-2	3836563	3931476	3870438	3879492	1.24	cps
Krypton	83-1	420	427	440	429	2.37	cps
Lead	206-1	2254	2270	2317	2280	1.44	cps

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LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1977	1937	2040	1985	2.63	cps
Lead	208-1	8715	8765	9055	8845	2.08	cps
Lithium	6-1	2642408	2617420	2629919	2629916	0.48	cps
Magnesium	24-2	4755391	4749962	4625117	4710157	1.56	cps
Manganese	55-2	4393161	4358909	4239976	4330682	1.86	cps
Molybdenum	94-1	1223	1313	1217	1251	4.32	cps
Molybdenum	95-1	723	737	780	747	3.97	cps
Molybdenum	96-1	2490	2660	2414	2521	5.01	cps
Molybdenum	97-1	433	310	380	374	16.52	cps
Molybdenum	98-1	750	800	773	774	3.23	cps
Neodymium	150-1	12683	13033	12446	12721	2.32	cps
Neodymium	150-2	3454	3434	3380	3423	1.11	cps
Nickel	60-2	41360	41641	40411	41137	1.57	cps
Phosphorus	31-2	127	117	83	109	20.84	cps
Potassium	39-2	210291	211804	207564	209886	1.02	cps
Rhodium	103-1	7685610	7615694	7569292	7623532	0.77	cps
Rhodium	103-2	3334337	3388070	3351787	3358065	0.82	cps
Scandium	45-1	5874972	5885372	5828124	5862823	0.52	cps
Scandium	45-2	129763	130099	129238	129700	0.33	cps
Selenium	82-1	67	77	77	73	7.87	cps
Selenium	77-2	33	13	20	22	45.83	cps
Selenium	78-2	53	63	80	66	20.55	cps
Silicon	28-1	118547895	120149282	118572815	119089997	0.77	cps
Silver	107-1	307	383	310	333	13.00	cps
Silver	109-1	257	277	320	284	11.38	cps
Sodium	23-2	17901264	17889882	17481883	17757676	1.35	cps
Strontium	86-1	1447053	1454543	1373831	1425142	3.13	cps
Strontium	88-1	12568227	12811316	12535119	12638221	1.19	cps
Sulfur	34-1	11700139	11763683	11734362	11732728	0.27	cps
Terbium	159-1	9706944	9851115	9794560	9784206	0.74	cps
Terbium	159-2	3635807	3690443	3660315	3662188	0.75	cps
Thallium	203-1	443	427	353	408	11.74	cps
Thallium	205-1	957	927	910	931	2.54	cps
Tin	118-1	5061	5034	5121	5072	0.88	cps
Titanium	47-1	2400	2247	2287	2311	3.44	cps
Uranium	238-1	6382	6325	5878	6195	4.45	cps

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Inst Id :P8
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LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-14DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-24-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:26:26	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	40	30	32	21.53	cps
Ytterbium	172-1	5921	5655	5691	5756	2.51	cps
Ytterbium	172-2	2727	2687	2700	2705	0.75	cps
Ytterbium	176-1	4467	4604	4628	4566	1.89	cps
Ytterbium	176-2	1797	1707	1730	1745	2.68	cps
Yttrium	89-1	16222614	16692521	16002404	16305846	2.16	cps
Yttrium	89-2	1297441	1305325	1305147	1302638	0.35	cps
Zinc	66-2	238657	237734	230521	235638	1.89	cps
Zirconium	90-1	2400	2520	2434	2451	2.53	cps
Zirconium	91-1	447	493	517	486	7.34	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	521741	521700	518147	520529	0.40	cps
Antimony	121-1	497	440	453	463	6.39	cps
Arsenic	75-2	497	440	410	449	9.80	cps
Barium	135-1	186858	189864	187938	188220	0.81	cps
Barium	137-1	320189	327287	326423	324633	1.19	cps
Beryllium	9-1	1120	995	1031	1048	6.16	cps
Bismuth	209-1	5627832	5513124	5436568	5525841	1.74	cps
Bismuth	209-2	2636142	2646963	2639532	2640879	0.21	cps
Bromine	81-1	31709	31819	32267	31932	0.93	cps
Cadmium	108-1	87	90	107	94	11.35	cps
Cadmium	106-1	6125	6115	6165	6135	0.43	cps
Cadmium	111-1	4960	5104	5171	5078	2.12	cps
Calcium	43-1	6794174	6781169	6822585	6799309	0.31	cps
Calcium	44-1	111743675	110716538	109994965	110818393	0.79	cps
Carbon	12-1	5189378	5137599	5087985	5138321	0.99	cps
Carbon	12-2	35459	35767	35119	35448	0.91	cps
Chlorine	35-1	226301	226822	226311	226478	0.13	cps
Chlorine	35-2	1110	1013	1053	1059	4.59	cps
Chromium	52-2	5938	6178	5898	6005	2.52	cps
Cobalt	59-2	322002	320117	317543	319888	0.70	cps
Copper	63-2	194889	197047	193473	195136	0.92	cps
Dysprosium	156-1	99883	100289	101697	100623	0.95	cps
Dysprosium	156-2	38225	39658	37566	38483	2.78	cps
Erbium	164-1	119881	117758	119592	119077	0.97	cps
Erbium	164-2	45899	44741	44434	45025	1.72	cps
Gadolinium	160-1	99991	99461	101422	100291	1.01	cps
Gadolinium	160-2	46133	46367	45046	45849	1.54	cps
Holmium	165-1	9734374	9753071	9753934	9747126	0.11	cps
Holmium	165-2	3919454	3885595	3855043	3886697	0.83	cps
Indium	115-1	8821217	8679579	8544668	8681821	1.59	cps
Indium	115-2	965392	963951	955349	961564	0.56	cps
Iron	54-2	18567137	18358362	18236970	18387490	0.91	cps
Iron	56-2	348043701	345052062	337469675	343521813	1.59	cps
Iron	57-2	8538274	8626831	8481999	8549035	0.85	cps
Krypton	83-1	607	600	630	612	2.57	cps
Lead	206-1	4934	4691	4808	4811	2.53	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4344	4107	4014	4155	4.09	cps
Lead	208-1	19286	18742	18729	18919	1.68	cps
Lithium	6-1	2687001	2660301	2652570	2666624	0.68	cps
Magnesium	24-2	6228060	6151568	6181963	6187197	0.62	cps
Manganese	55-2	4270294	4248760	4158028	4225694	1.41	cps
Molybdenum	94-1	1680	1860	1910	1817	6.66	cps
Molybdenum	95-1	1107	1023	1123	1084	4.94	cps
Molybdenum	96-1	5551	5314	5241	5369	3.02	cps
Molybdenum	97-1	603	637	620	620	2.69	cps
Molybdenum	98-1	1383	1400	1373	1386	0.97	cps
Neodymium	150-1	99354	99035	99757	99382	0.36	cps
Neodymium	150-2	27465	26656	27194	27105	1.52	cps
Nickel	60-2	59537	58540	58553	58877	0.97	cps
Phosphorus	31-2	153	133	160	149	9.32	cps
Potassium	39-2	203832	205015	204238	204361	0.29	cps
Rhodium	103-1	8071095	8076743	8095582	8081140	0.16	cps
Rhodium	103-2	3462335	3461180	3408006	3443840	0.90	cps
Scandium	45-1	6255397	6087065	5988513	6110325	2.21	cps
Scandium	45-2	132606	133355	131899	132620	0.55	cps
Selenium	82-1	173	223	227	208	14.38	cps
Selenium	77-2	193	160	197	183	11.06	cps
Selenium	78-2	163	197	160	173	11.70	cps
Silicon	28-1	199215204	198109624	194553997	197292942	1.23	cps
Silver	107-1	320	290	290	300	5.77	cps
Silver	109-1	177	257	220	218	18.39	cps
Sodium	23-2	13190212	13194304	13034397	13139638	0.69	cps
Strontium	86-1	1194687	1209365	1222677	1208910	1.16	cps
Strontium	88-1	11136946	10891537	10888267	10972250	1.30	cps
Sulfur	34-1	11618256	11876190	11824394	11772947	1.16	cps
Terbium	159-1	10201997	10110101	10073981	10128693	0.65	cps
Terbium	159-2	3748346	3784953	3751248	3761515	0.54	cps
Thallium	203-1	487	470	457	471	3.19	cps
Thallium	205-1	1103	1237	1250	1197	6.78	cps
Tin	118-1	5242	5161	4958	5120	2.86	cps
Titanium	47-1	4167	4064	4077	4103	1.37	cps
Uranium	238-1	67361	67428	67461	67416	0.08	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:29:41	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	133199	132755	128846	131600	1.82	cps
Ytterbium	172-1	41585	41612	42488	41895	1.23	cps
Ytterbium	172-2	18910	18914	18870	18898	0.13	cps
Ytterbium	176-1	26573	25959	26219	26251	1.18	cps
Ytterbium	176-2	12533	12182	11795	12170	3.03	cps
Yttrium	89-1	18859826	18334591	18269049	18487822	1.75	cps
Yttrium	89-2	1553697	1528622	1563936	1548752	1.17	cps
Zinc	66-2	205105	207300	206346	206251	0.53	cps
Zirconium	90-1	2670	2594	2784	2683	3.56	cps
Zirconium	91-1	613	543	687	614	11.67	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	450057	448449	441652	446719	1.00	cps
Antimony	121-1	537	550	423	503	13.83	cps
Arsenic	75-2	430	423	470	441	5.72	cps
Barium	135-1	180027	181272	179307	180202	0.55	cps
Barium	137-1	306058	310224	303631	306638	1.09	cps
Beryllium	9-1	877	894	966	912	5.15	cps
Bismuth	209-1	5528936	5599550	5449682	5526056	1.36	cps
Bismuth	209-2	2552585	2572973	2538345	2554634	0.68	cps
Bromine	81-1	31729	31392	31525	31549	0.54	cps
Cadmium	108-1	73	73	57	68	14.19	cps
Cadmium	106-1	6041	5865	5845	5917	1.83	cps
Cadmium	111-1	4818	4591	4615	4674	2.67	cps
Calcium	43-1	7392787	7520388	7515820	7476332	0.97	cps
Calcium	44-1	124803888	123330078	122047048	123393671	1.12	cps
Carbon	12-1	4979126	4869565	4855937	4901542	1.38	cps
Carbon	12-2	33745	33836	33565	33715	0.41	cps
Chlorine	35-1	223117	222463	224999	223527	0.59	cps
Chlorine	35-2	970	1003	1027	1000	2.85	cps
Chromium	52-2	6278	6341	5951	6190	3.38	cps
Cobalt	59-2	283234	279491	275357	279361	1.41	cps
Copper	63-2	126239	126053	123888	125393	1.04	cps
Dysprosium	156-1	99819	99131	99547	99499	0.35	cps
Dysprosium	156-2	38064	37519	38104	37896	0.86	cps
Erbium	164-1	115533	116374	116882	116263	0.59	cps
Erbium	164-2	43360	43183	42097	42880	1.60	cps
Gadolinium	160-1	97573	98712	98839	98375	0.71	cps
Gadolinium	160-2	44965	45206	44012	44728	1.41	cps
Holmium	165-1	9624141	9671342	9610495	9635326	0.33	cps
Holmium	165-2	3843609	3792295	3786680	3807528	0.82	cps
Indium	115-1	8606307	8533807	8592213	8577442	0.45	cps
Indium	115-2	942057	938858	933629	938181	0.45	cps
Iron	54-2	17936658	17676759	17510931	17708116	1.21	cps
Iron	56-2	330010528	328991242	322373555	327125108	1.27	cps
Iron	57-2	8291978	8201088	8161774	8218280	0.81	cps
Krypton	83-1	603	557	657	606	8.26	cps
Lead	206-1	5378	5271	5448	5366	1.66	cps

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4471	4401	4454	4442	0.82	cps
Lead	208-1	20880	20800	20680	20787	0.48	cps
Lithium	6-1	2579463	2618056	2604608	2600709	0.75	cps
Magnesium	24-2	6683176	6623112	6551603	6619297	1.00	cps
Manganese	55-2	4892212	4862195	4805524	4853310	0.91	cps
Molybdenum	94-1	2457	2240	2344	2347	4.62	cps
Molybdenum	95-1	1253	1397	1330	1327	5.41	cps
Molybdenum	96-1	5404	5211	4791	5135	6.11	cps
Molybdenum	97-1	743	797	690	743	7.18	cps
Molybdenum	98-1	1630	1593	1623	1616	1.21	cps
Neodymium	150-1	100151	100180	100100	100144	0.04	cps
Neodymium	150-2	27208	27127	26566	26967	1.30	cps
Nickel	60-2	71217	70574	69441	70411	1.28	cps
Phosphorus	31-2	150	200	190	180	14.70	cps
Potassium	39-2	203919	203196	200144	202420	0.99	cps
Rhodium	103-1	7828848	7870228	7964179	7887752	0.88	cps
Rhodium	103-2	3388771	3358718	3389121	3378870	0.52	cps
Scandium	45-1	6019993	5981102	5985187	5995427	0.36	cps
Scandium	45-2	129218	127691	126820	127910	0.95	cps
Selenium	82-1	233	203	163	200	17.56	cps
Selenium	77-2	183	187	210	193	7.51	cps
Selenium	78-2	177	143	170	163	10.80	cps
Silicon	28-1	188640291	186987324	184221151	186616255	1.20	cps
Silver	107-1	357	403	400	387	6.73	cps
Silver	109-1	263	227	310	267	15.66	cps
Sodium	23-2	13603475	13640965	13303529	13515989	1.37	cps
Strontium	86-1	1214463	1221405	1204101	1213323	0.72	cps
Strontium	88-1	11009552	11113950	11050787	11058096	0.48	cps
Sulfur	34-1	12216440	12213906	12209407	12213251	0.03	cps
Terbium	159-1	9672275	9685783	10030391	9796150	2.07	cps
Terbium	159-2	3681994	3664348	3684549	3676964	0.30	cps
Thallium	203-1	400	487	413	433	10.77	cps
Thallium	205-1	1090	1020	1080	1063	3.56	cps
Tin	118-1	5727	5311	5258	5432	4.73	cps
Titanium	47-1	12055	12165	11888	12036	1.16	cps
Uranium	238-1	61937	62107	63056	62366	0.97	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-18DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:32:57	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	195229	194939	190338	193502	1.42	cps
Ytterbium	172-1	39964	40465	39699	40043	0.97	cps
Ytterbium	172-2	18179	18236	18132	18183	0.29	cps
Ytterbium	176-1	25251	25144	25094	25163	0.32	cps
Ytterbium	176-2	11475	11312	11282	11356	0.92	cps
Yttrium	89-1	18434062	18102671	18092309	18209681	1.07	cps
Yttrium	89-2	1510517	1468218	1472085	1483607	1.58	cps
Zinc	66-2	175817	175370	172016	174401	1.19	cps
Zirconium	90-1	3781	4051	4187	4006	5.17	cps
Zirconium	91-1	940	833	873	882	6.11	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	162058	161829	156030	159973	2.14	cps
Antimony	121-1	460	483	447	463	4.01	cps
Arsenic	75-2	353	317	313	328	6.77	cps
Barium	135-1	182602	181481	182518	182201	0.34	cps
Barium	137-1	310009	306504	322711	313075	2.72	cps
Beryllium	9-1	890	890	864	881	1.73	cps
Bismuth	209-1	5504075	5493384	5479429	5492296	0.23	cps
Bismuth	209-2	2607166	2561968	2571469	2580201	0.92	cps
Bromine	81-1	32511	31556	31008	31691	2.40	cps
Cadmium	108-1	93	90	83	89	5.73	cps
Cadmium	106-1	5711	5818	5751	5760	0.94	cps
Cadmium	111-1	4896	5093	5011	5000	1.98	cps
Calcium	43-1	8360234	8334295	8224323	8306284	0.87	cps
Calcium	44-1	136894048	136817301	134562935	136091428	0.97	cps
Carbon	12-1	4986601	5020299	5142159	5049686	1.62	cps
Carbon	12-2	34841	34277	34975	34698	1.07	cps
Chlorine	35-1	218157	216039	214366	216187	0.88	cps
Chlorine	35-2	917	987	990	964	4.29	cps
Chromium	52-2	3027	3094	2804	2975	5.11	cps
Cobalt	59-2	552971	550412	540757	548047	1.18	cps
Copper	63-2	106260	104910	102916	104696	1.61	cps
Dysprosium	156-1	72699	71781	71061	71847	1.14	cps
Dysprosium	156-2	27214	27001	26720	26978	0.92	cps
Erbium	164-1	93240	92267	91297	92268	1.05	cps
Erbium	164-2	33930	34394	33699	34008	1.04	cps
Gadolinium	160-1	71098	72087	71614	71600	0.69	cps
Gadolinium	160-2	32209	32824	32062	32365	1.25	cps
Holmium	165-1	9581513	9478994	9620100	9560202	0.76	cps
Holmium	165-2	3763646	3799795	3795638	3786360	0.52	cps
Indium	115-1	8565027	8699223	8384027	8549426	1.85	cps
Indium	115-2	934076	928928	923017	928674	0.60	cps
Iron	54-2	13270699	13363154	13133475	13255776	0.87	cps
Iron	56-2	247176530	245962010	242573783	245237441	0.97	cps
Iron	57-2	6263375	6237466	6049119	6183320	1.89	cps
Krypton	83-1	587	453	580	540	13.91	cps
Lead	206-1	3007	2977	2980	2988	0.55	cps

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Inst Id :P8
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LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2404	2687	2417	2502	6.39	cps
Lead	208-1	11499	11992	11475	11656	2.50	cps
Lithium	6-1	2558221	2624129	2592943	2591764	1.27	cps
Magnesium	24-2	5341188	5258898	5198769	5266285	1.36	cps
Manganese	55-2	7876866	7770398	7730554	7792606	0.97	cps
Molybdenum	94-1	1350	1567	1520	1479	7.71	cps
Molybdenum	95-1	1030	1017	963	1003	3.52	cps
Molybdenum	96-1	3621	3701	3837	3719	2.95	cps
Molybdenum	97-1	347	460	407	404	14.02	cps
Molybdenum	98-1	913	897	860	890	3.07	cps
Neodymium	150-1	62863	64782	64641	64095	1.67	cps
Neodymium	150-2	17929	17555	17208	17564	2.05	cps
Nickel	60-2	57067	58058	56967	57364	1.05	cps
Phosphorus	31-2	170	123	163	152	16.58	cps
Potassium	39-2	211050	212399	208625	210691	0.91	cps
Rhodium	103-1	7848243	8067289	7857976	7924503	1.56	cps
Rhodium	103-2	3354413	3387528	3395737	3379226	0.65	cps
Scandium	45-1	5987797	5871702	6030364	5963288	1.38	cps
Scandium	45-2	126486	126615	126547	126550	0.05	cps
Selenium	82-1	127	300	133	187	52.61	cps
Selenium	77-2	90	110	133	111	19.52	cps
Selenium	78-2	113	113	103	110	5.24	cps
Silicon	28-1	169158577	172324814	172897584	171460325	1.17	cps
Silver	107-1	320	267	327	304	10.80	cps
Silver	109-1	213	157	237	202	20.34	cps
Sodium	23-2	9959532	9934595	9877695	9923941	0.42	cps
Strontium	86-1	1663115	1647068	1674671	1661618	0.83	cps
Strontium	88-1	14180536	14223090	14360930	14254852	0.66	cps
Sulfur	34-1	10974348	11181324	11041874	11065849	0.95	cps
Terbium	159-1	9840689	9790879	9749864	9793811	0.46	cps
Terbium	159-2	3701082	3655205	3637833	3664707	0.89	cps
Thallium	203-1	437	463	417	439	5.33	cps
Thallium	205-1	1177	1233	1153	1188	3.46	cps
Tin	118-1	5084	9880	5144	6703	41.05	cps
Titanium	47-1	3207	3377	3204	3263	3.04	cps
Uranium	238-1	43668	44441	43789	43966	0.95	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:36:11	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17264	17157	17114	17178	0.45	cps
Ytterbium	172-1	34779	34094	34903	34592	1.26	cps
Ytterbium	172-2	15472	15679	15649	15600	0.72	cps
Ytterbium	176-1	21791	21902	22359	22017	1.37	cps
Ytterbium	176-2	9967	9877	9904	9916	0.47	cps
Yttrium	89-1	18033462	17643504	18100270	17925745	1.38	cps
Yttrium	89-2	1381748	1382381	1363903	1376011	0.76	cps
Zinc	66-2	196935	197408	191860	195401	1.57	cps
Zirconium	90-1	2390	2707	2644	2580	6.50	cps
Zirconium	91-1	467	590	560	539	11.94	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	162550	159579	160606	160912	0.94	cps
Antimony	121-1	440	357	587	461	25.25	cps
Arsenic	75-2	343	290	323	319	8.45	cps
Barium	135-1	180039	180248	182370	180886	0.71	cps
Barium	137-1	314444	314159	314309	314304	0.05	cps
Beryllium	9-1	873	891	893	885	1.20	cps
Bismuth	209-1	5456171	5535210	5372735	5454705	1.49	cps
Bismuth	209-2	2518642	2496379	2533248	2516090	0.74	cps
Bromine	81-1	31218	31689	30911	31273	1.25	cps
Cadmium	108-1	87	97	123	102	18.54	cps
Cadmium	106-1	5628	5965	5821	5805	2.91	cps
Cadmium	111-1	4899	5061	5039	4999	1.76	cps
Calcium	43-1	8203803	8360095	8242719	8268872	0.98	cps
Calcium	44-1	135473855	136058028	135906731	135812871	0.22	cps
Carbon	12-1	5131777	5157761	5193491	5161009	0.60	cps
Carbon	12-2	35112	35596	35085	35264	0.82	cps
Chlorine	35-1	213258	215158	215457	214624	0.56	cps
Chlorine	35-2	890	937	897	908	2.78	cps
Chromium	52-2	3247	3017	2930	3065	5.34	cps
Cobalt	59-2	557462	556074	545067	552868	1.23	cps
Copper	63-2	106452	105388	103866	105235	1.23	cps
Dysprosium	156-1	71728	73574	71382	72228	1.63	cps
Dysprosium	156-2	27285	27512	26974	27257	0.99	cps
Erbium	164-1	91462	91213	91760	91478	0.30	cps
Erbium	164-2	33943	34324	33793	34020	0.81	cps
Gadolinium	160-1	70589	71762	71842	71397	0.98	cps
Gadolinium	160-2	32339	32947	32807	32698	0.97	cps
Holmium	165-1	9452234	9426687	9660157	9513026	1.35	cps
Holmium	165-2	3695947	3754170	3753542	3734553	0.90	cps
Indium	115-1	8324346	8553864	8321150	8399787	1.59	cps
Indium	115-2	917103	915265	924443	918937	0.53	cps
Iron	54-2	13424816	13461693	13150004	13345505	1.28	cps
Iron	56-2	246251763	245276443	245684683	245737630	0.20	cps
Iron	57-2	6297459	6286918	6145176	6243184	1.36	cps
Krypton	83-1	567	563	500	543	6.91	cps
Lead	206-1	3320	3200	3320	3280	2.11	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2700	2774	2830	2768	2.36	cps
Lead	208-1	13039	12756	13046	12947	1.28	cps
Lithium	6-1	2555268	2591722	2533159	2560050	1.16	cps
Magnesium	24-2	5326660	5323958	5264250	5304956	0.67	cps
Manganese	55-2	7868082	7781489	7808442	7819338	0.57	cps
Molybdenum	94-1	1483	1590	1607	1560	4.29	cps
Molybdenum	95-1	970	970	927	956	2.62	cps
Molybdenum	96-1	3647	3644	3901	3731	3.95	cps
Molybdenum	97-1	487	463	373	441	13.57	cps
Molybdenum	98-1	927	830	890	882	5.53	cps
Neodymium	150-1	63503	65294	63784	64194	1.50	cps
Neodymium	150-2	17078	17455	17375	17302	1.15	cps
Nickel	60-2	58232	57880	56706	57606	1.39	cps
Phosphorus	31-2	107	120	103	110	8.02	cps
Potassium	39-2	213211	212613	210672	212166	0.63	cps
Rhodium	103-1	7787278	7881698	7701199	7790058	1.16	cps
Rhodium	103-2	3359348	3345013	3374051	3359471	0.43	cps
Scandium	45-1	5868291	5860362	5877709	5868787	0.15	cps
Scandium	45-2	126672	126067	125892	126210	0.32	cps
Selenium	82-1	207	253	263	241	12.54	cps
Selenium	77-2	123	103	93	107	14.33	cps
Selenium	78-2	103	127	120	117	10.30	cps
Silicon	28-1	172610621	170440831	168436071	170495841	1.22	cps
Silver	107-1	243	333	267	281	16.61	cps
Silver	109-1	170	220	217	202	13.82	cps
Sodium	23-2	10018809	9989804	9803934	9937516	1.17	cps
Strontium	86-1	1672258	1675106	1674590	1673985	0.09	cps
Strontium	88-1	14204467	14351952	14304176	14286865	0.53	cps
Sulfur	34-1	10795856	11191304	11221298	11069486	2.15	cps
Terbium	159-1	9759147	10004371	9789519	9851013	1.36	cps
Terbium	159-2	3639493	3590186	3587978	3605886	0.81	cps
Thallium	203-1	403	440	450	431	5.70	cps
Thallium	205-1	1277	1103	1087	1156	9.11	cps
Tin	118-1	5078	5318	5264	5220	2.42	cps
Titanium	47-1	3200	3197	3154	3184	0.82	cps
Uranium	238-1	43364	43949	44126	43813	0.91	cps

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On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:39:28	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17010	17244	17197	17150	0.72	cps
Ytterbium	172-1	34729	35150	34512	34797	0.93	cps
Ytterbium	172-2	16000	15646	15239	15628	2.44	cps
Ytterbium	176-1	22135	22259	22506	22300	0.85	cps
Ytterbium	176-2	9927	9887	9687	9834	1.31	cps
Yttrium	89-1	17595824	17665773	17534098	17598565	0.37	cps
Yttrium	89-2	1366603	1368764	1366507	1367292	0.09	cps
Zinc	66-2	197957	195144	194783	195961	0.89	cps
Zirconium	90-1	2820	2787	2724	2777	1.77	cps
Zirconium	91-1	500	713	573	596	18.20	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	34274	33469	33338	33693	1.50	cps
Antimony	121-1	213	200	200	204	3.77	cps
Arsenic	75-2	67	57	73	66	12.79	cps
Barium	135-1	37425	37301	36884	37203	0.76	cps
Barium	137-1	62992	64108	63059	63386	0.99	cps
Beryllium	9-1	288	273	218	260	14.12	cps
Bismuth	209-1	5492661	5557530	5668543	5572911	1.60	cps
Bismuth	209-2	2624906	2585286	2550121	2586771	1.45	cps
Bromine	81-1	32134	31977	31449	31853	1.13	cps
Cadmium	108-1	27	33	30	30	11.10	cps
Cadmium	106-1	5411	5474	5214	5367	2.53	cps
Cadmium	111-1	4029	4079	3889	3999	2.46	cps
Calcium	43-1	1767443	1701715	1760788	1743315	2.08	cps
Calcium	44-1	28445654	27856146	28159210	28153670	1.05	cps
Carbon	12-1	4978350	4833042	4750976	4854122	2.37	cps
Carbon	12-2	32085	32011	30996	31697	1.92	cps
Chlorine	35-1	210122	208595	209271	209329	0.37	cps
Chlorine	35-2	1013	890	883	929	7.88	cps
Chromium	52-2	2144	1953	1920	2006	6.01	cps
Cobalt	59-2	117110	115242	113038	115130	1.77	cps
Copper	63-2	24324	24351	23643	24106	1.66	cps
Dysprosium	156-1	14348	14485	14631	14488	0.98	cps
Dysprosium	156-2	5721	5821	5598	5713	1.96	cps
Erbium	164-1	18566	18510	18460	18512	0.29	cps
Erbium	164-2	6782	6782	6768	6777	0.11	cps
Gadolinium	160-1	14431	14408	14825	14555	1.61	cps
Gadolinium	160-2	6692	6578	6578	6616	0.99	cps
Holmium	165-1	9432638	9356896	9643352	9477628	1.57	cps
Holmium	165-2	3833228	3696187	3666965	3732127	2.38	cps
Indium	115-1	8551609	8548034	8595055	8564899	0.31	cps
Indium	115-2	947674	939085	925363	937374	1.20	cps
Iron	54-2	2845410	2818327	2736236	2799991	2.03	cps
Iron	56-2	51829544	51409963	49865453	51034986	2.03	cps
Iron	57-2	1272241	1247967	1218234	1246147	2.17	cps
Krypton	83-1	423	363	430	406	9.05	cps
Lead	206-1	1577	1600	1480	1552	4.10	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1207	1280	1260	1249	3.04	cps
Lead	208-1	5934	6091	5971	5998	1.37	cps
Lithium	6-1	2584116	2673270	2614707	2624031	1.73	cps
Magnesium	24-2	1118558	1105603	1086758	1103640	1.45	cps
Manganese	55-2	1663647	1645687	1593071	1634135	2.24	cps
Molybdenum	94-1	917	1000	850	922	8.15	cps
Molybdenum	95-1	393	413	427	411	4.08	cps
Molybdenum	96-1	1037	1200	1070	1102	7.83	cps
Molybdenum	97-1	240	287	263	263	8.86	cps
Molybdenum	98-1	547	470	467	494	9.15	cps
Neodymium	150-1	12916	13066	12693	12892	1.46	cps
Neodymium	150-2	3537	3614	3450	3534	2.31	cps
Nickel	60-2	12886	12859	12706	12817	0.76	cps
Phosphorus	31-2	117	110	123	117	5.72	cps
Potassium	39-2	61567	61497	61480	61515	0.08	cps
Rhodium	103-1	8104672	8096938	8041724	8081111	0.42	cps
Rhodium	103-2	3498461	3425106	3463700	3462422	1.06	cps
Scandium	45-1	5989411	5918423	5906256	5938030	0.76	cps
Scandium	45-2	131666	127328	125004	127999	2.64	cps
Selenium	82-1	77	130	-7	67	103.32	cps
Selenium	77-2	13	33	40	29	48.05	cps
Selenium	78-2	57	33	17	36	56.51	cps
Silicon	28-1	36001022	36137070	35612249	35916781	0.76	cps
Silver	107-1	273	250	330	284	14.47	cps
Silver	109-1	240	227	243	237	3.73	cps
Sodium	23-2	2174266	2124296	2105393	2134652	1.67	cps
Strontium	86-1	318339	320663	320976	319993	0.45	cps
Strontium	88-1	2963140	2925793	2925176	2938037	0.74	cps
Sulfur	34-1	2856394	2885404	2793790	2845196	1.65	cps
Terbium	159-1	9802901	9877661	9740833	9807132	0.70	cps
Terbium	159-2	3698382	3629931	3599091	3642468	1.40	cps
Thallium	203-1	323	297	350	323	8.25	cps
Thallium	205-1	653	620	720	664	7.66	cps
Tin	118-1	4321	4524	4347	4397	2.51	cps
Titanium	47-1	947	867	1110	974	12.73	cps
Uranium	238-1	8823	8640	8877	8780	1.41	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDLX25	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL	Dilution Factor :	25
Date & Time Acquired :	2025-04-10 16:42:43	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3514	3550	3334	3466	3.35	cps
Ytterbium	172-1	7305	7202	6955	7154	2.51	cps
Ytterbium	172-2	3327	3150	3004	3160	5.12	cps
Ytterbium	176-1	5124	5431	5198	5251	3.05	cps
Ytterbium	176-2	2377	2274	2144	2265	5.16	cps
Yttrium	89-1	16239619	16242251	16049919	16177263	0.68	cps
Yttrium	89-2	1280598	1259316	1243491	1261135	1.48	cps
Zinc	66-2	42968	41517	41206	41897	2.24	cps
Zirconium	90-1	1650	1917	1777	1781	7.49	cps
Zirconium	91-1	343	387	343	358	6.99	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5773056	5806480	5752933	5777490	0.47	cps
Antimony	121-1	15043059	15331009	15407421	15260497	1.26	cps
Arsenic	75-2	360065	361220	359711	360332	0.22	cps
Barium	135-1	18107821	18691646	18662748	18487405	1.78	cps
Barium	137-1	30978957	31567856	31599331	31382048	1.11	cps
Beryllium	9-1	3757115	3769816	3833029	3786653	1.07	cps
Bismuth	209-1	4632151	4707554	4695554	4678419	0.87	cps
Bismuth	209-2	2221074	2229956	2208583	2219871	0.48	cps
Bromine	81-1	28269	29414	28088	28590	2.52	cps
Cadmium	108-1	292128	295247	294350	293908	0.55	cps
Cadmium	106-1	420733	420666	425047	422149	0.59	cps
Cadmium	111-1	3710300	3805545	3761445	3759097	1.27	cps
Calcium	43-1	25694321	25071024	25058590	25274645	1.44	cps
Calcium	44-1	414165127	412861074	413031327	413352509	0.17	cps
Carbon	12-1	5472585	5551545	5514246	5512792	0.72	cps
Carbon	12-2	43551	42662	43604	43272	1.22	cps
Chlorine	35-1	268205	269166	269907	269093	0.32	cps
Chlorine	35-2	1327	1297	1260	1295	2.58	cps
Chromium	52-2	3817310	3762265	3769740	3783105	0.79	cps
Cobalt	59-2	6495846	6553016	6455063	6501308	0.76	cps
Copper	63-2	49916591	49841673	49676531	49811598	0.25	cps
Dysprosium	156-1	660	753	717	710	6.62	cps
Dysprosium	156-2	227	217	197	213	7.16	cps
Erbium	164-1	740	650	627	672	8.90	cps
Erbium	164-2	333	237	223	264	22.70	cps
Gadolinium	160-1	453	517	537	502	8.66	cps
Gadolinium	160-2	210	247	227	228	8.06	cps
Holmium	165-1	8545464	8828357	8864171	8745997	2.00	cps
Holmium	165-2	3541358	3491503	3452307	3495056	1.28	cps
Indium	115-1	7096450	7230239	7261531	7196073	1.22	cps
Indium	115-2	785000	785672	785329	785334	0.04	cps
Iron	54-2	37363463	36987099	36823600	37058054	0.75	cps
Iron	56-2	683470950	676987710	682001737	680820132	0.50	cps
Iron	57-2	17157284	17316198	17040871	17171451	0.80	cps
Krypton	83-1	457	363	413	411	11.36	cps
Lead	206-1	49097039	49753993	51160379	50003804	2.11	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	41616961	42740159	43522526	42626549	2.25	cps
Lead	208-1	192290432	197146570	199319457	196252153	1.83	cps
Lithium	6-1	2285208	2315444	2424568	2341740	3.13	cps
Magnesium	24-2	102289548	102984868	100586455	101953624	1.21	cps
Manganese	55-2	16000951	15960112	15845002	15935355	0.51	cps
Molybdenum	94-1	55877606	56160199	56250174	56095993	0.35	cps
Molybdenum	95-1	80032177	81301982	81936364	81090174	1.20	cps
Molybdenum	96-1	87592629	88559465	88652045	88268046	0.66	cps
Molybdenum	97-1	49429054	50179654	50214639	49941116	0.89	cps
Molybdenum	98-1	127048965	129924825	130558531	129177440	1.45	cps
Neodymium	150-1	1450	1383	1403	1412	2.42	cps
Neodymium	150-2	120	117	120	119	1.62	cps
Nickel	60-2	1810622	1810270	1788077	1802989	0.72	cps
Phosphorus	31-2	59608	59150	59160	59306	0.44	cps
Potassium	39-2	37176018	37106635	37106364	37129672	0.11	cps
Rhodium	103-1	6617285	6711479	6708403	6679056	0.80	cps
Rhodium	103-2	2902403	2901230	2840898	2881510	1.22	cps
Scandium	45-1	5244238	5259536	5309612	5271129	0.65	cps
Scandium	45-2	119807	118863	117549	118740	0.96	cps
Selenium	82-1	222645	225204	227114	224988	1.00	cps
Selenium	77-2	4984	4841	4574	4800	4.34	cps
Selenium	78-2	15746	15742	15716	15734	0.10	cps
Silicon	28-1	9090864	9298301	9214760	9201308	1.13	cps
Silver	107-1	18520272	18565967	18575727	18553988	0.16	cps
Silver	109-1	17342694	17685639	17633016	17553783	1.05	cps
Sodium	23-2	211288857	208789270	208950397	209676175	0.67	cps
Strontium	86-1	5167704	5364107	5246591	5259467	1.88	cps
Strontium	88-1	45397518	46279784	45695908	45791070	0.98	cps
Sulfur	34-1	1895723	1893809	1847930	1879154	1.44	cps
Terbium	159-1	9019234	9009025	8986922	9005060	0.18	cps
Terbium	159-2	3471515	3389251	3396459	3419075	1.33	cps
Thallium	203-1	12239446	12242378	12365654	12282493	0.59	cps
Thallium	205-1	28683600	29037992	29397013	29039535	1.23	cps
Tin	118-1	12423925	12556265	12646633	12542274	0.89	cps
Titanium	47-1	23172245	23267145	23247742	23229044	0.22	cps
Uranium	238-1	37391468	38502192	38369268	38087642	1.59	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:46:56	DataFile Name :	049CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2879302	2844300	2861823	2861808	0.61	cps
Ytterbium	172-1	883	977	1023	961	7.42	cps
Ytterbium	172-2	437	410	410	419	3.68	cps
Ytterbium	176-1	60766	62571	62373	61903	1.60	cps
Ytterbium	176-2	24456	23842	23975	24091	1.34	cps
Yttrium	89-1	14073662	14393080	14145898	14204213	1.18	cps
Yttrium	89-2	1142972	1151292	1134883	1143049	0.72	cps
Zinc	66-2	5722184	5718234	5782916	5741112	0.63	cps
Zirconium	90-1	28287051	28591741	28101590	28326794	0.87	cps
Zirconium	91-1	6238108	6271537	6285966	6265204	0.39	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	543	440	490	491	10.52	cps
Antimony	121-1	3637	2980	2504	3040	18.72	cps
Arsenic	75-2	3	10	7	7	50.03	cps
Barium	135-1	623	550	507	560	10.53	cps
Barium	137-1	1057	840	793	897	15.67	cps
Beryllium	9-1	408	334	346	363	10.95	cps
Bismuth	209-1	5813232	5791733	5653728	5752897	1.50	cps
Bismuth	209-2	2659936	2618441	2664664	2647680	0.96	cps
Bromine	81-1	29317	29374	29474	29389	0.27	cps
Cadmium	108-1	47	43	17	36	46.24	cps
Cadmium	106-1	5214	5384	5111	5237	2.64	cps
Cadmium	111-1	3814	3875	3666	3785	2.84	cps
Calcium	43-1	2617	2524	2397	2512	4.40	cps
Calcium	44-1	60560	59131	58489	59393	1.79	cps
Carbon	12-1	4523132	4475929	4388470	4462510	1.53	cps
Carbon	12-2	28648	28381	28538	28522	0.47	cps
Chlorine	35-1	205730	206962	206610	206434	0.31	cps
Chlorine	35-2	777	950	850	859	10.13	cps
Chromium	52-2	1690	1643	1807	1713	4.91	cps
Cobalt	59-2	170	207	170	182	11.62	cps
Copper	63-2	3137	3020	2987	3048	2.58	cps
Dysprosium	156-1	7	23	10	13	66.12	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	73	60	40	58	29.04	cps
Erbium	164-2	17	37	27	27	37.50	cps
Gadolinium	160-1	50	80	67	66	22.93	cps
Gadolinium	160-2	17	17	7	13	43.29	cps
Holmium	165-1	9515322	9652461	9577638	9581807	0.72	cps
Holmium	165-2	3783096	3754964	3769076	3769046	0.37	cps
Indium	115-1	8450930	8480133	8553637	8494900	0.62	cps
Indium	115-2	925887	939671	937649	934402	0.80	cps
Iron	54-2	1493	1420	1467	1460	2.54	cps
Iron	56-2	21109	20325	20712	20715	1.89	cps
Iron	57-2	570	420	477	489	15.49	cps
Krypton	83-1	393	307	290	330	16.81	cps
Lead	206-1	3517	3077	2790	3128	11.70	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3117	2814	2477	2803	11.43	cps
Lead	208-1	14030	12399	11099	12509	11.74	cps
Lithium	6-1	2755841	2798503	2759388	2771244	0.85	cps
Magnesium	24-2	1790	1687	1573	1683	6.44	cps
Manganese	55-2	1130	1217	1173	1173	3.69	cps
Molybdenum	94-1	3357	2740	2460	2853	16.09	cps
Molybdenum	95-1	3257	2737	2420	2805	15.06	cps
Molybdenum	96-1	3477	2720	2220	2806	22.55	cps
Molybdenum	97-1	2000	1403	1293	1566	24.29	cps
Molybdenum	98-1	4968	3657	2980	3868	26.12	cps
Neodymium	150-1	7	10	20	12	56.76	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	947	997	990	978	2.78	cps
Phosphorus	31-2	87	113	90	97	15.03	cps
Potassium	39-2	27319	26888	27162	27123	0.80	cps
Rhodium	103-1	8077994	8184667	7980932	8081198	1.26	cps
Rhodium	103-2	3479400	3499126	3490287	3489604	0.28	cps
Scandium	45-1	5608677	5570882	5642670	5607410	0.64	cps
Scandium	45-2	121118	121790	121841	121583	0.33	cps
Selenium	82-1	-67	7	153	31	360.05	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	30	17	33	27	33.06	cps
Silicon	28-1	528985	542176	524315	531825	1.74	cps
Silver	107-1	2454	1877	1747	2026	18.57	cps
Silver	109-1	2360	1837	1587	1928	20.47	cps
Sodium	23-2	75675	75866	74804	75448	0.75	cps
Strontium	86-1	860	673	840	791	12.96	cps
Strontium	88-1	1977	1713	1597	1762	11.05	cps
Sulfur	34-1	654829	664192	669797	662939	1.14	cps
Terbium	159-1	9953491	9806691	10072440	9944207	1.34	cps
Terbium	159-2	3706940	3649129	3661884	3672651	0.83	cps
Thallium	203-1	1033	967	873	958	8.39	cps
Thallium	205-1	2687	2214	2100	2334	13.34	cps
Tin	118-1	4824	4521	4567	4638	3.52	cps
Titanium	47-1	950	787	717	818	14.64	cps
Uranium	238-1	1163	917	733	938	23.01	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 16:49:44	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	63	40	53	22.53	cps
Ytterbium	172-1	37	63	40	47	31.13	cps
Ytterbium	172-2	13	33	17	21	50.75	cps
Ytterbium	176-1	1213	1093	1223	1177	6.15	cps
Ytterbium	176-2	217	227	223	222	2.29	cps
Yttrium	89-1	15714318	15497546	15594041	15601968	0.70	cps
Yttrium	89-2	1197376	1210259	1206624	1204753	0.55	cps
Zinc	66-2	3044	2837	2994	2958	3.65	cps
Zirconium	90-1	3957	3410	4349	3905	12.07	cps
Zirconium	91-1	880	777	777	811	7.36	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	371444	372903	379006	374451	1.07	cps
Antimony	121-1	3244320	3268044	3225608	3245991	0.66	cps
Arsenic	75-2	340	293	283	306	9.90	cps
Barium	135-1	3638369	3781461	3696040	3705290	1.94	cps
Barium	137-1	6166859	6367968	6249686	6261504	1.61	cps
Beryllium	9-1	811141	810870	809568	810526	0.10	cps
Bismuth	209-1	5301085	5474719	5393785	5389863	1.61	cps
Bismuth	209-2	2490002	2501862	2484601	2492155	0.35	cps
Bromine	81-1	31485	31930	31502	31639	0.80	cps
Cadmium	108-1	60402	60164	61105	60557	0.81	cps
Cadmium	106-1	94765	95501	94068	94778	0.76	cps
Cadmium	111-1	781464	786518	780668	782883	0.41	cps
Calcium	43-1	8777790	8818438	8650273	8748834	1.00	cps
Calcium	44-1	144348935	143689861	140729625	142922807	1.35	cps
Carbon	12-1	4940150	4955050	5035389	4976863	1.03	cps
Carbon	12-2	35530	33879	35673	35027	2.85	cps
Chlorine	35-1	19150175	20831210	21462225	20481203	5.84	cps
Chlorine	35-2	105014	107478	108540	107011	1.69	cps
Chromium	52-2	720733	720046	731733	724171	0.91	cps
Cobalt	59-2	1917163	1935158	1943005	1931776	0.69	cps
Copper	63-2	10940303	10633589	10675082	10749658	1.55	cps
Dysprosium	156-1	67660	68662	68561	68294	0.81	cps
Dysprosium	156-2	26159	26369	26092	26207	0.55	cps
Erbium	164-1	86747	87784	87932	87488	0.74	cps
Erbium	164-2	33128	32774	33395	33099	0.94	cps
Gadolinium	160-1	67379	69473	67905	68252	1.60	cps
Gadolinium	160-2	30993	31023	30882	30966	0.24	cps
Holmium	165-1	9573083	9413776	9544836	9510565	0.89	cps
Holmium	165-2	3800644	3773343	3769963	3781317	0.44	cps
Indium	115-1	8299718	8290624	8350919	8313754	0.39	cps
Indium	115-2	906624	905976	912264	908288	0.38	cps
Iron	54-2	13704779	13756806	14157464	13873017	1.79	cps
Iron	56-2	253276543	259460403	258527189	257088045	1.30	cps
Iron	57-2	6423029	6445735	6500707	6456490	0.62	cps
Krypton	83-1	607	587	623	606	3.03	cps
Lead	206-1	10763571	10705615	10786922	10752036	0.39	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9256866	9282503	9243619	9260996	0.21	cps
Lead	208-1	42329204	42584409	42421623	42445079	0.30	cps
Lithium	6-1	2629439	2711269	2670881	2670530	1.53	cps
Magnesium	24-2	9194172	9112136	9194618	9166976	0.52	cps
Manganese	55-2	10541864	10633560	10792432	10655952	1.19	cps
Molybdenum	94-1	5420514	5357980	5525380	5434625	1.56	cps
Molybdenum	95-1	6019831	5894558	6089191	6001193	1.64	cps
Molybdenum	96-1	6776101	6646841	6847541	6756828	1.51	cps
Molybdenum	97-1	3660858	3702820	3814520	3726066	2.13	cps
Molybdenum	98-1	9756239	9615974	9711573	9694595	0.74	cps
Neodymium	150-1	59652	62478	60639	60923	2.35	cps
Neodymium	150-2	16507	16827	16190	16508	1.93	cps
Nickel	60-2	407357	411850	413557	410921	0.78	cps
Phosphorus	31-2	137	167	110	138	20.58	cps
Potassium	39-2	1586499	1583610	1577832	1582647	0.28	cps
Rhodium	103-1	7585368	7543849	7754952	7628056	1.47	cps
Rhodium	103-2	3284471	3237161	3333007	3284880	1.46	cps
Scandium	45-1	5771620	5765445	5802806	5779957	0.35	cps
Scandium	45-2	123014	122849	122725	122863	0.12	cps
Selenium	82-1	48586	48994	50068	49216	1.56	cps
Selenium	77-2	1100	1173	1107	1127	3.60	cps
Selenium	78-2	3500	3687	3404	3530	4.08	cps
Silicon	28-1	158837698	159464024	160470091	159590604	0.52	cps
Silver	107-1	658505	656084	668145	660911	0.97	cps
Silver	109-1	609390	632932	613916	618746	2.02	cps
Sodium	23-2	17789059	17826284	17772040	17795794	0.16	cps
Strontium	86-1	2808961	2933137	2865560	2869220	2.17	cps
Strontium	88-1	24401798	24993608	24777436	24724281	1.21	cps
Sulfur	34-1	10198944	10339365	10122419	10220243	1.08	cps
Terbium	159-1	9707216	9935776	10044009	9895667	1.74	cps
Terbium	159-2	3588981	3618708	3622248	3609979	0.51	cps
Thallium	203-1	2660277	2667648	2695912	2674612	0.70	cps
Thallium	205-1	6177424	6176977	6181043	6178481	0.04	cps
Tin	118-1	2429713	2430592	2456059	2438788	0.61	cps
Titanium	47-1	4721	4731	4854	4769	1.56	cps
Uranium	238-1	7662669	7923867	7630909	7739149	2.08	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:53:12	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	591095	588278	600301	593224	1.06	cps
Ytterbium	172-1	32934	33459	33709	33368	1.19	cps
Ytterbium	172-2	14652	14715	15182	14850	1.95	cps
Ytterbium	176-1	32864	33616	33355	33279	1.15	cps
Ytterbium	176-2	13510	14248	14241	14000	3.03	cps
Yttrium	89-1	17509395	17208908	17170027	17296110	1.07	cps
Yttrium	89-2	1349937	1348390	1355550	1351292	0.28	cps
Zinc	66-2	1371987	1352599	1372912	1365833	0.84	cps
Zirconium	90-1	5784580	5730065	5665821	5726822	1.04	cps
Zirconium	91-1	1226034	1232379	1224974	1227796	0.33	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	377365	380808	376290	378154	0.62	cps
Antimony	121-1	3190139	3189179	3230477	3203265	0.74	cps
Arsenic	75-2	283	280	430	331	25.87	cps
Barium	135-1	3650667	3701274	3776549	3709497	1.71	cps
Barium	137-1	6254748	6282263	6261960	6266324	0.23	cps
Beryllium	9-1	808990	811041	813746	811259	0.29	cps
Bismuth	209-1	5248646	5248646	5319750	5272348	0.78	cps
Bismuth	209-2	2477978	2544642	2477678	2500099	1.54	cps
Bromine	81-1	32277	32077	32407	32254	0.52	cps
Cadmium	108-1	58915	60110	59896	59640	1.07	cps
Cadmium	106-1	95450	95038	96145	95545	0.59	cps
Cadmium	111-1	784627	783703	786463	784931	0.18	cps
Calcium	43-1	8917390	8946723	8932797	8932303	0.16	cps
Calcium	44-1	147435964	148762051	144061661	146753226	1.65	cps
Carbon	12-1	5336321	5347537	5281008	5321622	0.67	cps
Carbon	12-2	36509	37474	36729	36904	1.37	cps
Chlorine	35-1	20360577	22205836	23012156	21859523	6.22	cps
Chlorine	35-2	110840	112251	113605	112232	1.23	cps
Chromium	52-2	730773	743419	733323	735839	0.91	cps
Cobalt	59-2	1984013	1945030	2014218	1981087	1.75	cps
Copper	63-2	10954047	10979676	11017919	10983881	0.29	cps
Dysprosium	156-1	67757	67439	67647	67614	0.24	cps
Dysprosium	156-2	26673	25671	25805	26050	2.09	cps
Erbium	164-1	86556	86478	86724	86586	0.14	cps
Erbium	164-2	32957	32670	32079	32569	1.38	cps
Gadolinium	160-1	67362	66870	67858	67363	0.73	cps
Gadolinium	160-2	30341	31150	30822	30771	1.32	cps
Holmium	165-1	9234633	9275295	9427495	9312475	1.09	cps
Holmium	165-2	3721715	3754835	3673024	3716525	1.11	cps
Indium	115-1	8082156	8197613	8131816	8137195	0.71	cps
Indium	115-2	897891	908951	898094	901645	0.70	cps
Iron	54-2	14047355	14044788	13981826	14024656	0.26	cps
Iron	56-2	260835336	260043736	255941576	258940216	1.01	cps
Iron	57-2	6462359	6563693	6586963	6537672	1.01	cps
Krypton	83-1	477	550	577	534	9.69	cps
Lead	206-1	10402163	10462617	10752200	10538993	1.78	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSD	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8868222	9032802	9246128	9049051	2.09	cps
Lead	208-1	40987716	41522249	42194807	41568258	1.46	cps
Lithium	6-1	2633915	2591670	2648825	2624803	1.13	cps
Magnesium	24-2	9269657	9442077	9180599	9297444	1.43	cps
Manganese	55-2	10766207	10758829	10693785	10739607	0.37	cps
Molybdenum	94-1	5490764	5616997	5598315	5568692	1.22	cps
Molybdenum	95-1	6114874	6132704	6072080	6106553	0.51	cps
Molybdenum	96-1	6745768	6853200	6877825	6825598	1.03	cps
Molybdenum	97-1	3719820	3832527	3746798	3766382	1.56	cps
Molybdenum	98-1	9560373	9729173	9646900	9645482	0.88	cps
Neodymium	150-1	59702	60700	61396	60599	1.41	cps
Neodymium	150-2	17161	16791	16811	16921	1.23	cps
Nickel	60-2	420651	420010	426381	422347	0.83	cps
Phosphorus	31-2	137	107	127	123	12.39	cps
Potassium	39-2	1639095	1615588	1623105	1625929	0.74	cps
Rhodium	103-1	7509769	7571656	7672767	7584731	1.08	cps
Rhodium	103-2	3265253	3262120	3272850	3266741	0.17	cps
Scandium	45-1	5844517	5784967	5737123	5788869	0.93	cps
Scandium	45-2	125667	125875	126154	125899	0.19	cps
Selenium	82-1	49913	50305	49971	50063	0.42	cps
Selenium	77-2	1130	1063	1070	1088	3.38	cps
Selenium	78-2	3821	3597	3647	3688	3.18	cps
Silicon	28-1	163553608	162709294	161380701	162547868	0.67	cps
Silver	107-1	654451	670372	664319	663047	1.21	cps
Silver	109-1	612894	619101	634441	622145	1.78	cps
Sodium	23-2	18329360	18196973	17988363	18171565	0.95	cps
Strontium	86-1	2856011	2862638	2851062	2856570	0.20	cps
Strontium	88-1	24479161	24860475	25297475	24879037	1.65	cps
Sulfur	34-1	10447817	10410046	10465358	10441074	0.27	cps
Terbium	159-1	9605457	9609663	9679727	9631616	0.43	cps
Terbium	159-2	3582120	3678053	3623070	3627747	1.33	cps
Thallium	203-1	2601231	2627833	2681213	2636759	1.54	cps
Thallium	205-1	6054982	6148594	6189428	6131001	1.12	cps
Tin	118-1	2384716	2387360	2413462	2395179	0.66	cps
Titanium	47-1	4591	4671	4871	4711	3.06	cps
Uranium	238-1	7623843	7741441	7700564	7688616	0.78	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:56:09	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	601552	609743	597613	602969	1.03	cps
Ytterbium	172-1	32647	32196	32587	32476	0.75	cps
Ytterbium	172-2	14832	14365	14688	14628	1.64	cps
Ytterbium	176-1	32293	33496	33429	33072	2.04	cps
Ytterbium	176-2	14471	13951	13841	14088	2.39	cps
Yttrium	89-1	17153941	17002892	17439413	17198749	1.29	cps
Yttrium	89-2	1348205	1361737	1363460	1357801	0.62	cps
Zinc	66-2	1376878	1385646	1388832	1383786	0.45	cps
Zirconium	90-1	5728055	5757210	5864616	5783294	1.24	cps
Zirconium	91-1	1232776	1251774	1245824	1243458	0.78	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	384008	385939	386000	385316	0.29	cps
Antimony	121-1	3237799	3305415	3315046	3286087	1.28	cps
Arsenic	75-2	340	343	367	350	4.15	cps
Barium	135-1	3635393	3734851	3728057	3699434	1.50	cps
Barium	137-1	6084476	6230982	6280114	6198524	1.64	cps
Beryllium	9-1	805213	817555	815810	812859	0.82	cps
Bismuth	209-1	5225134	5289632	5336871	5283879	1.06	cps
Bismuth	209-2	2479143	2476499	2501848	2485830	0.56	cps
Bromine	81-1	32404	31125	31823	31784	2.02	cps
Cadmium	108-1	60164	61165	60422	60584	0.86	cps
Cadmium	106-1	93158	95759	96034	94984	1.67	cps
Cadmium	111-1	781315	787130	786064	784836	0.39	cps
Calcium	43-1	8951682	9010503	9075763	9012649	0.69	cps
Calcium	44-1	146349951	145774404	146778378	146300911	0.34	cps
Carbon	12-1	5578322	5571830	5512090	5554081	0.66	cps
Carbon	12-2	37792	37869	37665	37775	0.27	cps
Chlorine	35-1	20889142	22653921	23788495	22443853	6.51	cps
Chlorine	35-2	114428	117485	117861	116592	1.62	cps
Chromium	52-2	742140	741802	738336	740759	0.28	cps
Cobalt	59-2	1997070	1998626	2024330	2006675	0.76	cps
Copper	63-2	11235757	11248615	11285572	11256648	0.23	cps
Dysprosium	156-1	67211	67804	69248	68088	1.54	cps
Dysprosium	156-2	25979	25959	26406	26114	0.97	cps
Erbium	164-1	86717	88183	86599	87166	1.01	cps
Erbium	164-2	32483	32450	32496	32476	0.07	cps
Gadolinium	160-1	67436	67671	68036	67714	0.45	cps
Gadolinium	160-2	31434	30979	30685	31033	1.22	cps
Holmium	165-1	9448469	9478755	9170939	9366054	1.81	cps
Holmium	165-2	3738875	3674114	3655550	3689513	1.19	cps
Indium	115-1	8031689	8293151	8317458	8214099	1.93	cps
Indium	115-2	904703	897527	891790	898007	0.72	cps
Iron	54-2	14473179	14289316	14017118	14259871	1.61	cps
Iron	56-2	263698656	260357129	262686989	262247592	0.65	cps
Iron	57-2	6576294	6609219	6614320	6599944	0.31	cps
Krypton	83-1	600	577	643	607	5.58	cps
Lead	206-1	10396458	10687693	10614727	10566292	1.43	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8962095	9181102	9361379	9168192	2.18	cps
Lead	208-1	41249787	42123162	42690881	42021277	1.73	cps
Lithium	6-1	2525188	2648073	2518438	2563900	2.85	cps
Magnesium	24-2	9542375	9427650	9462009	9477345	0.62	cps
Manganese	55-2	10952521	10928175	10843368	10908021	0.53	cps
Molybdenum	94-1	5472421	5701255	5527030	5566902	2.15	cps
Molybdenum	95-1	6042962	6260039	6172079	6158360	1.77	cps
Molybdenum	96-1	6828082	6913882	6907023	6882995	0.69	cps
Molybdenum	97-1	3732383	3792109	3814293	3779595	1.12	cps
Molybdenum	98-1	9653910	9830264	9905329	9796501	1.32	cps
Neodymium	150-1	59699	59842	60429	59990	0.64	cps
Neodymium	150-2	16340	16871	16864	16692	1.82	cps
Nickel	60-2	418650	426553	432560	425921	1.64	cps
Phosphorus	31-2	163	70	183	139	43.56	cps
Potassium	39-2	1650028	1664381	1643838	1652749	0.64	cps
Rhodium	103-1	7364150	7480537	7648767	7497818	1.91	cps
Rhodium	103-2	3294431	3218748	3243655	3252278	1.19	cps
Scandium	45-1	5611681	5755747	5759508	5708979	1.48	cps
Scandium	45-2	124020	124460	126659	125046	1.13	cps
Selenium	82-1	50489	50978	48824	50097	2.25	cps
Selenium	77-2	1127	1230	1070	1142	7.10	cps
Selenium	78-2	3534	3634	3527	3565	1.68	cps
Silicon	28-1	166326201	165907784	164105481	165446489	0.71	cps
Silver	107-1	659533	667973	664639	664049	0.64	cps
Silver	109-1	620094	619770	624368	621411	0.41	cps
Sodium	23-2	18489955	18456690	18423075	18456573	0.18	cps
Strontium	86-1	2886353	2848371	2924900	2886541	1.33	cps
Strontium	88-1	25040534	24599630	25034761	24891642	1.02	cps
Sulfur	34-1	10579664	10539101	10702038	10606934	0.80	cps
Terbium	159-1	9529391	9600760	9700199	9610117	0.89	cps
Terbium	159-2	3639347	3543104	3571298	3584583	1.38	cps
Thallium	203-1	2661491	2665400	2667531	2664807	0.11	cps
Thallium	205-1	6092489	6158360	6254034	6168294	1.32	cps
Tin	118-1	2381841	2488235	2471872	2447316	2.34	cps
Titanium	47-1	4637	4834	4754	4742	2.09	cps
Uranium	238-1	7667190	7790353	7915263	7790935	1.59	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADLX5	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL	Dilution Factor :	5
Date & Time Acquired :	2025-04-10 16:59:08	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	613619	612657	611670	612649	0.16	cps
Ytterbium	172-1	33095	32897	32654	32882	0.67	cps
Ytterbium	172-2	15185	14485	15125	14932	2.60	cps
Ytterbium	176-1	32383	32767	33482	32878	1.70	cps
Ytterbium	176-2	13984	14064	14254	14101	0.98	cps
Yttrium	89-1	17001494	16877352	17283840	17054229	1.22	cps
Yttrium	89-2	1352118	1360183	1360958	1357753	0.36	cps
Zinc	66-2	1402652	1387211	1387437	1392434	0.64	cps
Zirconium	90-1	5782586	5858280	5823931	5821599	0.65	cps
Zirconium	91-1	1229295	1256602	1241253	1242383	1.10	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	793089	785783	774783	784552	1.17	cps
Antimony	121-1	997	1070	970	1012	5.12	cps
Arsenic	75-2	580	457	413	483	17.89	cps
Barium	135-1	96890	97813	98477	97727	0.82	cps
Barium	137-1	167126	170632	168279	168679	1.06	cps
Beryllium	9-1	648	685	639	657	3.72	cps
Bismuth	209-1	5400762	5431213	5361536	5397837	0.65	cps
Bismuth	209-2	2618855	2588815	2588539	2598736	0.67	cps
Bromine	81-1	32752	32698	32742	32730	0.09	cps
Cadmium	108-1	50	67	70	62	17.22	cps
Cadmium	106-1	5765	5868	5825	5819	0.89	cps
Cadmium	111-1	4370	4434	4385	4396	0.76	cps
Calcium	43-1	1432530	1436751	1410727	1426669	0.98	cps
Calcium	44-1	23164262	23591347	23307150	23354253	0.93	cps
Carbon	12-1	5209803	5210051	5144620	5188158	0.73	cps
Carbon	12-2	35292	35393	35824	35503	0.79	cps
Chlorine	35-1	1803137	1628820	1495777	1642578	9.38	cps
Chlorine	35-2	6248	5604	5194	5682	9.35	cps
Chromium	52-2	24551	24418	24200	24390	0.73	cps
Cobalt	59-2	185100	184127	183520	184249	0.43	cps
Copper	63-2	107788	105626	106415	106610	1.03	cps
Dysprosium	156-1	86189	86802	84944	85979	1.10	cps
Dysprosium	156-2	32897	32974	33021	32964	0.19	cps
Erbium	164-1	92992	93489	90824	92435	1.53	cps
Erbium	164-2	35076	34732	34612	34807	0.69	cps
Gadolinium	160-1	83590	83476	83516	83527	0.07	cps
Gadolinium	160-2	39120	39451	37553	38708	2.62	cps
Holmium	165-1	9411370	9312083	9323065	9348839	0.58	cps
Holmium	165-2	3845346	3788896	3833745	3822662	0.78	cps
Indium	115-1	8412773	8518422	8540534	8490576	0.80	cps
Indium	115-2	945542	956740	951795	951359	0.59	cps
Iron	54-2	11220708	11110981	10964914	11098867	1.16	cps
Iron	56-2	206892990	205441164	201485724	204606626	1.37	cps
Iron	57-2	5225039	5193063	5058482	5158861	1.71	cps
Krypton	83-1	657	567	583	602	7.95	cps
Lead	206-1	6295	6425	6422	6381	1.16	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5231	5268	5121	5207	1.47	cps
Lead	208-1	24756	24646	23885	24429	1.94	cps
Lithium	6-1	2658121	2616512	2612224	2628952	0.96	cps
Magnesium	24-2	4598354	4545885	4439189	4527810	1.79	cps
Manganese	55-2	1189858	1168818	1155510	1171395	1.48	cps
Molybdenum	94-1	3450	3204	3127	3260	5.18	cps
Molybdenum	95-1	1013	1017	1003	1011	0.69	cps
Molybdenum	96-1	3784	3787	3817	3796	0.48	cps
Molybdenum	97-1	593	523	570	562	6.34	cps
Molybdenum	98-1	1357	1420	1370	1382	2.42	cps
Neodymium	150-1	94883	95554	94620	95019	0.51	cps
Neodymium	150-2	26246	26553	25564	26121	1.94	cps
Nickel	60-2	55230	55672	55541	55481	0.41	cps
Phosphorus	31-2	657	687	633	659	4.06	cps
Potassium	39-2	108017	108061	107818	107965	0.12	cps
Rhodium	103-1	7841396	7987415	8022208	7950340	1.21	cps
Rhodium	103-2	3445340	3450415	3460777	3452177	0.23	cps
Scandium	45-1	5992457	5941595	5936668	5956907	0.52	cps
Scandium	45-2	131185	131448	130601	131078	0.33	cps
Selenium	82-1	117	210	110	146	38.41	cps
Selenium	77-2	153	163	150	156	4.46	cps
Selenium	78-2	190	130	153	158	19.17	cps
Silicon	28-1	104802022	106717622	104662172	105393938	1.09	cps
Silver	107-1	1040	847	807	898	13.90	cps
Silver	109-1	793	750	540	694	19.51	cps
Sodium	23-2	3280036	3271478	3211948	3254487	1.14	cps
Strontium	86-1	387721	391125	385812	388219	0.69	cps
Strontium	88-1	3580416	3543153	3501584	3541717	1.11	cps
Sulfur	34-1	5967783	6005348	6039023	6004051	0.59	cps
Terbium	159-1	9786600	9852040	9806618	9815086	0.34	cps
Terbium	159-2	3615515	3692086	3671465	3659688	1.08	cps
Thallium	203-1	1870	1837	1763	1823	2.99	cps
Thallium	205-1	4808	4541	4287	4545	5.72	cps
Tin	118-1	5051	5194	5174	5140	1.51	cps
Titanium	47-1	3160	3030	2914	3035	4.07	cps
Uranium	238-1	42615	42461	41976	42350	0.79	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-02DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:02:06	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	325809	321005	318444	321753	1.16	cps
Ytterbium	172-1	29994	30178	30158	30110	0.33	cps
Ytterbium	172-2	13617	13747	13377	13580	1.38	cps
Ytterbium	176-1	18824	20092	19177	19364	3.38	cps
Ytterbium	176-2	8690	8566	8623	8626	0.72	cps
Yttrium	89-1	17614918	17380680	17624146	17539915	0.79	cps
Yttrium	89-2	1467034	1406312	1400792	1424713	2.58	cps
Zinc	66-2	100231	98771	97667	98890	1.30	cps
Zirconium	90-1	6898	6552	6418	6623	3.74	cps
Zirconium	91-1	1573	1477	1417	1489	5.31	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	565734	567067	557230	563344	0.95	cps
Antimony	121-1	330	343	297	323	7.43	cps
Arsenic	75-2	513	443	427	461	9.97	cps
Barium	135-1	99858	97884	99603	99115	1.08	cps
Barium	137-1	171560	169113	168981	169885	0.85	cps
Beryllium	9-1	758	731	797	762	4.35	cps
Bismuth	209-1	5296589	5391713	5444151	5377484	1.39	cps
Bismuth	209-2	2606358	2606181	2563663	2592067	0.95	cps
Bromine	81-1	31412	30340	31783	31178	2.40	cps
Cadmium	108-1	43	50	43	46	8.45	cps
Cadmium	106-1	5911	5918	5881	5904	0.33	cps
Cadmium	111-1	4448	4488	4473	4469	0.45	cps
Calcium	43-1	2060358	2137478	2139115	2112317	2.13	cps
Calcium	44-1	34269514	33830128	34538789	34212810	1.05	cps
Carbon	12-1	5188097	5162692	5093585	5148125	0.95	cps
Carbon	12-2	34434	34591	35142	34722	1.07	cps
Chlorine	35-1	781425	753108	723279	752604	3.86	cps
Chlorine	35-2	2974	3004	3154	3044	3.17	cps
Chromium	52-2	11678	12045	11932	11885	1.58	cps
Cobalt	59-2	190010	189321	186903	188745	0.86	cps
Copper	63-2	126733	124917	124042	125231	1.10	cps
Dysprosium	156-1	90362	91943	90262	90856	1.04	cps
Dysprosium	156-2	35835	34027	35176	35012	2.61	cps
Erbium	164-1	99888	101872	102642	101467	1.40	cps
Erbium	164-2	39101	38890	38064	38685	1.42	cps
Gadolinium	160-1	87723	88189	89726	88546	1.18	cps
Gadolinium	160-2	40705	40983	40374	40687	0.75	cps
Holmium	165-1	9313148	9329696	9488544	9377129	1.03	cps
Holmium	165-2	3765899	3784278	3821462	3790546	0.75	cps
Indium	115-1	8406936	8472303	8512929	8464056	0.63	cps
Indium	115-2	944637	949445	954939	949674	0.54	cps
Iron	54-2	11695057	11528626	11537105	11586929	0.81	cps
Iron	56-2	215280037	211721264	211200830	212734043	1.04	cps
Iron	57-2	5404438	5313242	5295637	5337772	1.09	cps
Krypton	83-1	567	557	567	563	1.03	cps
Lead	206-1	5154	5044	5184	5128	1.44	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4271	4307	4171	4250	1.67	cps
Lead	208-1	19503	19799	19733	19678	0.79	cps
Lithium	6-1	2643817	2656994	2631745	2644185	0.48	cps
Magnesium	24-2	4295190	4299472	4173748	4256137	1.68	cps
Manganese	55-2	1982239	1942062	1990596	1971632	1.32	cps
Molybdenum	94-1	1927	2157	2094	2059	5.77	cps
Molybdenum	95-1	867	750	797	804	7.30	cps
Molybdenum	96-1	3817	3597	3557	3657	3.83	cps
Molybdenum	97-1	413	470	460	448	6.75	cps
Molybdenum	98-1	1010	1063	1020	1031	2.75	cps
Neodymium	150-1	94483	96500	95359	95447	1.06	cps
Neodymium	150-2	26777	26035	26770	26527	1.61	cps
Nickel	60-2	48057	48553	48185	48265	0.53	cps
Phosphorus	31-2	283	277	287	282	1.80	cps
Potassium	39-2	110609	110122	111265	110665	0.52	cps
Rhodium	103-1	7879665	7857680	7923182	7886842	0.42	cps
Rhodium	103-2	3490847	3498233	3472907	3487329	0.37	cps
Scandium	45-1	5890382	5879646	6059374	5943134	1.70	cps
Scandium	45-2	130351	129527	131024	130301	0.58	cps
Selenium	82-1	157	197	200	184	13.07	cps
Selenium	77-2	157	173	170	167	5.29	cps
Selenium	78-2	163	133	120	139	15.98	cps
Silicon	28-1	113819208	114224948	113609342	113884499	0.27	cps
Silver	107-1	450	430	397	426	6.33	cps
Silver	109-1	340	330	320	330	3.03	cps
Sodium	23-2	3830296	3828606	3805721	3821541	0.36	cps
Strontium	86-1	526562	530279	523292	526711	0.66	cps
Strontium	88-1	4759915	4798597	4830020	4796177	0.73	cps
Sulfur	34-1	6256186	6171367	6097872	6175142	1.28	cps
Terbium	159-1	9844298	9810281	9800580	9818386	0.23	cps
Terbium	159-2	3687104	3669841	3685991	3680978	0.26	cps
Thallium	203-1	1180	1253	1157	1197	4.22	cps
Thallium	205-1	2557	2447	2560	2521	2.56	cps
Tin	118-1	4487	4791	4564	4614	3.42	cps
Titanium	47-1	2810	2730	2604	2715	3.84	cps
Uranium	238-1	49392	49232	49315	49313	0.16	cps

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-04DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-16-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:05:23	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	214455	216485	212880	214607	0.84	cps
Ytterbium	172-1	35146	34555	34645	34782	0.92	cps
Ytterbium	172-2	16117	15970	16097	16061	0.50	cps
Ytterbium	176-1	21952	22653	22272	22292	1.57	cps
Ytterbium	176-2	10801	10161	10234	10399	3.37	cps
Yttrium	89-1	17115291	17986671	17763781	17621914	2.57	cps
Yttrium	89-2	1501122	1471090	1416192	1462802	2.94	cps
Zinc	66-2	97002	97378	95579	96653	0.98	cps
Zirconium	90-1	3894	3837	4181	3971	4.64	cps
Zirconium	91-1	883	907	880	890	1.63	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	557292	556196	538933	550807	1.87	cps
Antimony	121-1	297791	297458	299681	298310	0.40	cps
Arsenic	75-2	620	600	577	599	3.62	cps
Barium	135-1	97430	98907	97457	97932	0.86	cps
Barium	137-1	166255	167267	169261	167594	0.91	cps
Beryllium	9-1	5776	5696	5760	5744	0.74	cps
Bismuth	209-1	5420365	5582078	5548168	5516870	1.55	cps
Bismuth	209-2	2660091	2587829	2579754	2609225	1.70	cps
Bromine	81-1	32742	32267	31866	32292	1.36	cps
Cadmium	108-1	417	403	410	410	1.63	cps
Cadmium	106-1	6221	5995	6405	6207	3.31	cps
Cadmium	111-1	9775	9912	9708	9798	1.06	cps
Calcium	43-1	2095028	2067678	2025368	2062691	1.70	cps
Calcium	44-1	34050069	33094364	33103887	33416106	1.64	cps
Carbon	12-1	5056988	5004078	4945659	5002241	1.11	cps
Carbon	12-2	33435	33284	33725	33481	0.67	cps
Chlorine	35-1	521171	510590	498260	510007	2.25	cps
Chlorine	35-2	2260	2260	2157	2226	2.68	cps
Chromium	52-2	13707	13807	13313	13609	1.92	cps
Cobalt	59-2	198894	200349	197415	198886	0.74	cps
Copper	63-2	151967	148254	149124	149782	1.30	cps
Dysprosium	156-1	87809	89350	88359	88506	0.88	cps
Dysprosium	156-2	34538	33726	33071	33778	2.18	cps
Erbium	164-1	101154	102111	102424	101896	0.65	cps
Erbium	164-2	38713	37727	37914	38118	1.37	cps
Gadolinium	160-1	85851	87105	86904	86620	0.78	cps
Gadolinium	160-2	40368	39619	38425	39470	2.48	cps
Holmium	165-1	9562927	9576756	9367108	9502263	1.23	cps
Holmium	165-2	3829608	3799093	3762704	3797135	0.88	cps
Indium	115-1	8579004	8710823	8434245	8574690	1.61	cps
Indium	115-2	955497	954365	956621	955495	0.12	cps
Iron	54-2	11306285	11398471	11178903	11294553	0.98	cps
Iron	56-2	208625417	210799637	206273997	208566350	1.09	cps
Iron	57-2	5370274	5319035	5159736	5283015	2.08	cps
Krypton	83-1	550	653	513	572	12.69	cps
Lead	206-1	65782	66399	66717	66299	0.72	cps

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	55347	56208	56898	56151	1.38	cps
Lead	208-1	258267	262873	261308	260816	0.90	cps
Lithium	6-1	2631213	2659853	2656566	2649211	0.59	cps
Magnesium	24-2	3919905	3855392	3825915	3867071	1.24	cps
Manganese	55-2	1741716	1777041	1760870	1759876	1.00	cps
Molybdenum	94-1	5398	5961	5695	5685	4.96	cps
Molybdenum	95-1	1077	1043	817	979	14.45	cps
Molybdenum	96-1	4404	4191	4417	4337	2.93	cps
Molybdenum	97-1	637	650	600	629	4.12	cps
Molybdenum	98-1	1347	1397	1353	1366	1.99	cps
Neodymium	150-1	91401	93117	94486	93001	1.66	cps
Neodymium	150-2	25805	25648	25214	25555	1.20	cps
Nickel	60-2	46355	45827	45626	45936	0.82	cps
Phosphorus	31-2	880	1000	777	886	12.62	cps
Potassium	39-2	161937	161971	160060	161323	0.68	cps
Rhodium	103-1	8048085	7904378	7983870	7978778	0.90	cps
Rhodium	103-2	3488642	3525047	3453181	3488957	1.03	cps
Scandium	45-1	6105759	6042912	6035796	6061489	0.64	cps
Scandium	45-2	131593	132518	131044	131718	0.57	cps
Selenium	82-1	273	237	297	269	11.25	cps
Selenium	77-2	127	150	163	147	12.65	cps
Selenium	78-2	143	147	173	154	10.65	cps
Silicon	28-1	115035698	115906062	113564395	114835385	1.03	cps
Silver	107-1	667	747	693	702	5.80	cps
Silver	109-1	580	483	510	524	9.52	cps
Sodium	23-2	4266238	4292611	4220057	4259635	0.86	cps
Strontium	86-1	531870	548082	540392	540115	1.50	cps
Strontium	88-1	4833624	4981443	4874025	4896364	1.56	cps
Sulfur	34-1	5825087	5817950	5973782	5872273	1.50	cps
Terbium	159-1	9799202	9743155	9785295	9775884	0.30	cps
Terbium	159-2	3708126	3685972	3646592	3680230	0.85	cps
Thallium	203-1	18253	18283	18937	18491	2.09	cps
Thallium	205-1	44841	43329	44208	44126	1.72	cps
Tin	118-1	4748	4738	4781	4755	0.48	cps
Titanium	47-1	3140	3164	3000	3101	2.85	cps
Uranium	238-1	48234	49523	49472	49076	1.49	cps

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LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:08:36	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	155036	153952	152715	153901	0.75	cps
Ytterbium	172-1	34685	35417	35705	35269	1.49	cps
Ytterbium	172-2	16701	16147	16107	16318	2.03	cps
Ytterbium	176-1	21531	22850	23044	22475	3.66	cps
Ytterbium	176-2	10157	10127	10378	10221	1.34	cps
Yttrium	89-1	17543604	18156585	17872709	17857633	1.72	cps
Yttrium	89-2	1493250	1504612	1483290	1493718	0.71	cps
Zinc	66-2	148852	150510	150458	149940	0.63	cps
Zirconium	90-1	12152	13640	13056	12949	5.79	cps
Zirconium	91-1	2800	3190	3010	3000	6.51	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	299044	294451	289310	294268	1.65	cps
Antimony	121-1	607478	615097	613650	612075	0.66	cps
Arsenic	75-2	760	617	710	696	10.46	cps
Barium	135-1	94671	95776	95661	95369	0.64	cps
Barium	137-1	162544	163224	162162	162643	0.33	cps
Beryllium	9-1	11211	11270	11162	11214	0.48	cps
Bismuth	209-1	5414873	5328232	5508082	5417062	1.66	cps
Bismuth	209-2	2598848	2575283	2582192	2585441	0.47	cps
Bromine	81-1	31830	32154	31906	31963	0.53	cps
Cadmium	108-1	923	850	770	848	9.05	cps
Cadmium	106-1	7082	6708	6858	6883	2.73	cps
Cadmium	111-1	15863	15903	16087	15951	0.75	cps
Calcium	43-1	4397080	4364325	4357131	4372845	0.49	cps
Calcium	44-1	70869479	73017452	72347101	72078011	1.52	cps
Carbon	12-1	5136245	5102266	5023991	5087501	1.13	cps
Carbon	12-2	34069	34223	34083	34125	0.25	cps
Chlorine	35-1	434261	423680	417718	425220	1.97	cps
Chlorine	35-2	1883	1677	1827	1796	5.95	cps
Chromium	52-2	39920	39805	39419	39714	0.66	cps
Cobalt	59-2	215794	216411	211278	214494	1.31	cps
Copper	63-2	130409	130227	131492	130709	0.52	cps
Dysprosium	156-1	63118	61480	63245	62614	1.57	cps
Dysprosium	156-2	24145	23768	23815	23909	0.86	cps
Erbium	164-1	74614	74671	74678	74654	0.05	cps
Erbium	164-2	27368	27011	27488	27289	0.91	cps
Gadolinium	160-1	61119	61548	61799	61489	0.56	cps
Gadolinium	160-2	28477	28370	27772	28206	1.35	cps
Holmium	165-1	9613966	9501474	9391828	9502423	1.17	cps
Holmium	165-2	3702486	3722085	3784500	3736357	1.15	cps
Indium	115-1	8479333	8429268	8522244	8476948	0.55	cps
Indium	115-2	934509	934819	934829	934719	0.02	cps
Iron	54-2	10679056	10411058	10385004	10491706	1.55	cps
Iron	56-2	196959397	196066844	192186717	195070986	1.30	cps
Iron	57-2	4926652	5001563	4802836	4910350	2.04	cps
Krypton	83-1	480	587	527	531	10.07	cps
Lead	206-1	118536	121250	122540	120775	1.69	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	101315	101651	103284	102084	1.03	cps
Lead	208-1	467454	474360	475540	472451	0.92	cps
Lithium	6-1	2662159	2604441	2652664	2639755	1.17	cps
Magnesium	24-2	3617021	3607462	3548965	3591149	1.03	cps
Manganese	55-2	2635675	2659358	2597806	2630946	1.18	cps
Molybdenum	94-1	5768	6105	5711	5861	3.63	cps
Molybdenum	95-1	1757	1810	1980	1849	6.31	cps
Molybdenum	96-1	4854	4871	4954	4893	1.10	cps
Molybdenum	97-1	1063	1073	1007	1048	3.43	cps
Molybdenum	98-1	2494	2550	2630	2558	2.68	cps
Neodymium	150-1	61393	62769	61400	61854	1.28	cps
Neodymium	150-2	16794	16510	17248	16851	2.21	cps
Nickel	60-2	54956	54226	54186	54456	0.80	cps
Phosphorus	31-2	1357	1353	1427	1379	3.00	cps
Potassium	39-2	210225	211231	211313	210923	0.29	cps
Rhodium	103-1	8042089	7931211	7922157	7965152	0.84	cps
Rhodium	103-2	3426472	3479173	3380439	3428694	1.44	cps
Scandium	45-1	5921315	6023319	5960991	5968541	0.86	cps
Scandium	45-2	128861	126712	125677	127083	1.28	cps
Selenium	82-1	470	337	280	362	26.93	cps
Selenium	77-2	93	110	120	108	12.50	cps
Selenium	78-2	133	127	123	128	3.98	cps
Silicon	28-1	108458302	107116848	107245855	107607002	0.69	cps
Silver	107-1	660	853	843	786	13.86	cps
Silver	109-1	683	713	827	741	10.20	cps
Sodium	23-2	6918596	6963461	6765038	6882365	1.51	cps
Strontium	86-1	755090	767695	754629	759138	0.98	cps
Strontium	88-1	6853379	7056634	6898970	6936328	1.54	cps
Sulfur	34-1	7466672	7241203	7259737	7322537	1.71	cps
Terbium	159-1	9839093	9933074	9965205	9912457	0.66	cps
Terbium	159-2	3622230	3677085	3637413	3645576	0.78	cps
Thallium	203-1	29647	29711	29821	29726	0.30	cps
Thallium	205-1	70470	70550	71864	70961	1.10	cps
Tin	118-1	5271	4878	5131	5093	3.92	cps
Titanium	47-1	3184	3140	3230	3185	1.41	cps
Uranium	238-1	37519	38211	39815	38515	3.06	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-12DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-23-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:11:52	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63694	64384	62536	63538	1.47	cps
Ytterbium	172-1	27462	27275	28364	27700	2.10	cps
Ytterbium	172-2	12716	12506	12539	12587	0.90	cps
Ytterbium	176-1	17525	17819	17882	17742	1.07	cps
Ytterbium	176-2	7832	8209	8069	8037	2.37	cps
Yttrium	89-1	17001659	17517536	17258857	17259351	1.49	cps
Yttrium	89-2	1348299	1354232	1350816	1351116	0.22	cps
Zinc	66-2	182398	182958	180211	181856	0.80	cps
Zirconium	90-1	12422	13457	12746	12875	4.11	cps
Zirconium	91-1	2950	3000	2957	2969	0.91	cps

Reviewed By:mohan
On:4/15/2025 1:10:06 PM
Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	257034	254890	251745	254556	1.04	cps
Antimony	121-1	571962	586036	581291	579763	1.24	cps
Arsenic	75-2	997	1057	1090	1048	4.51	cps
Barium	135-1	106391	103794	104935	105040	1.24	cps
Barium	137-1	181014	181777	182080	181624	0.30	cps
Beryllium	9-1	14214	14483	14404	14367	0.96	cps
Bismuth	209-1	5407427	5422300	5454354	5428027	0.44	cps
Bismuth	209-2	2631017	2620432	2609137	2620195	0.42	cps
Bromine	81-1	31880	32324	32605	32269	1.13	cps
Cadmium	108-1	920	950	963	944	2.35	cps
Cadmium	106-1	6742	6872	7185	6933	3.29	cps
Cadmium	111-1	18009	18086	18089	18061	0.25	cps
Calcium	43-1	3357836	3412271	3423222	3397776	1.03	cps
Calcium	44-1	54697969	55908576	55667621	55424722	1.16	cps
Carbon	12-1	5011924	4880583	5003433	4965313	1.48	cps
Carbon	12-2	33461	33344	32506	33104	1.57	cps
Chlorine	35-1	363871	359484	354269	359208	1.34	cps
Chlorine	35-2	1563	1527	1470	1520	3.09	cps
Chromium	52-2	15882	15842	16046	15923	0.68	cps
Cobalt	59-2	183737	183645	181535	182972	0.68	cps
Copper	63-2	118029	117071	116786	117295	0.56	cps
Dysprosium	156-1	49250	48946	49264	49153	0.37	cps
Dysprosium	156-2	19307	19134	18079	18840	3.53	cps
Erbium	164-1	59425	58129	57832	58462	1.45	cps
Erbium	164-2	21968	21290	21454	21571	1.64	cps
Gadolinium	160-1	47618	49806	49431	48952	2.39	cps
Gadolinium	160-2	22409	22369	21971	22250	1.09	cps
Holmium	165-1	9411664	9378788	9288409	9359620	0.68	cps
Holmium	165-2	3751824	3755297	3763332	3756817	0.16	cps
Indium	115-1	8559146	8517870	8563066	8546694	0.29	cps
Indium	115-2	936524	931505	927672	931900	0.48	cps
Iron	54-2	9021767	9100862	8987568	9036733	0.64	cps
Iron	56-2	166805671	167983794	166137231	166975565	0.56	cps
Iron	57-2	4252087	4271285	4209442	4244271	0.75	cps
Krypton	83-1	457	443	520	473	8.65	cps
Lead	206-1	154732	154708	155110	154850	0.15	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	129332	131032	131479	130614	0.87	cps
Lead	208-1	606417	605642	610096	607385	0.39	cps
Lithium	6-1	2565117	2614770	2577136	2585674	1.00	cps
Magnesium	24-2	3101738	3075982	3046733	3074818	0.90	cps
Manganese	55-2	2108882	2102119	2066209	2092403	1.10	cps
Molybdenum	94-1	4257	4527	4421	4402	3.09	cps
Molybdenum	95-1	1813	1723	1670	1736	4.17	cps
Molybdenum	96-1	4221	4064	4374	4220	3.67	cps
Molybdenum	97-1	947	943	997	962	3.10	cps
Molybdenum	98-1	2497	2484	2454	2478	0.90	cps
Neodymium	150-1	48380	48594	49645	48873	1.38	cps
Neodymium	150-2	13240	13550	13223	13338	1.38	cps
Nickel	60-2	42968	42480	42540	42663	0.62	cps
Phosphorus	31-2	1327	1423	1333	1361	3.97	cps
Potassium	39-2	193026	191060	190925	191671	0.61	cps
Rhodium	103-1	7896123	8052864	7947356	7965448	1.00	cps
Rhodium	103-2	3396804	3397715	3388753	3394424	0.15	cps
Scandium	45-1	5947967	5977215	5945763	5956982	0.29	cps
Scandium	45-2	128706	125492	127123	127107	1.26	cps
Selenium	82-1	723	773	720	739	4.04	cps
Selenium	77-2	73	77	80	77	4.35	cps
Selenium	78-2	147	140	140	142	2.71	cps
Silicon	28-1	96670695	97731512	97183765	97195324	0.55	cps
Silver	107-1	1823	1720	1750	1765	3.01	cps
Silver	109-1	1513	1473	1527	1505	1.84	cps
Sodium	23-2	6656502	6561726	6555389	6591206	0.86	cps
Strontium	86-1	594985	605667	595505	598719	1.01	cps
Strontium	88-1	5399218	5331316	5407863	5379466	0.78	cps
Sulfur	34-1	6146183	6223545	6145221	6171649	0.73	cps
Terbium	159-1	9727688	9704551	9793309	9741849	0.47	cps
Terbium	159-2	3695097	3670936	3591901	3652644	1.48	cps
Thallium	203-1	35104	35415	35268	35262	0.44	cps
Thallium	205-1	83570	83235	84918	83908	1.06	cps
Tin	118-1	5792	4988	4971	5250	8.94	cps
Titanium	47-1	3060	3097	3157	3105	1.57	cps
Uranium	238-1	32184	32455	32318	32319	0.42	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	Q1730-16DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-25-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-10 17:15:06	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	74754	73829	72663	73749	1.42	cps
Ytterbium	172-1	20102	20746	20199	20349	1.71	cps
Ytterbium	172-2	9260	9507	9383	9383	1.32	cps
Ytterbium	176-1	13841	13747	13831	13806	0.37	cps
Ytterbium	176-2	5685	5988	5825	5832	2.60	cps
Yttrium	89-1	16937466	16620401	16853718	16803862	0.98	cps
Yttrium	89-2	1331350	1329775	1320166	1327097	0.46	cps
Zinc	66-2	190131	191557	188124	189937	0.91	cps
Zirconium	90-1	8276	9206	8476	8653	5.66	cps
Zirconium	91-1	1847	2184	1827	1952	10.27	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5808417	5804072	5817456	5809982	0.12	cps
Antimony	121-1	15104758	15554489	15354679	15337975	1.47	cps
Arsenic	75-2	359584	363059	360993	361212	0.48	cps
Barium	135-1	18369894	18786713	18521914	18559507	1.14	cps
Barium	137-1	31090149	31627701	31519473	31412441	0.91	cps
Beryllium	9-1	3756220	3785449	3748478	3763382	0.52	cps
Bismuth	209-1	4787120	4760500	4779341	4775654	0.29	cps
Bismuth	209-2	2232226	2220950	2230313	2227830	0.27	cps
Bromine	81-1	30477	30346	30336	30386	0.26	cps
Cadmium	108-1	289517	290900	292524	290980	0.52	cps
Cadmium	106-1	422732	427364	425892	425329	0.56	cps
Cadmium	111-1	3755772	3722663	3759400	3745945	0.54	cps
Calcium	43-1	25053771	25133531	25061161	25082821	0.18	cps
Calcium	44-1	410681394	407400354	409154181	409078643	0.40	cps
Carbon	12-1	5767430	5816392	5952920	5845580	1.64	cps
Carbon	12-2	47195	47831	46797	47275	1.10	cps
Chlorine	35-1	330085	327045	324469	327200	0.86	cps
Chlorine	35-2	1510	1437	1443	1463	2.77	cps
Chromium	52-2	3771372	3754277	3788559	3771403	0.45	cps
Cobalt	59-2	6716780	6490395	6484614	6563930	2.02	cps
Copper	63-2	49122253	48372948	49086699	48860633	0.87	cps
Dysprosium	156-1	723	737	677	712	4.42	cps
Dysprosium	156-2	173	233	180	196	16.82	cps
Erbium	164-1	683	677	677	679	0.57	cps
Erbium	164-2	297	247	213	252	16.63	cps
Gadolinium	160-1	480	463	477	473	1.86	cps
Gadolinium	160-2	250	173	233	219	18.42	cps
Holmium	165-1	8733147	8943218	8798934	8825100	1.22	cps
Holmium	165-2	3569638	3491522	3550132	3537098	1.15	cps
Indium	115-1	7281776	7228045	7358681	7289501	0.90	cps
Indium	115-2	795206	796871	796917	796332	0.12	cps
Iron	54-2	36408695	36101694	36437107	36315832	0.51	cps
Iron	56-2	676357777	670542510	668210817	671703701	0.62	cps
Iron	57-2	16924941	16771016	16846908	16847622	0.46	cps
Krypton	83-1	430	477	427	444	6.29	cps
Lead	206-1	49437106	49414466	50793326	49881633	1.58	cps

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	41994071	41653942	42690749	42112921	1.26	cps
Lead	208-1	194036079	194628786	197993524	195552796	1.09	cps
Lithium	6-1	2276538	2358795	2352535	2329290	1.97	cps
Magnesium	24-2	103295225	101285295	102902725	102494415	1.04	cps
Manganese	55-2	16035282	15918814	16003954	15986017	0.38	cps
Molybdenum	94-1	55642201	56577577	55484068	55901282	1.06	cps
Molybdenum	95-1	78952145	80577335	80804672	80111384	1.26	cps
Molybdenum	96-1	86886802	87316852	87668739	87290798	0.45	cps
Molybdenum	97-1	50068849	49754644	49904833	49909442	0.31	cps
Molybdenum	98-1	129250808	127955621	131930598	129712343	1.56	cps
Neodymium	150-1	1363	1467	1383	1405	3.90	cps
Neodymium	150-2	100	93	90	94	5.39	cps
Nickel	60-2	1831334	1795694	1799433	1808820	1.08	cps
Phosphorus	31-2	60948	58738	59568	59751	1.87	cps
Potassium	39-2	37611596	37153451	37452116	37405721	0.62	cps
Rhodium	103-1	6884540	6761878	6744917	6797112	1.12	cps
Rhodium	103-2	2931650	2931930	2957274	2940285	0.50	cps
Scandium	45-1	5378620	5393175	5352011	5374602	0.39	cps
Scandium	45-2	120913	121475	119582	120657	0.81	cps
Selenium	82-1	225269	224832	228229	226110	0.82	cps
Selenium	77-2	4577	4637	4828	4681	2.79	cps
Selenium	78-2	16116	15649	15999	15921	1.53	cps
Silicon	28-1	10055975	9918705	10170837	10048506	1.26	cps
Silver	107-1	18587498	18586036	18691829	18621787	0.33	cps
Silver	109-1	17547216	17471376	17592393	17536995	0.35	cps
Sodium	23-2	208203097	207475050	207965684	207881277	0.18	cps
Strontium	86-1	5294869	5388969	5307890	5330576	0.96	cps
Strontium	88-1	45665121	46278339	45665921	45869794	0.77	cps
Sulfur	34-1	1959257	1938748	1890707	1929571	1.82	cps
Terbium	159-1	8951056	9031328	9204802	9062395	1.43	cps
Terbium	159-2	3426040	3458614	3428430	3437695	0.53	cps
Thallium	203-1	12087535	12050652	12344310	12160833	1.32	cps
Thallium	205-1	28712703	28695993	29115030	28841242	0.82	cps
Tin	118-1	12476279	12625567	12725537	12609127	0.99	cps
Titanium	47-1	23357465	23367350	23191900	23305572	0.42	cps
Uranium	238-1	37619367	37973714	38162107	37918396	0.73	cps

Reviewed By:mohan
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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:19:01	DataFile Name :	059CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2922687	2885000	2913132	2906940	0.67	cps
Ytterbium	172-1	977	1003	1030	1003	2.66	cps
Ytterbium	172-2	480	480	430	463	6.23	cps
Ytterbium	176-1	59912	61532	61730	61058	1.63	cps
Ytterbium	176-2	23681	23080	23832	23531	1.69	cps
Yttrium	89-1	14476795	14623436	14194498	14431576	1.51	cps
Yttrium	89-2	1158773	1145145	1146812	1150243	0.65	cps
Zinc	66-2	5611448	5656915	5710231	5659531	0.87	cps
Zirconium	90-1	27939813	28472324	27723989	28045375	1.37	cps
Zirconium	91-1	6179037	6298746	6277435	6251739	1.02	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	420	447	463	443	4.93	cps
Antimony	121-1	1727	1580	1553	1620	5.76	cps
Arsenic	75-2	10	20	7	12	56.76	cps
Barium	135-1	327	290	263	293	10.84	cps
Barium	137-1	440	537	570	516	13.10	cps
Beryllium	9-1	275	268	212	251	13.68	cps
Bismuth	209-1	5611551	5699267	5672471	5661096	0.79	cps
Bismuth	209-2	2689067	2695197	2698706	2694323	0.18	cps
Bromine	81-1	31422	31218	32174	31605	1.59	cps
Cadmium	108-1	37	13	20	23	51.52	cps
Cadmium	106-1	5438	5294	5258	5330	1.79	cps
Cadmium	111-1	3891	3780	3746	3806	1.98	cps
Calcium	43-1	1810	1617	1900	1776	8.15	cps
Calcium	44-1	48140	46422	48207	47590	2.13	cps
Carbon	12-1	4746954	4659602	4545556	4650704	2.17	cps
Carbon	12-2	29359	29503	29236	29366	0.46	cps
Chlorine	35-1	248253	246816	246159	247076	0.43	cps
Chlorine	35-2	1020	1120	1083	1074	4.71	cps
Chromium	52-2	1927	1907	1763	1866	4.78	cps
Cobalt	59-2	140	153	130	141	8.30	cps
Copper	63-2	2714	2607	2694	2671	2.12	cps
Dysprosium	156-1	3	13	10	9	57.30	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	63	80	53	66	20.55	cps
Erbium	164-2	17	27	17	20	28.86	cps
Gadolinium	160-1	47	57	53	52	9.75	cps
Gadolinium	160-2	17	7	7	10	57.72	cps
Holmium	165-1	9465348	9674776	9568234	9569453	1.09	cps
Holmium	165-2	3805909	3934878	3775357	3838714	2.21	cps
Indium	115-1	8554680	8674085	8606645	8611803	0.70	cps
Indium	115-2	961896	954901	959286	958694	0.37	cps
Iron	54-2	1373	1503	1380	1419	5.16	cps
Iron	56-2	18282	18305	18102	18230	0.61	cps
Iron	57-2	503	517	393	471	14.37	cps
Krypton	83-1	393	443	387	408	7.60	cps
Lead	206-1	2344	2147	2027	2172	7.36	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1997	1974	1740	1903	7.46	cps
Lead	208-1	9305	8735	8051	8697	7.22	cps
Lithium	6-1	2740149	2790866	2795561	2775525	1.11	cps
Magnesium	24-2	1150	1300	1233	1228	6.12	cps
Manganese	55-2	1253	1207	1377	1279	6.87	cps
Molybdenum	94-1	2497	2070	1987	2185	12.53	cps
Molybdenum	95-1	1870	1633	1500	1668	11.24	cps
Molybdenum	96-1	1647	1427	1333	1469	10.95	cps
Molybdenum	97-1	947	743	630	773	20.75	cps
Molybdenum	98-1	2390	1757	1673	1940	20.20	cps
Neodymium	150-1	13	17	17	16	12.40	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	990	973	890	951	5.63	cps
Phosphorus	31-2	140	113	100	118	17.29	cps
Potassium	39-2	28107	28131	27984	28074	0.28	cps
Rhodium	103-1	8107661	8265949	8120382	8164664	1.08	cps
Rhodium	103-2	3570572	3515946	3526290	3537603	0.82	cps
Scandium	45-1	5811170	5875225	5799016	5828470	0.70	cps
Scandium	45-2	128435	126360	128633	127809	0.99	cps
Selenium	82-1	-33	-93	-23	-50	-75.72	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	37	43	34	29.57	cps
Silicon	28-1	531652	540423	522179	531418	1.72	cps
Silver	107-1	1207	917	960	1028	15.22	cps
Silver	109-1	997	917	823	912	9.51	cps
Sodium	23-2	81593	81080	79408	80694	1.42	cps
Strontium	86-1	670	757	743	723	6.45	cps
Strontium	88-1	1290	1157	1217	1221	5.47	cps
Sulfur	34-1	706461	711280	717427	711723	0.77	cps
Terbium	159-1	9839438	9840889	9834198	9838175	0.04	cps
Terbium	159-2	3725444	3705882	3709604	3713643	0.28	cps
Thallium	203-1	833	773	707	771	8.22	cps
Thallium	205-1	1933	1780	1810	1841	4.41	cps
Tin	118-1	4097	4581	4274	4317	5.67	cps
Titanium	47-1	630	513	610	584	10.68	cps
Uranium	238-1	520	400	447	456	13.28	cps

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Inst Id :P8
LB :LB135405

LB Number :	LB135405	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-04-10 17:23:15	DataFile Name :	060CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	33	40	23	32	26.04	cps
Ytterbium	172-1	67	47	80	64	26.03	cps
Ytterbium	172-2	37	10	47	31	60.93	cps
Ytterbium	176-1	1077	1120	1170	1122	4.16	cps
Ytterbium	176-2	220	210	247	226	8.40	cps
Yttrium	89-1	15724137	15739712	16049031	15837627	1.16	cps
Yttrium	89-2	1244230	1254004	1255146	1251127	0.48	cps
Zinc	66-2	2387	2257	2347	2330	2.86	cps
Zirconium	90-1	3364	3314	3140	3273	3.58	cps
Zirconium	91-1	647	743	667	686	7.44	cps

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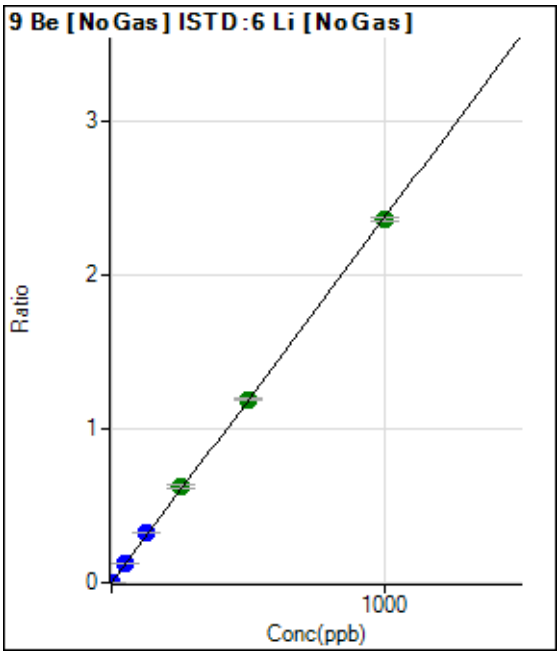
Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041425 MS.b\
Analysis File: P8041425 MS.batch.bin
DA Date-Time: 2025-04-14 19:05:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-04-14 15:05:42
2	006CALS.d	S02	2025-04-14 15:12:28
3	007CALB.d	S03	2025-04-14 15:15:50
4	008CALS.d	S04	2025-04-14 15:18:54
5	009CALS.d	S05	2025-04-14 15:21:50
6	010CALS.d	S06	2025-04-14 15:24:39
7	011CALS.d	S07	2025-04-14 15:27:24
8	012CALS.d	S08	2025-04-14 15:30:11

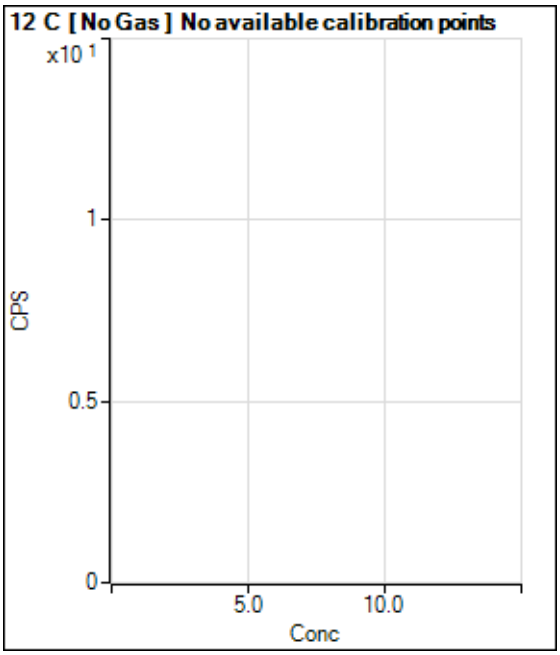
Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.74	0.0000	P	7.4
2	☐	1.000	1.219	7265.89	0.0029	P	2.0
3	☐	50.000	54.793	329221.31	0.1300	P	1.6
4	☐	125.000	135.646	790877.59	0.3218	P	1.4
5	☐	250.000	263.066	1482103.52	0.6241	A	2.2
6	☐	500.000	502.696	2807551.79	1.1926	A	1.8
7	☐	1000.000	993.815	5364742.49	2.3576	A	1.2
8	☐			621.60	0.0003	P	15.7

y = 0.0024 * x + 3.8445E-005
R = 0.9999
DL = 0.003581
BEC = 0.01621

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4125220.11		A	1.2
2	☐			4153654.62		A	2.0
3	☐			4174636.26		A	0.8
4	☐			4266026.78		A	0.5
5	☐			4472245.18		A	0.5
6	☐			5119379.16		A	1.9
7	☐			5910227.07		A	3.9
8	☐			4495699.20		A	1.4

Reviewed By:JANVI
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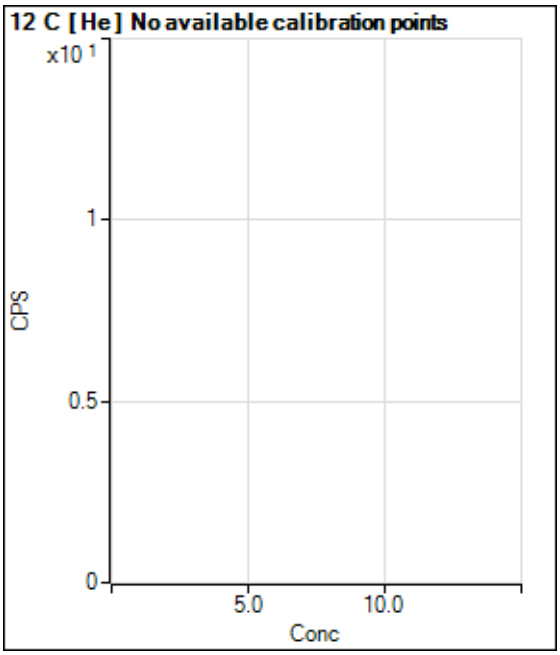
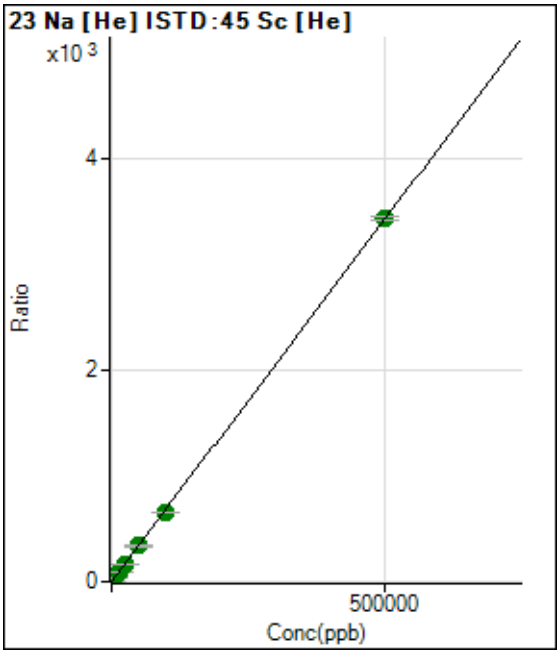
LB :LB135426



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27895.33		P	1.2
2	☐			28047.92		P	1.7
3	☐			28647.93		P	0.5
4	☐			29877.03		P	1.9
5	☐			32354.47		P	0.4
6	☐			39348.11		P	1.6
7	☐			46923.50		P	0.7
8	☐			39312.46		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34906.10	0.3642	P	1.8
2	☐	500.000	543.337	391782.90	4.0807	P	2.3
3	☐	5000.000	5070.641	3280780.54	35.0477	A	1.7
4	☐	12500.000	12633.150	7662715.86	86.7757	A	1.7
5	☐	25000.000	24804.391	14804921.58	170.0277	A	1.2
6	☐	50000.000	49128.907	29031390.96	336.4088	A	1.2
7	☐	100000.00	95380.665	57243681.93	652.7735	A	1.5
8	☐	500000.00	501016.67	298203557.78	3,427.3471	A	1.0

y = 0.0068 * x + 0.3642
R = 1.0000
DL = 2.941
BEC = 53.25

Weight: <None>
Min Conc: 0

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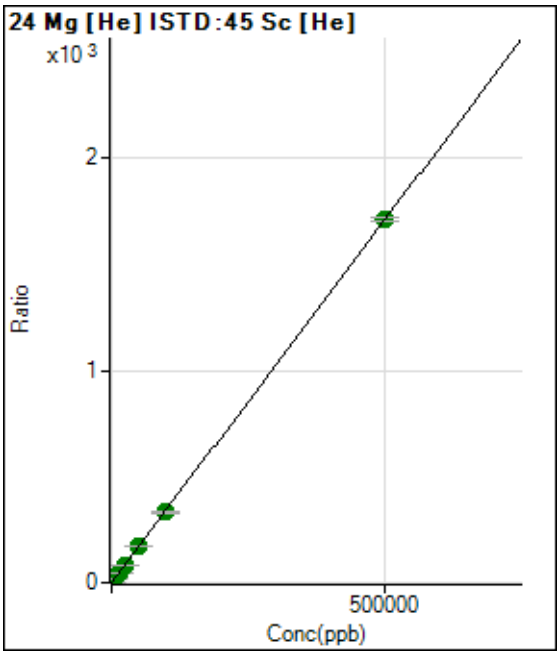
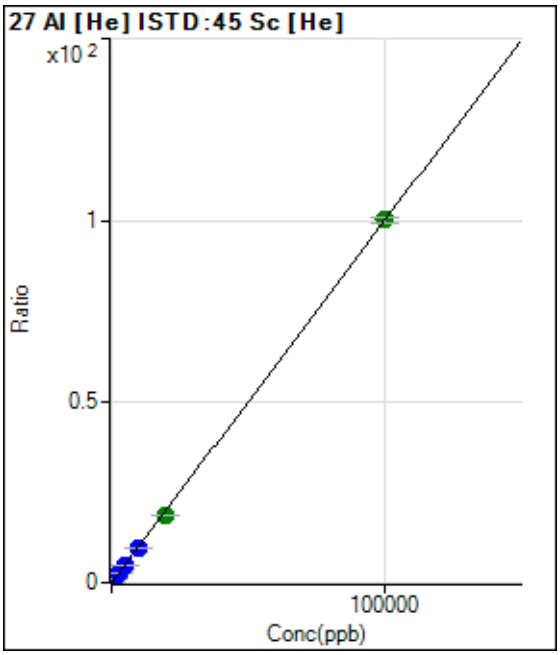


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	367.79	0.0038	P	21.2
2	☐	500.000	554.610	182260.66	1.8984	P	2.3
3	☐	5000.000	5199.536	1663107.56	17.7652	A	0.9
4	☐	12500.000	12898.179	3890864.42	44.0633	A	2.3
5	☐	25000.000	25097.057	7465271.97	85.7340	A	0.4
6	☐	50000.000	49618.439	14627766.17	169.4977	A	0.4
7	☐	100000.00	96896.661	29026230.40	330.9976	A	1.4
8	☐	500000.00	500641.96	148791547.78	1,710.1697	A	1.1

y = 0.0034 * x + 0.0038
R = 1.0000
DL = 0.715
BEC = 1.124

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	265.56	0.0028	P	6.1
2	☐	20.000	20.404	2221.30	0.0231	P	4.2
3	☐	1000.000	997.570	93455.32	0.9983	P	0.5
4	☐	2500.000	2505.622	221057.34	2.5033	P	1.6
5	☐	5000.000	4908.502	426778.76	4.9014	P	0.6
6	☐	10000.000	9605.047	827475.89	9.5884	P	0.4
7	☐	20000.000	18667.881	1634061.45	18.6329	A	1.5
8	☐	100000.00	100310.37	8709926.61	100.1104	A	1.7

y = 9.9798E-004 * x + 0.0028
R = 0.9999
DL = 0.5047
BEC = 2.776

Weight: <None>
Min Conc: 0

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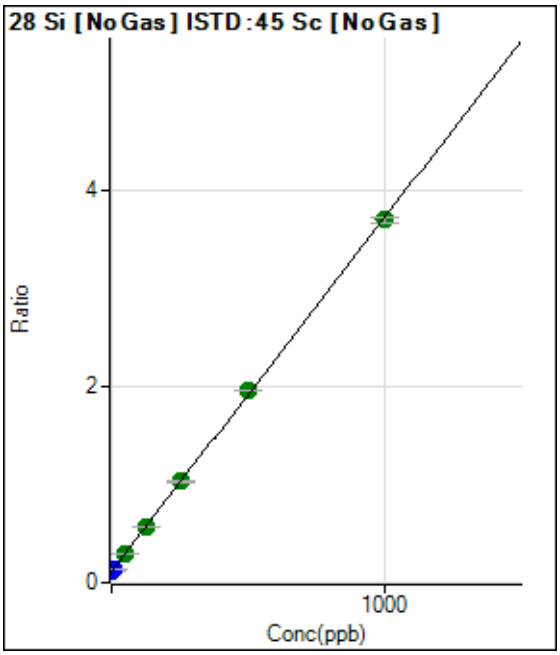
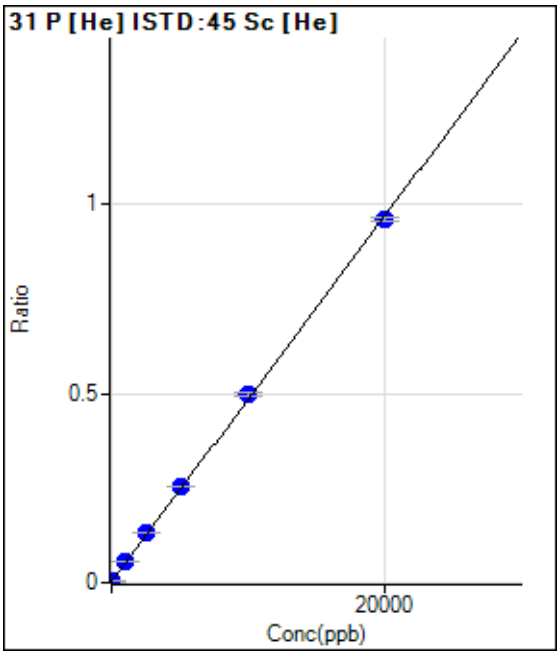


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	512346.19	0.1160	P	1.7
2	☐	10.000	7.338	632369.63	0.1425	P	0.7
3	☐	50.000	50.032	1302569.87	0.2965	A	0.8
4	☐	125.000	125.689	2447495.52	0.5693	A	0.7
5	☐	250.000	253.542	4330429.59	1.0304	A	0.4
6	☐	500.000	510.527	8033796.89	1.9571	A	0.5
7	☐	1000.000	993.790	15056432.00	3.6999	A	1.3
8	☐			741952.10	0.1864	P	4.1

y = 0.0036 * x + 0.1160
R = 0.9999
DL = 1.597
BEC = 32.17

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-16.281	135.56	0.0014	P	4.0
2	☐	0.000	16.281	286.67	0.0030	P	9.7
3	☐	1000.000	1090.911	5136.51	0.0549	P	1.2
4	☐	2500.000	2666.692	11563.60	0.1310	P	1.9
5	☐	5000.000	5197.398	22041.22	0.2531	P	1.3
6	☐	10000.000	10231.889	42820.79	0.4962	P	1.7
7	☐	20000.000	19809.324	84068.07	0.9586	P	1.0
8	☐			168.89	0.0019	P	16.1

y = 4.8281E-005 * x + 0.0022
R = 0.9998
DL = 10.78
BEC = 45.58

Weight: <None>
Min Conc: 0

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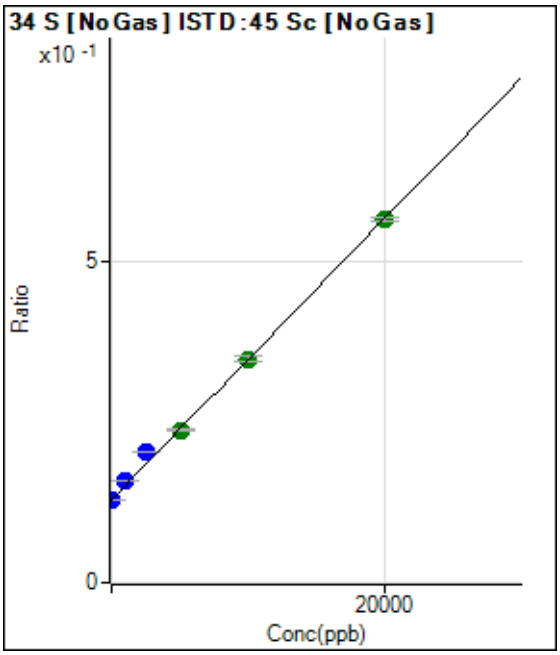
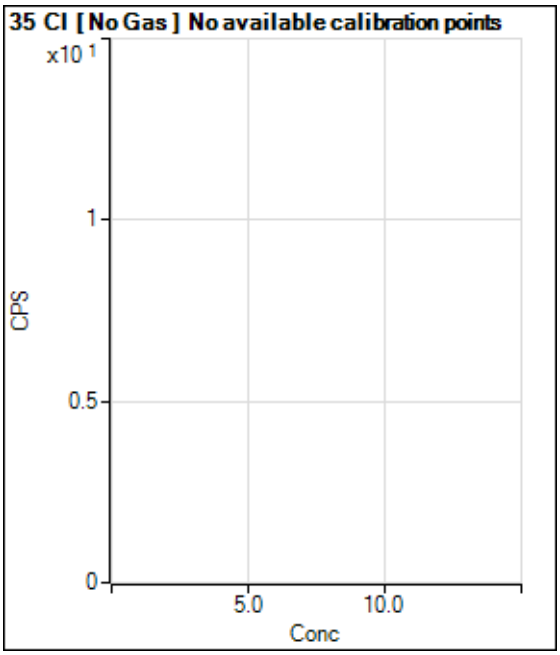


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-3.914	571618.92	0.1294	P	1.8
2	☐	0.000	3.914	575219.96	0.1296	P	0.8
3	☐	1000.000	1345.277	698977.92	0.1591	P	1.0
4	☐	2500.000	3402.079	878125.50	0.2043	P	1.2
5	☐	5000.000	4950.514	1001387.76	0.2383	A	0.8
6	☐	10000.000	9982.770	1431668.38	0.3488	A	2.6
7	☐	20000.000	19890.963	2304944.29	0.5664	A	1.0
8	☐			453982.05	0.1141	P	2.0

y = 2.1965E-005 * x + 0.1295
R = 0.9989
DL = 229.6
BEC = 5897

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			101529.21		P	1.8
2	☐			105746.84		P	1.0
3	☐			107613.88		P	0.9
4	☐			114418.68		P	0.4
5	☐			120305.67		P	0.5
6	☐			135016.86		P	1.3
7	☐			181051.94		P	2.7
8	☐			120901.90		P	0.4

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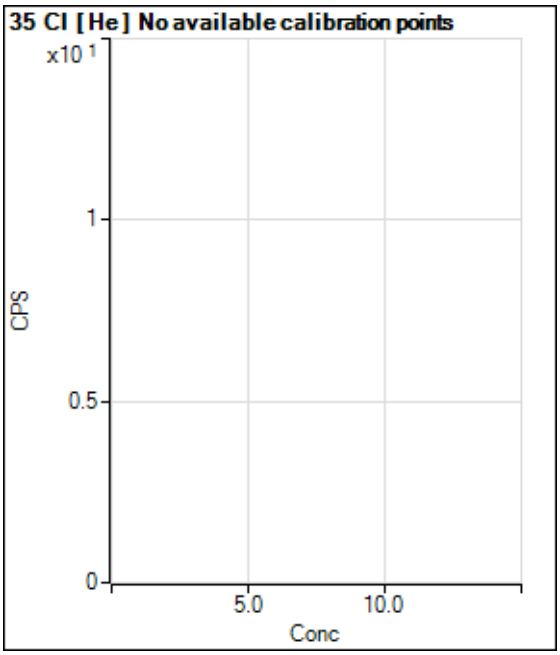
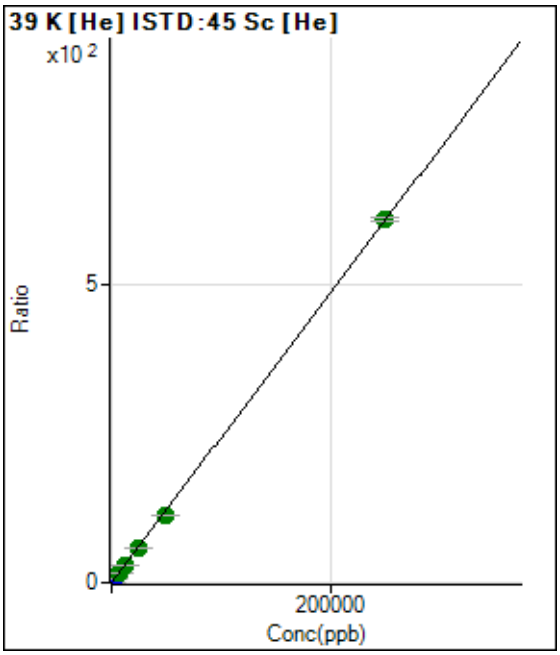


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			391.12		P	8.1
2	☐			426.68		P	15.1
3	☐			375.56		P	11.3
4	☐			440.01		P	7.2
5	☐			488.90		P	11.5
6	☐			603.35		P	8.0
7	☐			747.81		P	8.9
8	☐			561.13		P	0.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15619.65	0.1630	P	1.5
2	☐	500.000	513.060	135155.96	1.4077	P	1.9
3	☐	2500.000	2452.514	572249.86	6.1129	P	0.3
4	☐	6250.000	6215.090	1345899.32	15.2412	A	1.3
5	☐	12500.000	12102.508	2570843.54	29.5244	A	0.3
6	☐	25000.000	23344.984	4901817.84	56.7994	A	0.2
7	☐	50000.000	46200.120	9843836.52	112.2473	A	0.6
8	☐	250000.00	250946.67	52982371.99	608.9752	A	0.9

y = 0.0024 * x + 0.1630
R = 0.9999
DL = 3.08
BEC = 67.18

Weight: <None>
Min Conc: 0

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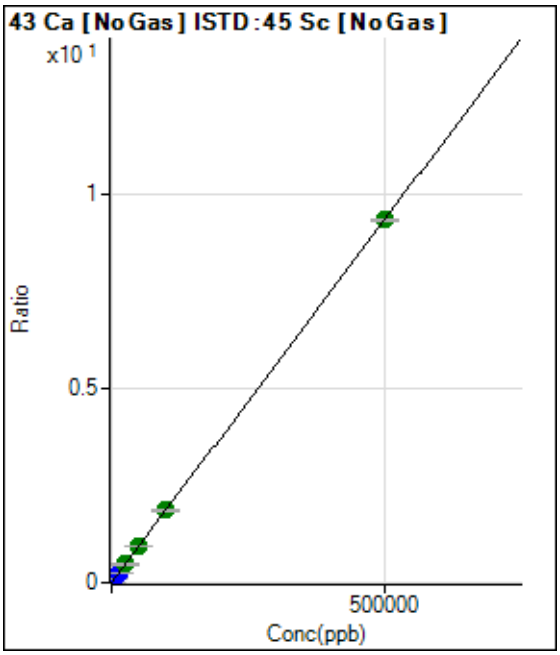
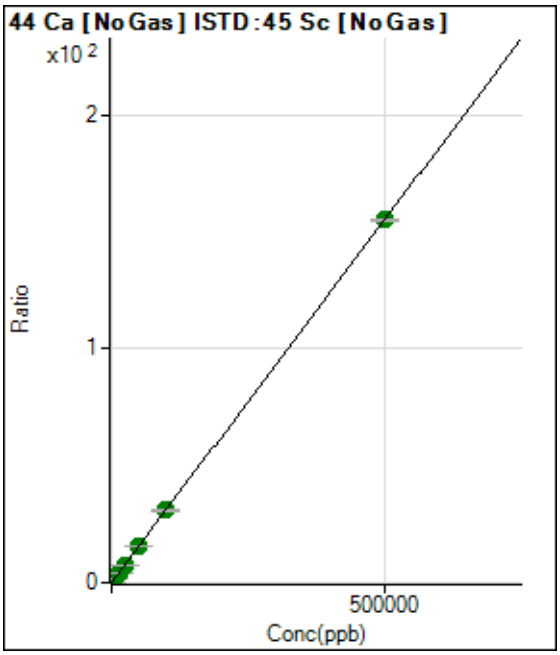


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1313.41	0.0003	P	7.6
2	☐	500.000	543.444	46424.58	0.0105	P	1.5
3	☐	5000.000	5093.978	419943.97	0.0956	P	1.2
4	☐	12500.000	12521.942	1008130.06	0.2345	P	0.5
5	☐	25000.000	25302.670	1990065.09	0.4735	A	1.7
6	☐	50000.000	50189.638	3854466.33	0.9390	A	0.9
7	☐	100000.00	99713.682	7590522.94	1.8653	A	0.9
8	☐	500000.00	500021.63	37217676.39	9.3523	A	0.4

y = 1.8703E-005 * x + 2.9753E-004
R = 1.0000
DL = 3.626
BEC = 15.91

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27470.81	0.0062	P	1.5
2	☐	500.000	537.698	767266.31	0.1729	P	0.8
3	☐	5000.000	5015.551	6858830.59	1.5609	A	0.3
4	☐	12500.000	12294.824	16411159.89	3.8173	A	0.6
5	☐	25000.000	24823.843	32365450.91	7.7010	A	0.6
6	☐	50000.000	49722.573	63294476.83	15.4191	A	0.5
7	☐	100000.00	99508.908	125547748.13	30.8517	A	0.9
8	☐	500000.00	500139.70	616970181.92	155.0382	A	0.4

y = 3.0998E-004 * x + 0.0062
R = 1.0000
DL = 0.9038
BEC = 20.07

Weight: <None>
Min Conc: 0

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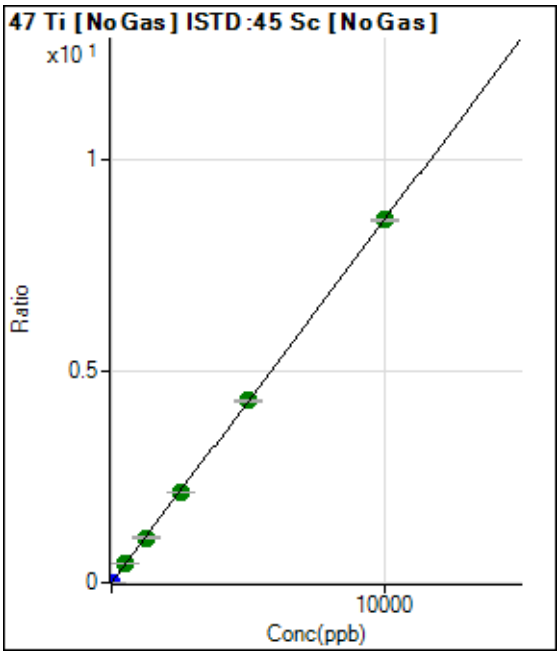
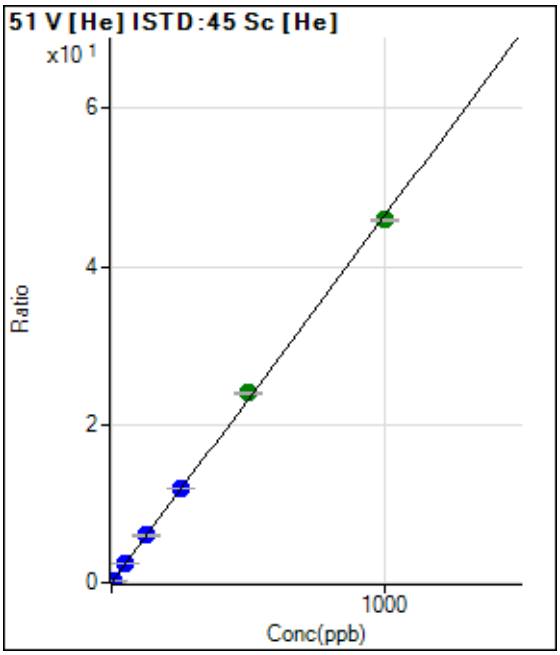


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0000	P	6.4
2	☐	5.000	5.377	20682.77	0.0047	P	3.5
3	☐	500.000	511.323	1927337.33	0.4386	A	1.4
4	☐	1250.000	1241.840	4579471.91	1.0652	A	1.2
5	☐	2500.000	2486.038	8962247.71	2.1324	A	0.9
6	☐	5000.000	5011.791	17646529.04	4.2989	A	0.8
7	☐	10000.000	9998.048	34897706.14	8.5758	A	0.9
8	☐			2551.36	0.0006	P	6.6

y = 8.5774E-004 * x + 4.9081E-005
R = 1.0000
DL = 0.01091
BEC = 0.05722

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.44	0.0003	P	39.5
2	☐	5.000	5.524	24632.41	0.2566	P	2.8
3	☐	50.000	51.629	224273.63	2.3958	P	0.1
4	☐	125.000	129.406	530223.66	6.0045	P	1.7
5	☐	250.000	256.449	1036096.23	11.8991	P	0.5
6	☐	500.000	516.581	2068475.51	23.9688	A	0.5
7	☐	1000.000	989.462	4026380.43	45.9097	A	0.7
8	☐			1174.51	0.0135	P	2.1

y = 0.0464 * x + 2.5520E-004
R = 0.9998
DL = 0.00652
BEC = 0.0055

Weight: <None>
Min Conc: 0

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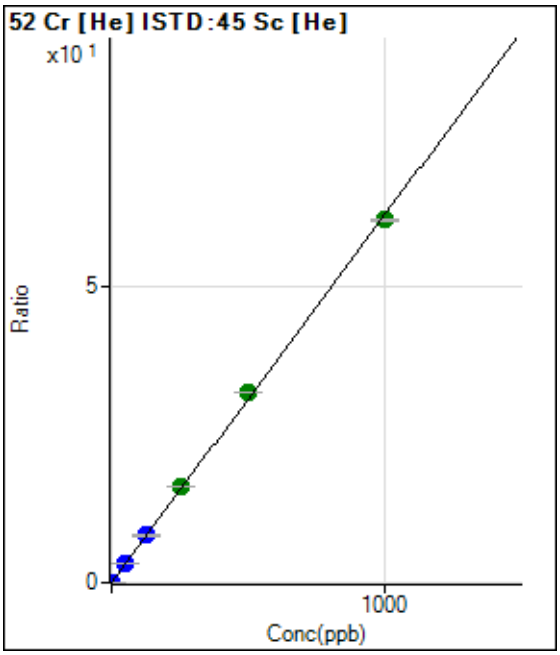
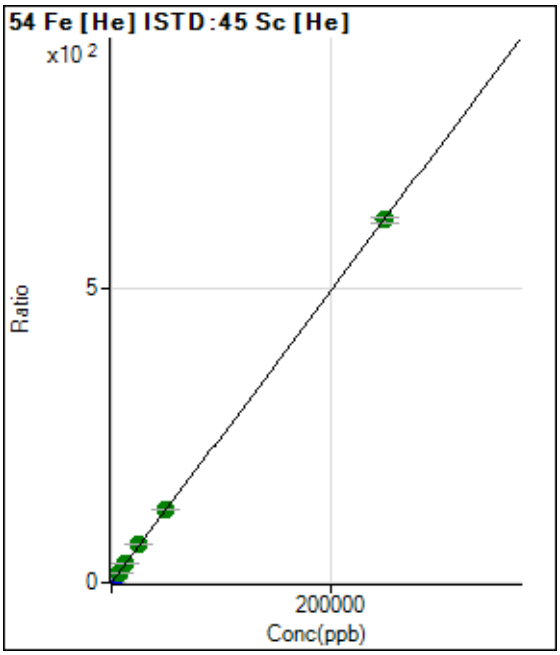


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1383.41	0.0144	P	2.2
2	☐	2.000	2.138	14105.93	0.1469	P	2.4
3	☐	50.000	51.026	297321.40	3.1761	P	0.2
4	☐	125.000	128.583	704844.90	7.9816	P	1.0
5	☐	250.000	262.345	1416657.57	16.2697	A	0.7
6	☐	500.000	517.784	2769953.33	32.0971	A	0.5
7	☐	1000.000	987.522	5367478.08	61.2026	A	0.4
8	☐			47682.46	0.5481	P	0.8

y = 0.0620 * x + 0.0144
R = 0.9997
DL = 0.01514
BEC = 0.233

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	801.14	0.0084	P	7.1
2	☐	50.000	57.182	14381.77	0.1498	P	5.3
3	☐	2500.000	2655.029	615559.88	6.5756	P	0.2
4	☐	6250.000	6904.490	1508834.27	17.0867	A	1.7
5	☐	12500.000	13445.493	2896571.24	33.2659	A	1.4
6	☐	25000.000	26458.277	5648665.82	65.4532	A	0.5
7	☐	50000.000	50795.728	11019894.14	125.6522	A	0.2
8	☐	250000.00	249629.83	53724815.87	617.4708	A	1.7

y = 0.0025 * x + 0.0084
R = 1.0000
DL = 0.7187
BEC = 3.379

Weight: <None>
Min Conc: 0

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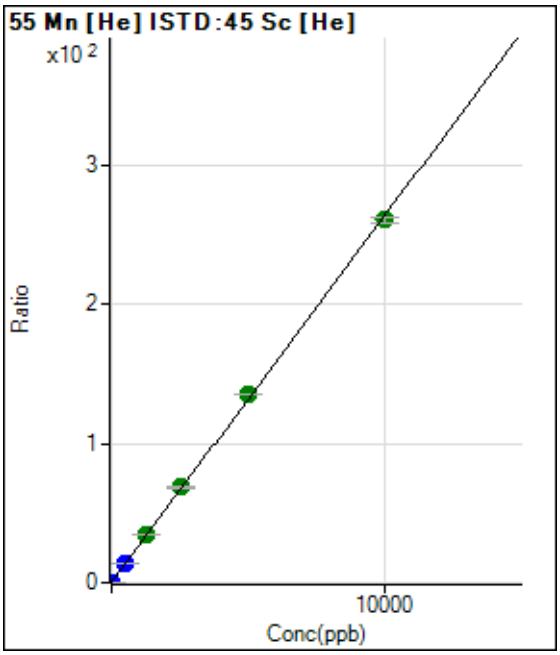

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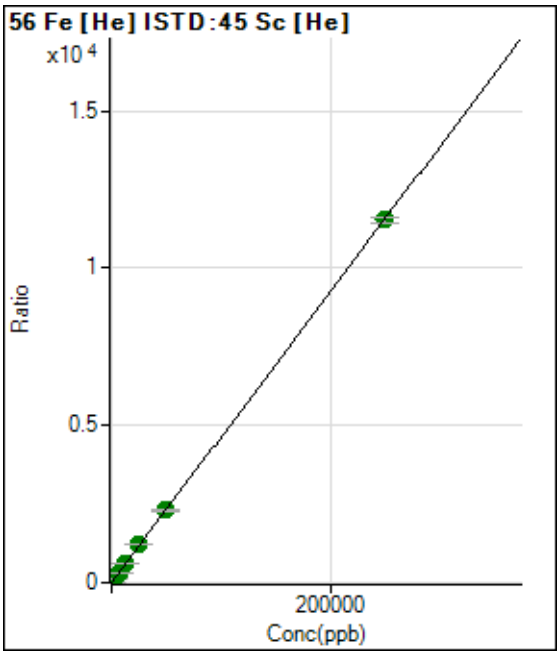
1	☐	0.000	0.000	22256.32	0.2322	P	1.4
2	☐	1.000	0.828	24388.68	0.2540	P	3.1
3	☐	500.000	513.313	1284951.87	13.7263	P	0.4
4	☐	1250.000	1321.279	3087798.98	34.9663	A	1.2
5	☐	2500.000	2591.213	5951508.38	68.3506	A	0.8
6	☐	5000.000	5151.063	11706138.02	135.6446	A	0.0
7	☐	10000.000	9892.090	22824762.16	260.2778	A	1.3
8	☐			12276.45	0.1411	P	2.0

y = 0.0263 * x + 0.2322
R = 0.9998
DL = 0.3794
BEC = 8.834

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10619.62	0.1108	P	3.2
2	☐	50.000	54.995	254317.44	2.6489	P	3.3
3	☐	2500.000	2623.706	11345534.00	121.1992	A	0.8
4	☐	6250.000	6626.934	27020014.88	305.9549	A	0.1
5	☐	12500.000	13090.022	52613126.99	604.2373	A	0.6
6	☐	25000.000	26005.016	103585461.79	1,200.2860	A	0.5
7	☐	50000.000	50153.822	202983094.75	2,314.7939	A	2.2
8	☐	250000.00	249828.57	1003191522.8	11,530.118	A	1.6

y = 0.0462 * x + 0.1108
R = 1.0000
DL = 0.227
BEC = 2.401

Weight: <None>
Min Conc: 0

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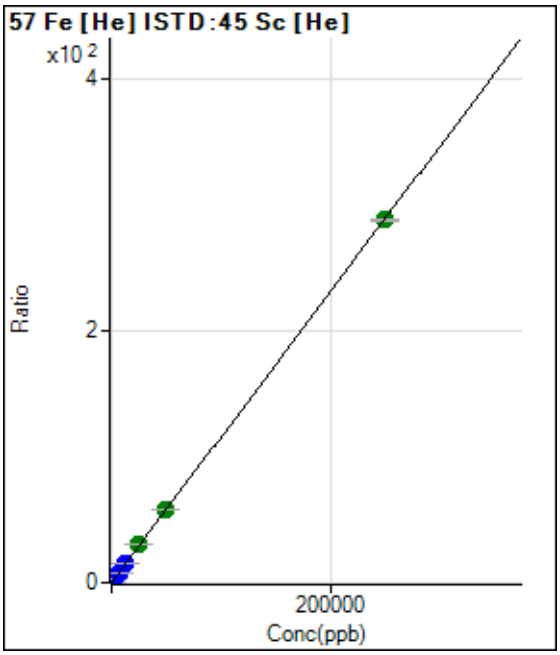
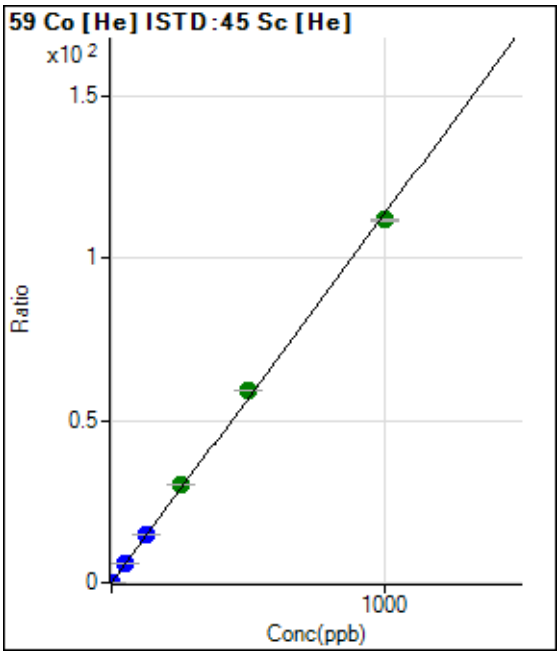


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0026	P	6.0
2	☐	50.000	53.870	6213.63	0.0647	P	2.2
3	☐	2500.000	2633.176	284654.50	3.0408	P	0.7
4	☐	6250.000	6601.688	672882.09	7.6198	P	1.3
5	☐	12500.000	13064.180	1312762.06	15.0764	P	0.5
6	☐	25000.000	26554.084	2644270.05	30.6415	A	1.3
7	☐	50000.000	50425.185	5102366.07	58.1848	A	1.6
8	☐	250000.00	249721.22	25069318.51	288.1391	A	0.7

y = 0.0012 * x + 0.0026
R = 1.0000
DL = 0.4022
BEC = 2.221

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0010	P	19.9
2	☐	1.000	1.168	12835.87	0.1337	P	2.0
3	☐	50.000	52.822	561801.92	6.0013	P	0.3
4	☐	125.000	131.276	1316945.44	14.9132	P	1.2
5	☐	250.000	266.100	2632129.70	30.2286	A	0.3
6	☐	500.000	522.188	5119294.13	59.3188	A	0.5
7	☐	1000.000	983.955	9802255.69	111.7732	A	0.7
8	☐			21522.99	0.2474	P	1.8

y = 0.1136 * x + 0.0010
R = 0.9995
DL = 0.005362
BEC = 0.008981

Weight: <None>
Min Conc: 0

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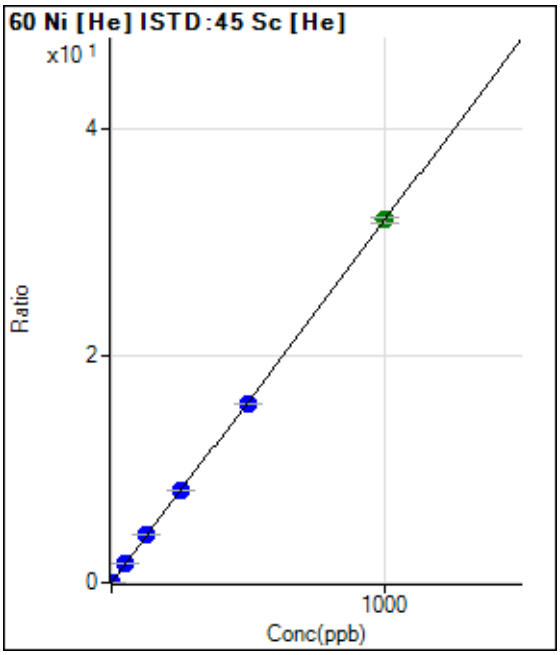
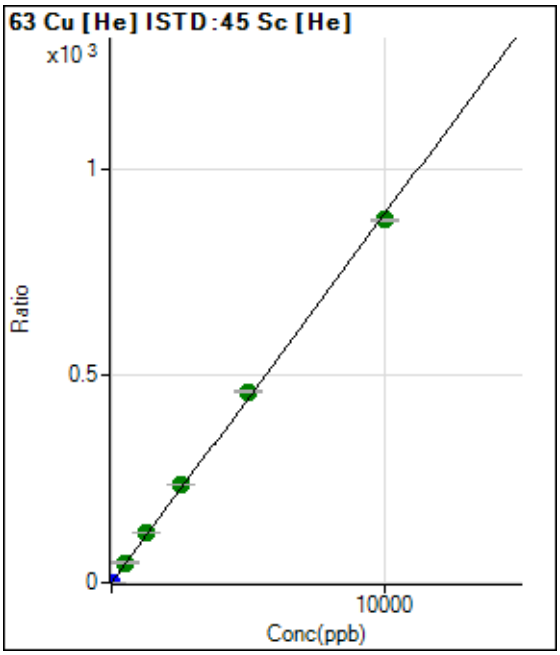


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	723.36	0.0075	P	4.3
2	☐	1.000	1.112	4136.19	0.0431	P	4.5
3	☐	50.000	52.948	159114.49	1.6997	P	0.5
4	☐	125.000	131.667	372269.53	4.2155	P	0.9
5	☐	250.000	255.273	711035.06	8.1659	P	0.4
6	☐	500.000	492.437	1358839.18	15.7454	P	0.5
7	☐	1000.000	1001.482	2807383.81	32.0141	A	1.6
8	☐			13450.87	0.1546	P	1.0

y = 0.0320 * x + 0.0075
R = 0.9999
DL = 0.03062
BEC = 0.2362

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1866.81	0.0195	P	4.0
2	☐	2.000	2.281	21379.49	0.2227	P	2.1
3	☐	500.000	546.880	4562767.15	48.7421	A	0.9
4	☐	1250.000	1355.460	10666081.58	120.7801	A	1.0
5	☐	2500.000	2674.412	20748772.47	238.2880	A	0.9
6	☐	5000.000	5190.049	39905856.07	462.4111	A	1.0
7	☐	10000.000	9845.846	76927964.41	877.2050	A	0.8
8	☐			20939.93	0.2407	P	1.5

y = 0.0891 * x + 0.0195
R = 0.9995
DL = 0.02605
BEC = 0.2186

Weight: <None>
Min Conc: 0

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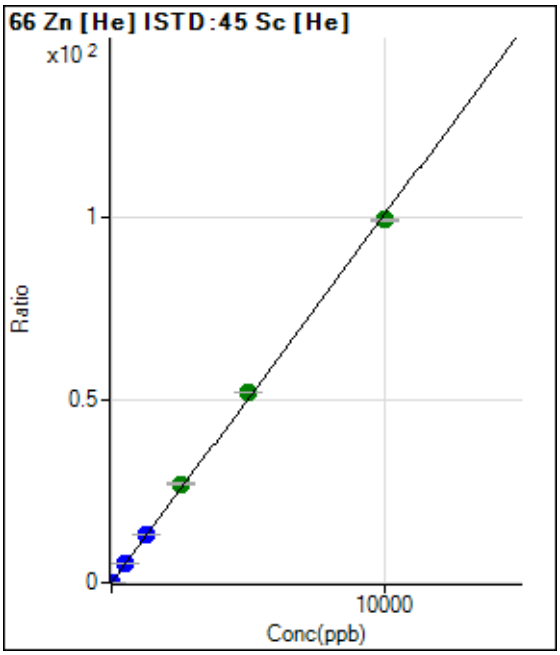
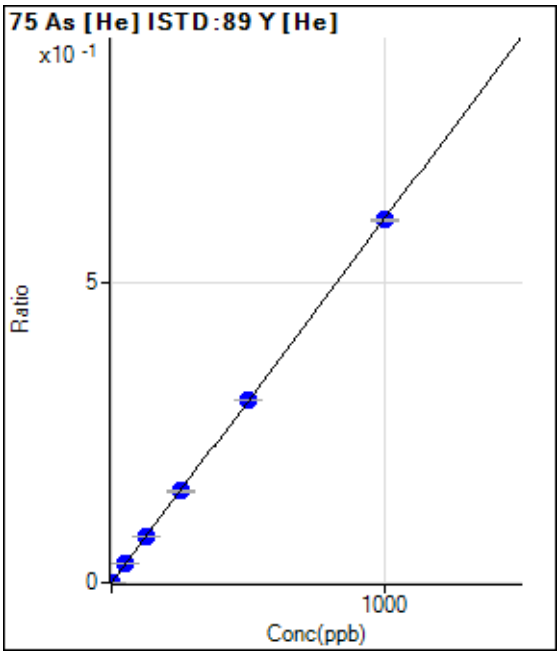


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1482.32	0.0155	P	5.7
2	☐	2.000	5.465	6769.44	0.0705	P	2.1
3	☐	500.000	517.311	489127.37	5.2250	P	0.2
4	☐	1250.000	1304.716	1161632.51	13.1544	P	1.1
5	☐	2500.000	2688.486	2358820.31	27.0894	A	0.5
6	☐	5000.000	5172.898	4496863.82	52.1083	A	0.8
7	☐	10000.000	9858.724	8708072.79	99.2962	A	0.6
8	☐			53275.32	0.6123	P	1.2

y = 0.0101 * x + 0.0155
R = 0.9996
DL = 0.2642
BEC = 1.536

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	26.1
2	☐	1.000	1.163	724.47	0.0007	P	11.2
3	☐	50.000	50.470	30129.96	0.0307	P	0.8
4	☐	125.000	125.943	73014.49	0.0766	P	1.0
5	☐	250.000	252.620	142517.38	0.1536	P	1.5
6	☐	500.000	503.302	280794.11	0.3059	P	0.6
7	☐	1000.000	997.553	548189.64	0.6063	P	0.4
8	☐			331.12	0.0004	P	14.2

y = 6.0780E-004 * x + 1.3293E-005
R = 1.0000
DL = 0.01713
BEC = 0.02187

Weight: <None>
Min Conc: 0

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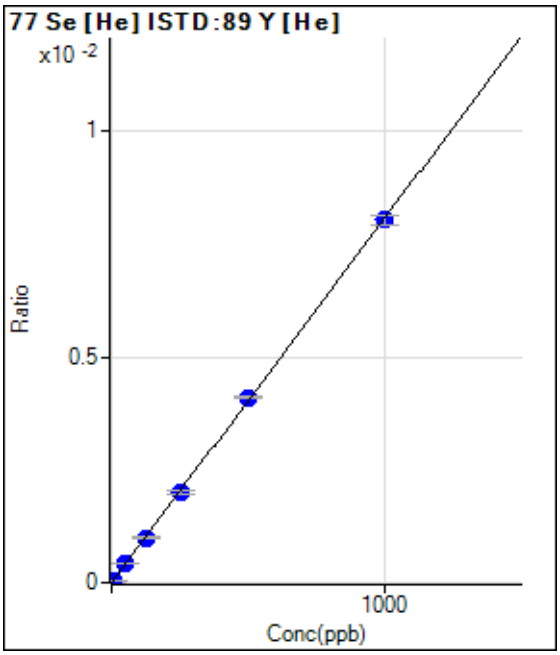
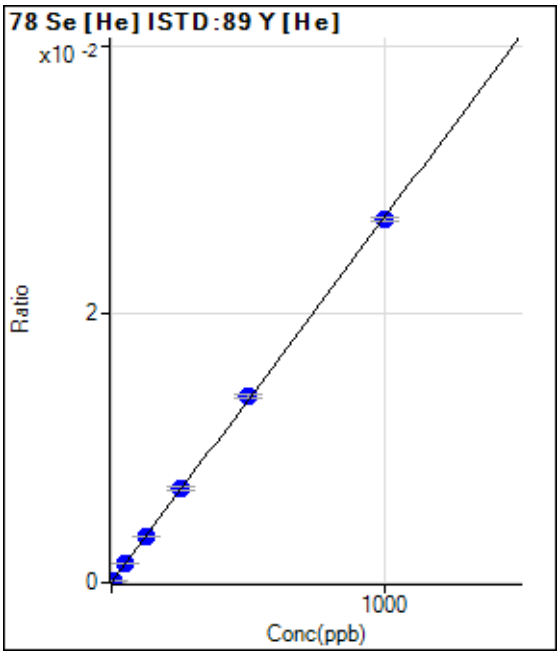


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.068	42.22	0.0000	P	16.4
3	☐	50.000	51.788	411.12	0.0004	P	4.3
4	☐	125.000	122.430	942.27	0.0010	P	5.4
5	☐	250.000	247.581	1853.47	0.0020	P	3.9
6	☐	500.000	509.285	3769.43	0.0041	P	2.0
7	☐	1000.000	996.194	7261.93	0.0080	P	2.6
8	☐			7.78	0.0000	P	65.5

y = 8.0621E-006 * x + 1.1152E-006
R = 0.9999
DL = 0.7188
BEC = 0.1383

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0000	P	49.0
2	☐	5.000	5.813	174.45	0.0002	P	9.8
3	☐	50.000	51.108	1378.97	0.0014	P	2.0
4	☐	125.000	126.221	3287.09	0.0034	P	2.4
5	☐	250.000	256.617	6488.22	0.0070	P	3.6
6	☐	500.000	510.173	12742.54	0.0139	P	1.6
7	☐	1000.000	993.047	24420.11	0.0270	P	1.0
8	☐			27.78	0.0000	P	38.3

y = 2.7183E-005 * x + 1.5435E-005
R = 0.9999
DL = 0.835
BEC = 0.5678

Weight: <None>
Min Conc: 0

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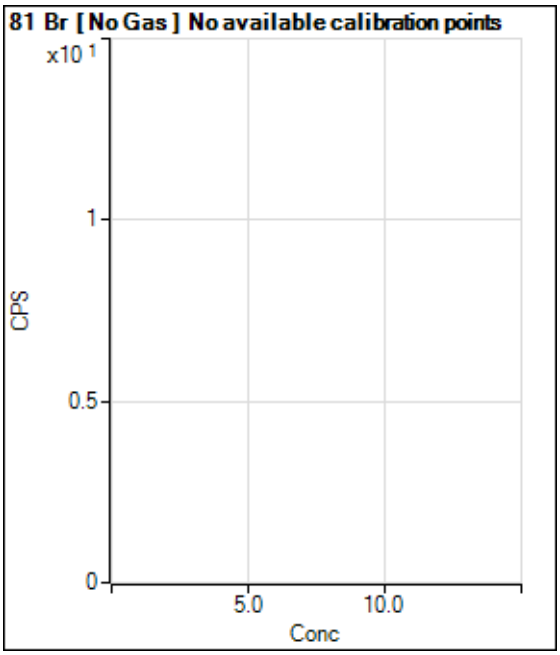
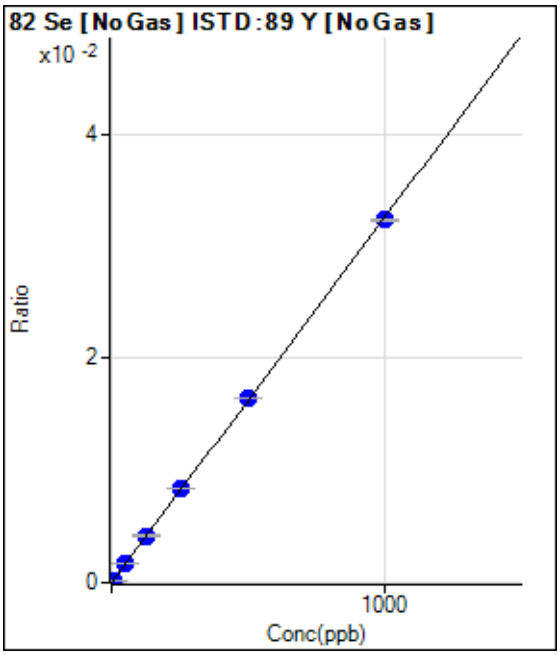


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27033.99		P	3.5
2	☐			26761.19		P	1.4
3	☐			26495.16		P	1.5
4	☐			26279.18		P	0.9
5	☐			25745.95		P	2.1
6	☐			25924.07		P	2.9
7	☐			25353.07		P	2.2
8	☐			23966.17		P	2.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	437.
2	☐	5.000	5.484	2212.46	0.0002	P	3.8
3	☐	50.000	52.046	20882.74	0.0017	P	2.5
4	☐	125.000	128.827	50493.81	0.0042	P	1.0
5	☐	250.000	258.479	99599.59	0.0084	P	1.8
6	☐	500.000	506.465	194122.04	0.0165	P	0.4
7	☐	1000.000	994.065	378158.52	0.0323	P	0.7
8	☐			338.91	0.0000	P	21.6

y = 3.2514E-005 * x + 9.4579E-007
R = 0.9999
DL = 0.382
BEC = 0.02909

Weight: <None>
Min Conc: 0

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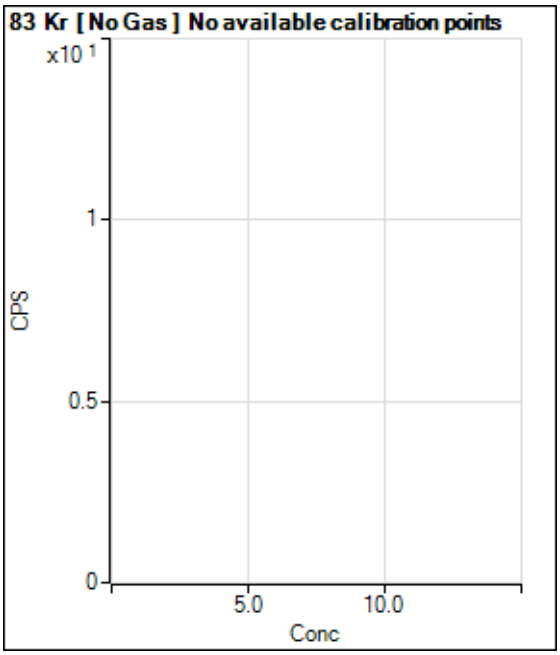
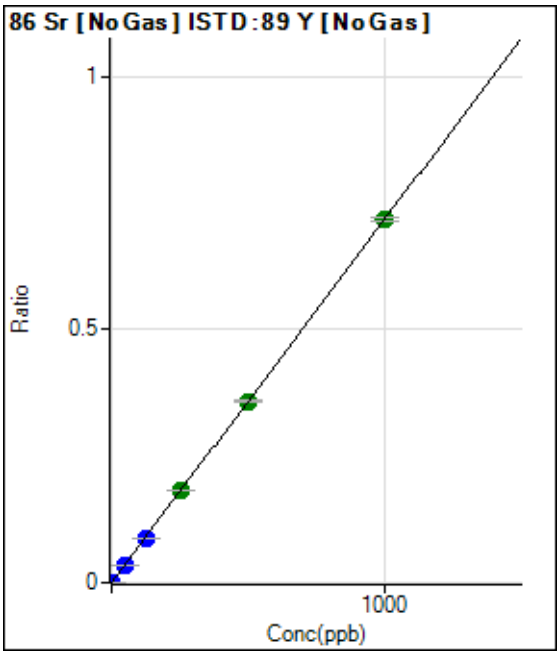


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			293.34		P	9.7
2	☐			284.45		P	13.7
3	☐			287.78		P	8.8
4	☐			304.45		P	10.2
5	☐			343.34		P	7.8
6	☐			275.56		P	15.8
7	☐			377.79		P	14.0
8	☐			331.12		P	4.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	512.24	0.0000	P	9.1
2	☐	1.000	1.035	9672.34	0.0008	P	2.0
3	☐	50.000	48.636	430631.55	0.0349	P	1.1
4	☐	125.000	121.095	1046944.17	0.0869	P	1.1
5	☐	250.000	254.441	2162511.86	0.1825	A	0.7
6	☐	500.000	500.069	4226932.99	0.3586	A	0.9
7	☐	1000.000	999.412	8383742.86	0.7166	A	1.0
8	☐			26859.18	0.0024	P	1.8

y = 7.1700E-004 * x + 4.1779E-005
R = 1.0000
DL = 0.01593
BEC = 0.05827

Weight: <None>
Min Conc: 0

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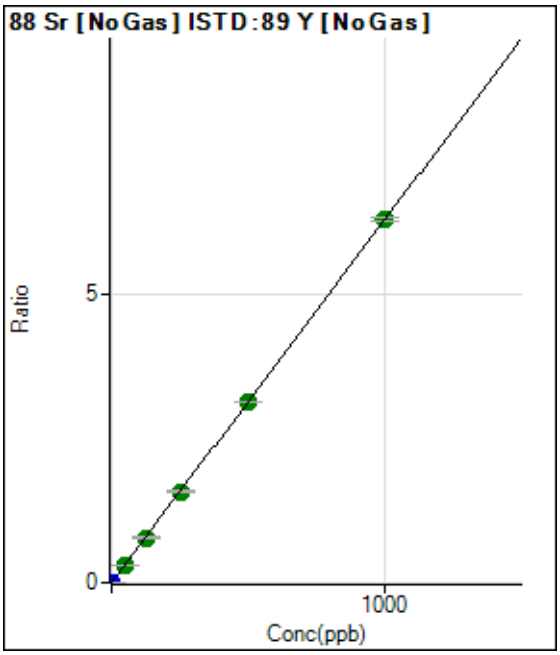
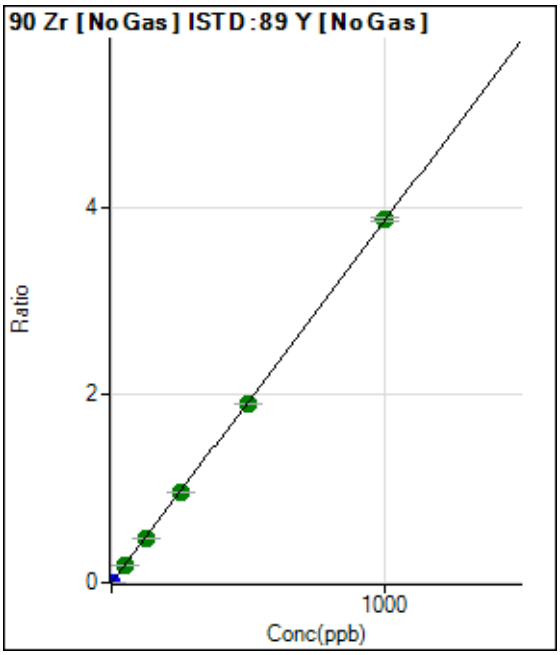


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	564.46	0.0000	P	9.6
2	☐	1.000	1.036	80843.43	0.0066	P	1.2
3	☐	50.000	50.161	3885655.15	0.3150	A	0.5
4	☐	125.000	124.369	9412283.75	0.7810	A	2.3
5	☐	250.000	251.497	18716826.25	1.5792	A	0.9
6	☐	500.000	498.312	36886393.62	3.1290	A	1.0
7	☐	1000.000	1000.540	73505632.80	6.2826	A	0.9
8	☐			230048.50	0.0204	P	0.8

y = 0.0063 * x + 4.5998E-005
R = 1.0000
DL = 0.002105
BEC = 0.007326

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	814.48	0.0001	P	1.9
2	☐	1.000	1.033	49935.68	0.0040	P	1.2
3	☐	50.000	49.968	2375930.00	0.1926	A	1.9
4	☐	125.000	122.605	5695254.99	0.4726	A	1.4
5	☐	250.000	249.262	11384533.02	0.9607	A	0.8
6	☐	500.000	494.243	22452631.89	1.9048	A	0.7
7	☐	1000.000	1003.364	45236918.77	3.8668	A	1.1
8	☐			20609.72	0.0018	P	1.8

y = 0.0039 * x + 6.6382E-005
R = 1.0000
DL = 0.001004
BEC = 0.01723

Weight: <None>
Min Conc: 0

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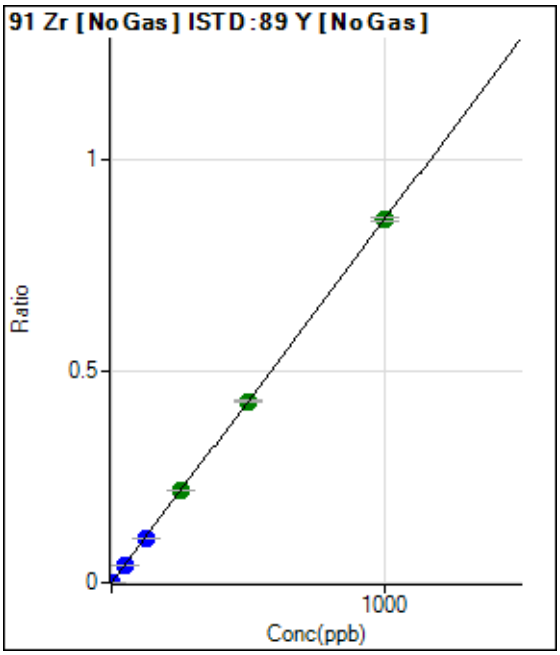
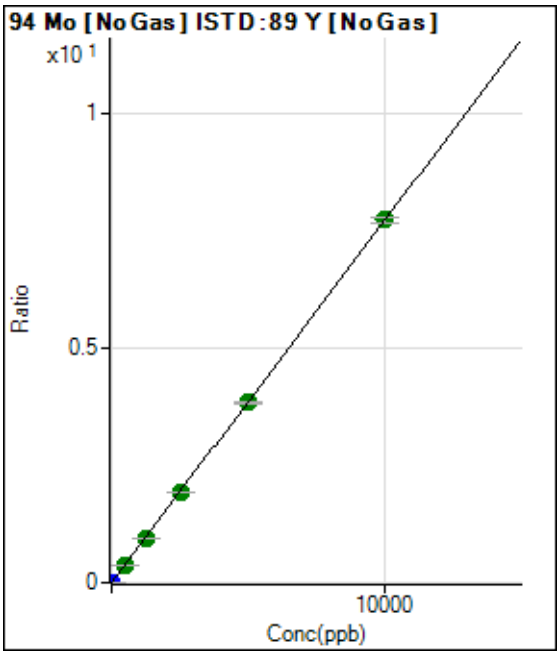


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0000	P	8.7
2	☐	1.000	1.024	10979.96	0.0009	P	1.3
3	☐	50.000	48.002	507081.42	0.0411	P	2.2
4	☐	125.000	120.703	1245829.92	0.1034	P	0.9
5	☐	250.000	255.230	2590155.57	0.2186	A	1.1
6	☐	500.000	500.022	5047013.33	0.4282	A	0.9
7	☐	1000.000	999.319	10010848.88	0.8557	A	0.9
8	☐			4574.13	0.0004	P	0.8

y = 8.5627E-004 * x + 1.2768E-005
R = 1.0000
DL = 0.003874
BEC = 0.01491

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	402.23	0.0000	P	6.2
2	☐	5.000	6.085	58415.21	0.0047	P	1.9
3	☐	500.000	491.018	4678553.02	0.3793	A	1.2
4	☐	1250.000	1228.044	11433836.49	0.9486	A	0.8
5	☐	2500.000	2499.680	22883007.44	1.9309	A	0.5
6	☐	5000.000	4966.153	45219938.77	3.8361	A	0.7
7	☐	10000.000	10020.196	90549914.21	7.7401	A	1.4
8	☐			17161.78	0.0015	P	1.5

y = 7.7245E-004 * x + 3.2764E-005
R = 1.0000
DL = 0.007922
BEC = 0.04242

Weight: <None>
Min Conc: 0

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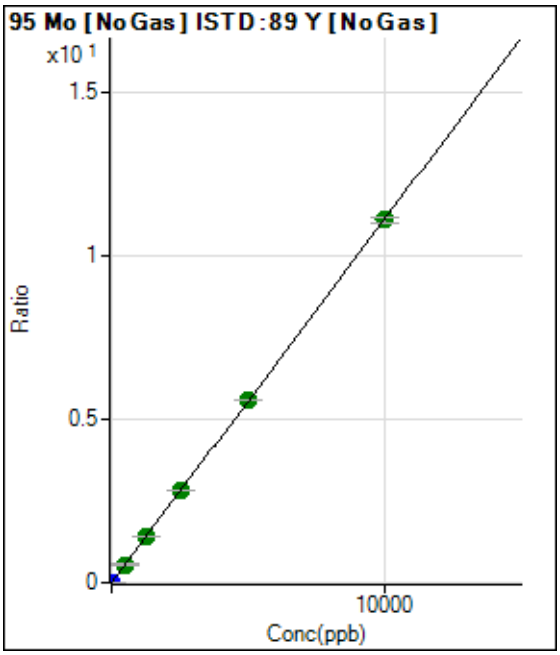
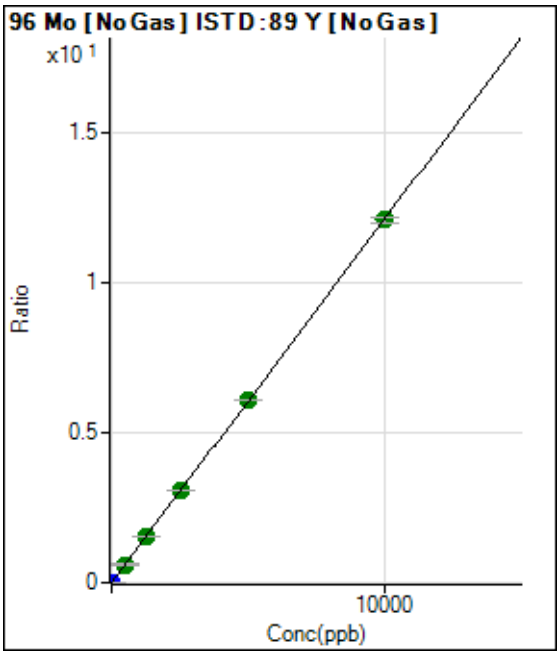


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0000	P	17.4
2	☐	5.000	5.166	70988.80	0.0058	P	1.8
3	☐	500.000	499.951	6842170.80	0.5548	A	1.5
4	☐	1250.000	1248.153	16692340.73	1.3849	A	0.2
5	☐	2500.000	2529.371	33259039.22	2.8065	A	0.9
6	☐	5000.000	5014.531	65587822.91	5.5640	A	0.4
7	☐	10000.000	9985.625	129617905.85	11.0798	A	1.4
8	☐			16558.84	0.0015	P	3.4

y = 0.0011 * x + 1.9833E-005
R = 1.0000
DL = 0.009342
BEC = 0.01787

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.34	0.0000	P	5.8
2	☐	5.000	5.278	79031.90	0.0064	P	1.4
3	☐	500.000	501.056	7471579.89	0.6058	A	2.5
4	☐	1250.000	1251.614	18239361.95	1.5133	A	0.7
5	☐	2500.000	2525.729	36191246.68	3.0538	A	0.7
6	☐	5000.000	5023.866	71602790.60	6.0743	A	0.8
7	☐	10000.000	9981.380	141190415.68	12.0683	A	1.3
8	☐			30072.65	0.0027	P	1.6

y = 0.0012 * x + 2.2266E-005
R = 1.0000
DL = 0.003179
BEC = 0.01842

Weight: <None>
Min Conc: 0

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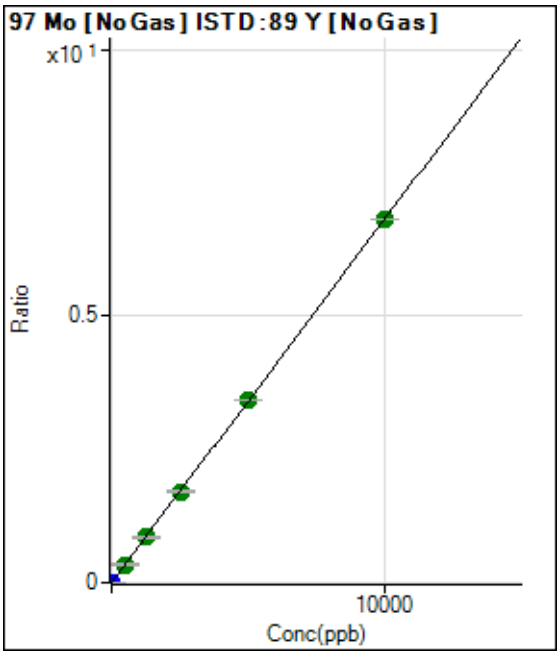
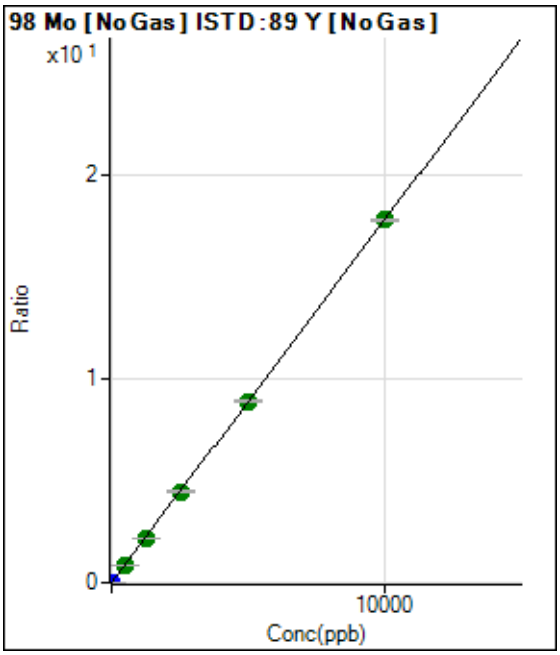


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0000	P	16.5
2	☐	5.000	5.216	44024.05	0.0036	P	1.2
3	☐	500.000	500.328	4206664.38	0.3411	A	3.2
4	☐	1250.000	1247.768	10252999.64	0.8507	A	1.4
5	☐	2500.000	2512.565	20301067.20	1.7130	A	0.9
6	☐	5000.000	5021.755	40358375.51	3.4237	A	0.7
7	☐	10000.000	9986.244	79654395.48	6.8084	A	0.1
8	☐			10072.62	0.0009	P	3.6

y = 6.8178E-004 * x + 1.0520E-005
R = 1.0000
DL = 0.007617
BEC = 0.01543

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	308.90	0.0000	P	4.0
2	☐	5.000	5.132	113072.00	0.0092	P	1.0
3	☐	500.000	493.835	10843106.44	0.8791	A	1.6
4	☐	1250.000	1236.609	26532186.55	2.2014	A	1.1
5	☐	2500.000	2505.588	52856901.99	4.4604	A	1.1
6	☐	5000.000	4992.481	104761511.77	8.8874	A	0.8
7	☐	10000.000	10004.345	208350056.89	17.8093	A	0.9
8	☐			24718.78	0.0022	P	4.2

y = 0.0018 * x + 2.5174E-005
R = 1.0000
DL = 0.00171
BEC = 0.01414

Weight: <None>
Min Conc: 0

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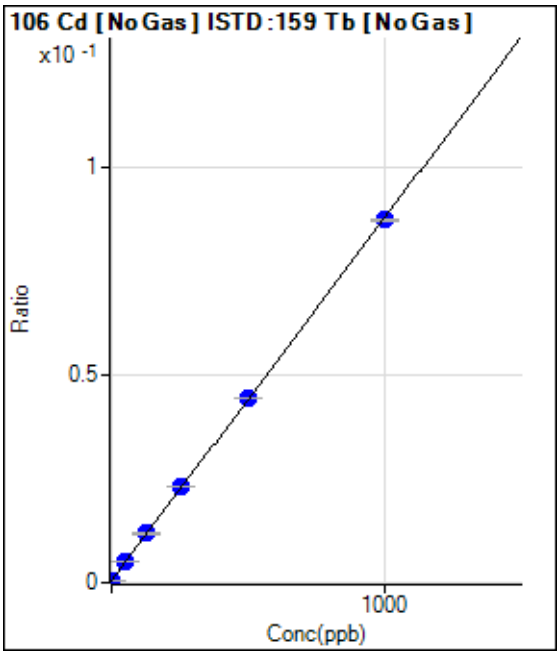
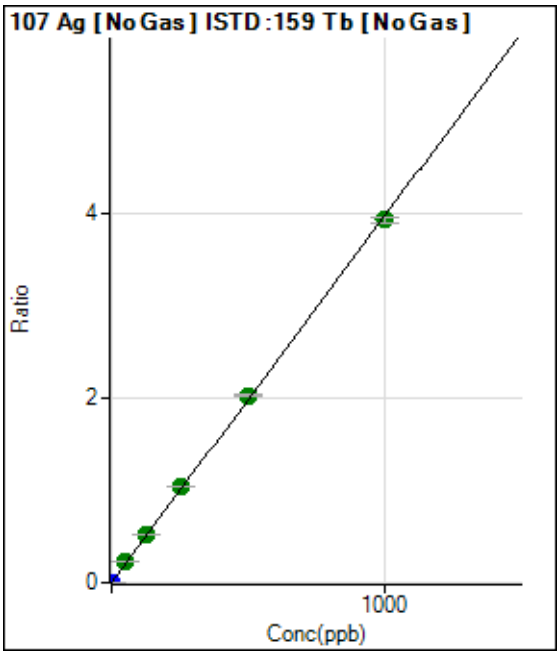


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4258.48	0.0005	P	2.6
2	☐	1.000	1.060	5015.41	0.0006	P	5.9
3	☐	50.000	52.955	41909.05	0.0051	P	1.4
4	☐	125.000	129.491	97125.17	0.0118	P	1.4
5	☐	250.000	258.131	186879.72	0.0231	P	0.8
6	☐	500.000	504.788	362139.70	0.0446	P	0.4
7	☐	1000.000	994.864	699669.29	0.0874	P	0.8
8	☐			4093.99	0.0005	P	0.4

y = 8.7360E-005 * x + 5.1977E-004
R = 0.9999
DL = 0.4559
BEC = 5.95

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	132.23	0.0000	P	27.6
2	☐	1.000	1.084	35365.23	0.0043	P	2.8
3	☐	50.000	55.928	1807847.44	0.2220	A	2.2
4	☐	125.000	132.074	4303369.14	0.5242	A	0.5
5	☐	250.000	263.612	8475892.51	1.0463	A	0.4
6	☐	500.000	510.721	16452589.48	2.0271	A	0.5
7	☐	1000.000	990.056	31444848.98	3.9296	A	1.3
8	☐			2940.35	0.0004	P	7.8

y = 0.0040 * x + 1.6153E-005
R = 0.9998
DL = 0.003364
BEC = 0.00407

Weight: <None>
Min Conc: 0

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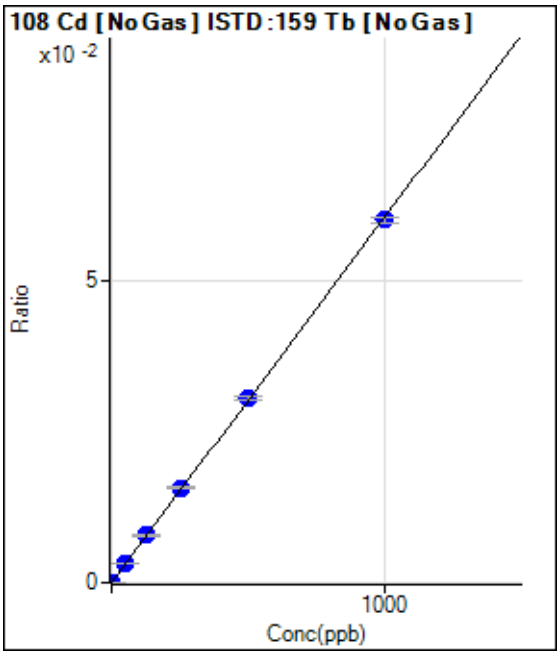
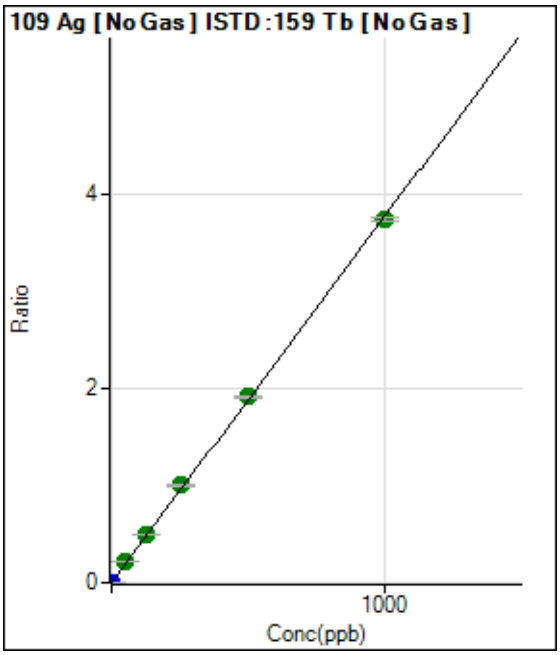


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	58.0
2	☐	1.000	0.996	503.35	0.0001	P	15.5
3	☐	50.000	53.696	26486.57	0.0033	P	1.1
4	☐	125.000	129.540	64392.83	0.0078	P	1.5
5	☐	250.000	259.863	127472.61	0.0157	P	0.7
6	☐	500.000	506.020	248674.50	0.0306	P	1.5
7	☐	1000.000	993.772	481521.89	0.0602	P	1.3
8	☐			171.11	0.0000	P	13.6

y = 6.0550E-005 * x + 1.0898E-006
R = 0.9999
DL = 0.0313
BEC = 0.018

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	44.8
2	☐	1.000	1.093	33739.05	0.0041	P	0.9
3	☐	50.000	55.643	1704529.56	0.2093	A	0.6
4	☐	125.000	132.610	4094398.31	0.4988	A	1.5
5	☐	250.000	265.638	8093721.96	0.9992	A	1.0
6	☐	500.000	507.251	15484296.43	1.9080	A	1.5
7	☐	1000.000	991.231	29838416.22	3.7284	A	1.2
8	☐			2823.65	0.0004	P	7.2

y = 0.0038 * x + 6.6228E-006
R = 0.9998
DL = 0.002367
BEC = 0.001761

Weight: <None>
Min Conc: 0

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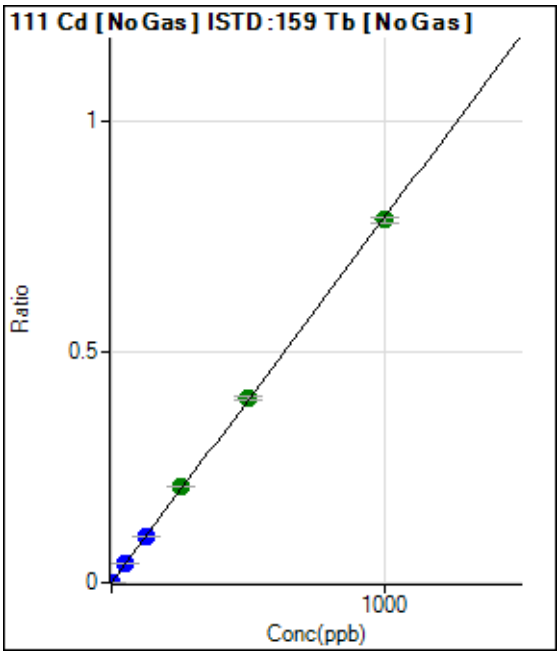
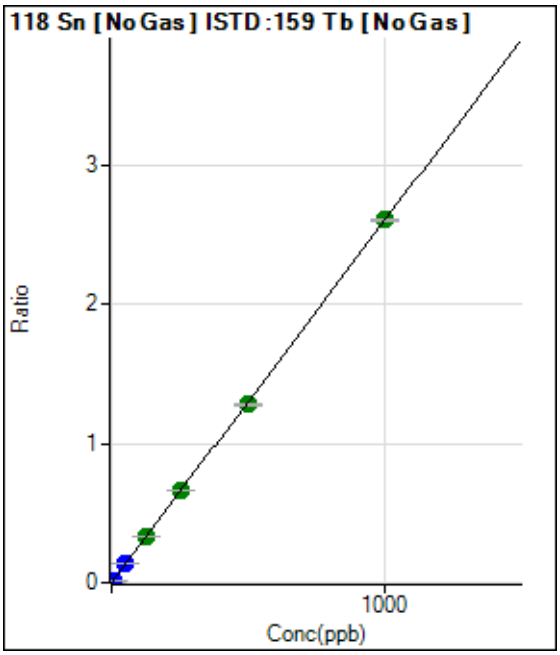


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3011.38	0.0004	P	2.2
2	☐	1.000	1.115	10238.11	0.0013	P	3.1
3	☐	50.000	51.755	336626.16	0.0413	P	0.6
4	☐	125.000	126.100	822361.53	0.1002	P	0.7
5	☐	250.000	264.327	1697883.74	0.2096	A	0.8
6	☐	500.000	505.456	3249953.89	0.4005	A	1.5
7	☐	1000.000	993.465	6295162.75	0.7867	A	1.8
8	☐			3686.06	0.0005	P	2.9

y = 7.9154E-004 * x + 3.6756E-004
R = 0.9999
DL = 0.03106
BEC = 0.4644

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3821.69	0.0005	P	3.9
2	☐	5.000	5.235	115276.64	0.0141	P	1.4
3	☐	50.000	50.909	1081634.74	0.1328	P	0.6
4	☐	125.000	127.496	2724508.26	0.3319	A	1.4
5	☐	250.000	254.528	5363782.98	0.6622	A	1.1
6	☐	500.000	491.916	10382514.71	1.2793	A	0.8
7	☐	1000.000	1002.551	20860527.05	2.6068	A	0.8
8	☐			6342.64	0.0008	P	4.8

y = 0.0026 * x + 4.6632E-004
R = 0.9999
DL = 0.0212
BEC = 0.1794

Weight: <None>
Min Conc: 0

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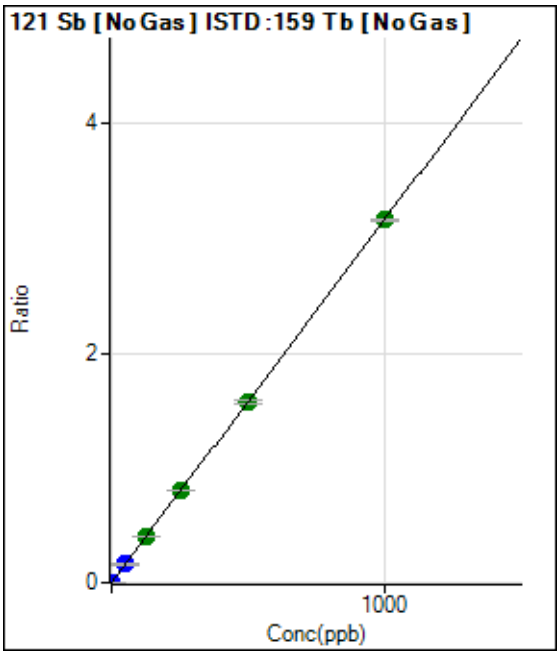
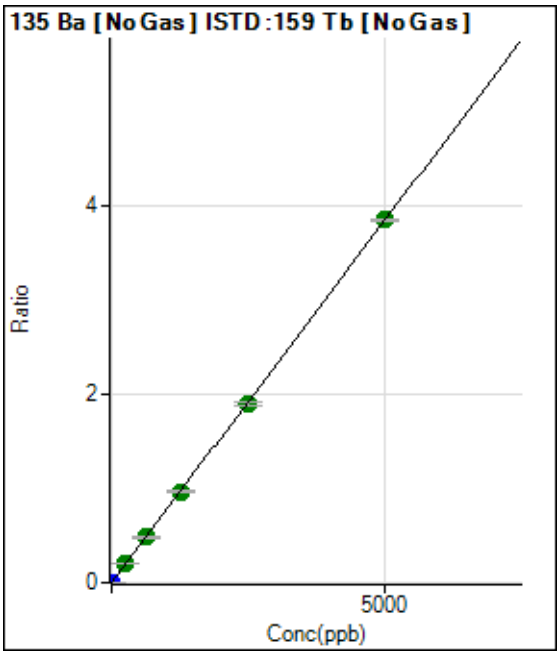


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0000	P	20.1
2	☐	2.000	2.102	54483.45	0.0067	P	1.6
3	☐	50.000	50.417	1298039.94	0.1594	P	0.6
4	☐	125.000	126.848	3291595.40	0.4010	A	0.7
5	☐	250.000	254.409	6514502.82	0.8042	A	1.2
6	☐	500.000	497.905	12772876.48	1.5739	A	2.0
7	☐	1000.000	999.693	25290589.07	3.1601	A	0.9
8	☐			13359.95	0.0017	P	3.5

y = 0.0032 * x + 7.3296E-006
R = 1.0000
DL = 0.001396
BEC = 0.002319

Weight: <None>
Min Conc: 0



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1	☐	0.000	0.000	136.67	0.0000	P	21.8
2	☐	10.000	10.408	65450.39	0.0080	P	1.5
3	☐	250.000	259.061	1616943.66	0.1985	A	2.2
4	☐	625.000	626.828	3943167.72	0.4804	A	1.5
5	☐	1250.000	1261.926	7834024.88	0.9671	A	0.6
6	☐	2500.000	2464.104	15325024.77	1.8884	A	1.8
7	☐	5000.000	5014.284	30751443.43	3.8427	A	0.3
8	☐			11933.13	0.0016	P	1.3

y = 7.6634E-004 * x + 1.6707E-005
R = 1.0000
DL = 0.01428
BEC = 0.0218

Weight: <None>
Min Conc: 0

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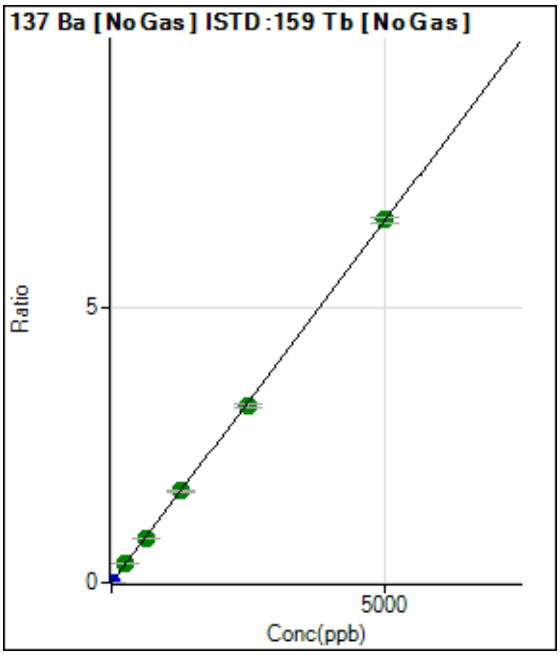
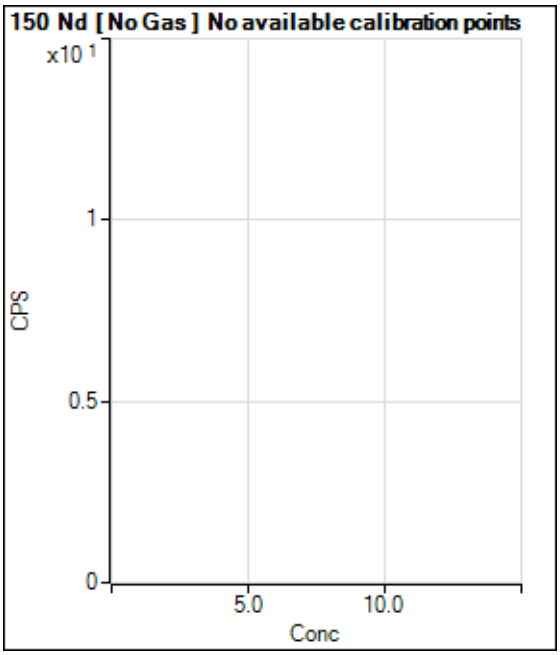


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244.45	0.0000	P	10.6
2	☐	10.000	10.481	113286.92	0.0138	P	0.8
3	☐	250.000	257.718	2764367.63	0.3394	A	1.3
4	☐	625.000	617.596	6677186.08	0.8134	A	0.7
5	☐	1250.000	1265.930	13506337.85	1.6673	A	0.6
6	☐	2500.000	2457.460	26265571.55	3.2366	A	2.1
7	☐	5000.000	5017.826	52879976.99	6.6086	A	1.6
8	☐			20643.60	0.0027	P	1.9

y = 0.0013 * x + 2.9824E-005
R = 0.9999
DL = 0.007189
BEC = 0.02265

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15.56		P	98.9
2	☐			20.00		P	76.4
3	☐			111.11		P	20.0
4	☐			282.23		P	3.4
5	☐			534.46		P	2.6
6	☐			1035.61		P	6.5
7	☐			1960.17		P	2.6
8	☐			465.57		P	5.0

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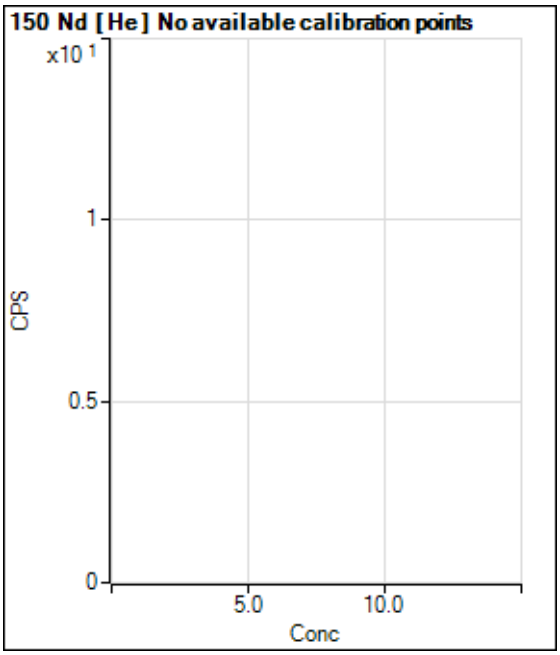
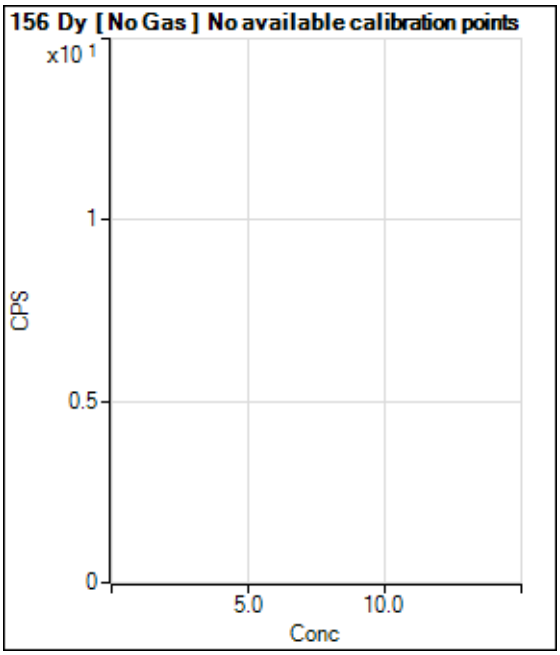


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	0.0
2	☐			1.11		P	173.
3	☐			8.89		P	108.
4	☐			12.22		P	15.7
5	☐			25.55		P	27.1
6	☐			44.44		P	18.9
7	☐			86.67		P	41.6
8	☐			133.34		P	10.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15.56		P	53.9
2	☐			23.33		P	62.3
3	☐			45.55		P	29.6
4	☐			82.22		P	28.8
5	☐			145.56		P	1.3
6	☐			241.12		P	14.8
7	☐			541.13		P	5.8
8	☐			883.37		P	3.4

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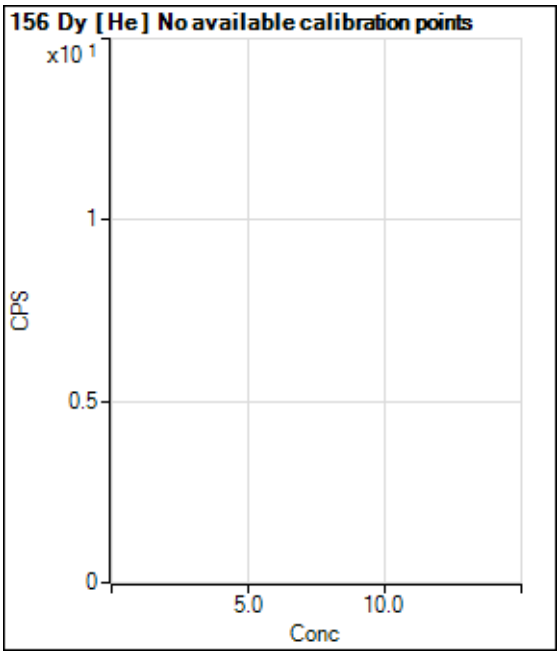

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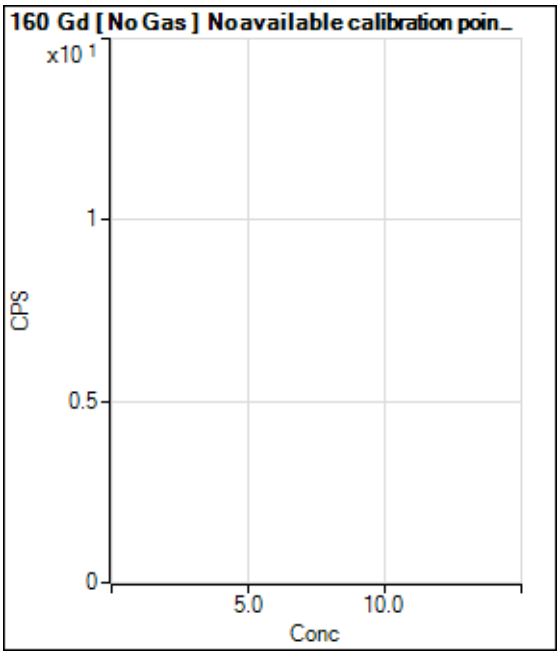
1	☐			2.22		P	86.6
2	☐			6.66		P	86.6
3	☐			10.00		P	33.3
4	☐			13.33		P	50.0
5	☐			26.67		P	37.5
6	☐			62.22		P	20.3
7	☐			77.78		P	17.3
8	☐			303.34		P	4.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			81.11		P	24.8
2	☐			82.22		P	10.2
3	☐			84.44		P	29.6
4	☐			81.11		P	10.3
5	☐			122.22		P	14.0
6	☐			157.78		P	2.4
7	☐			287.79		P	15.1
8	☐			821.15		P	4.2

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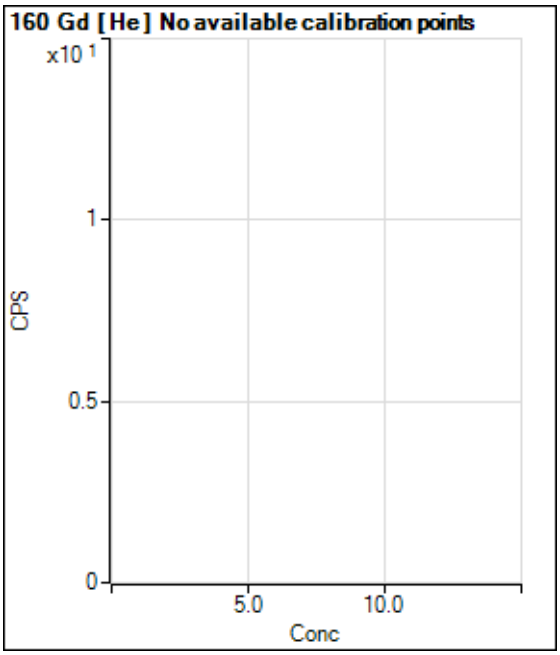
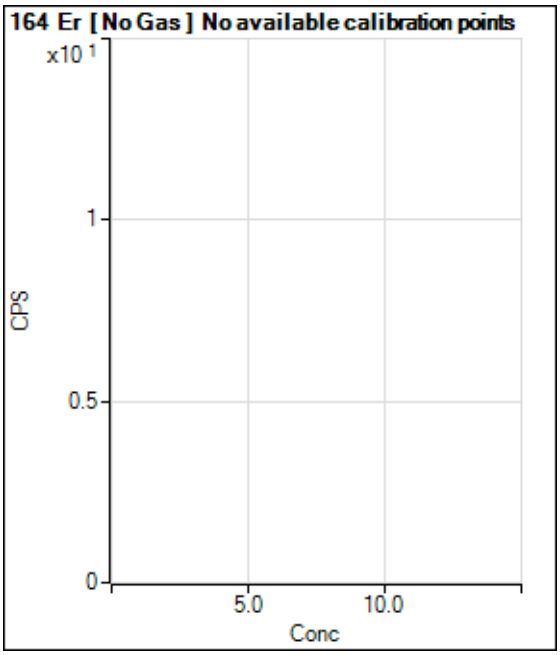


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.78		P	49.5
2	☐			24.44		P	39.4
3	☐			32.22		P	21.5
4	☐			27.78		P	36.7
5	☐			28.89		P	48.0
6	☐			56.67		P	20.4
7	☐			83.33		P	28.0
8	☐			363.34		P	6.6



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1	☐			64.44		P	29.4
2	☐			50.00		P	48.1
3	☐			71.11		P	17.7
4	☐			73.33		P	27.6
5	☐			133.34		P	25.0
6	☐			191.11		P	13.2
7	☐			296.67		P	8.8
8	☐			1008.94		P	6.0

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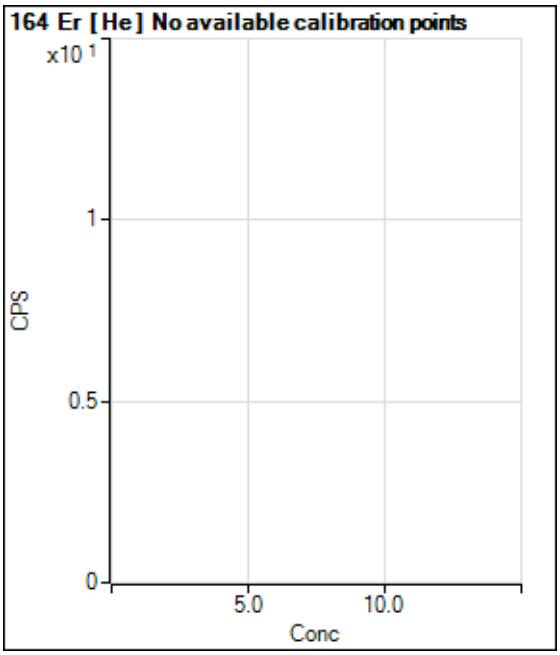

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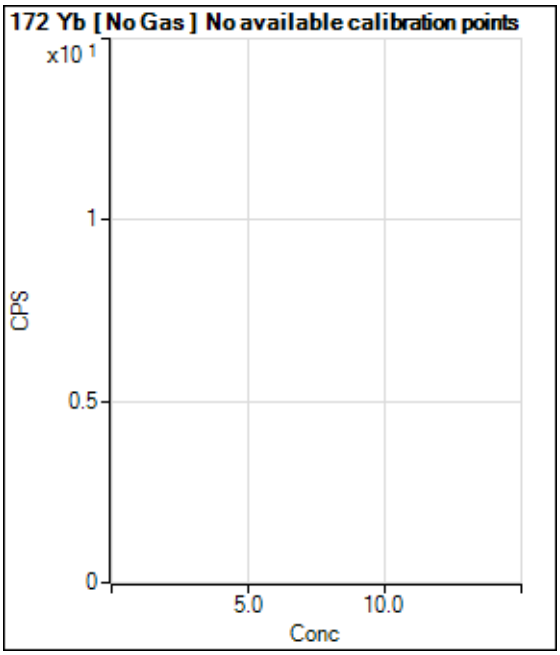
1	☐			27.78		P	18.3
2	☐			17.78		P	10.8
3	☐			27.78		P	30.2
4	☐			33.34		P	17.3
5	☐			35.56		P	23.6
6	☐			63.33		P	43.1
7	☐			125.56		P	15.6
8	☐			430.01		P	11.9



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1	☐			50.00		P	41.6
2	☐			40.00		P	74.1
3	☐			74.44		P	6.8
4	☐			78.89		P	25.8
5	☐			131.11		P	6.4
6	☐			200.01		P	7.6
7	☐			370.01		P	7.9
8	☐			1680.12		P	1.7

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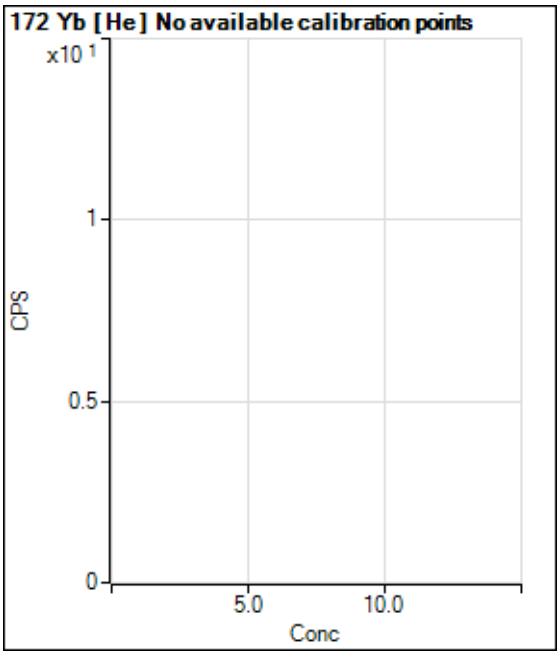
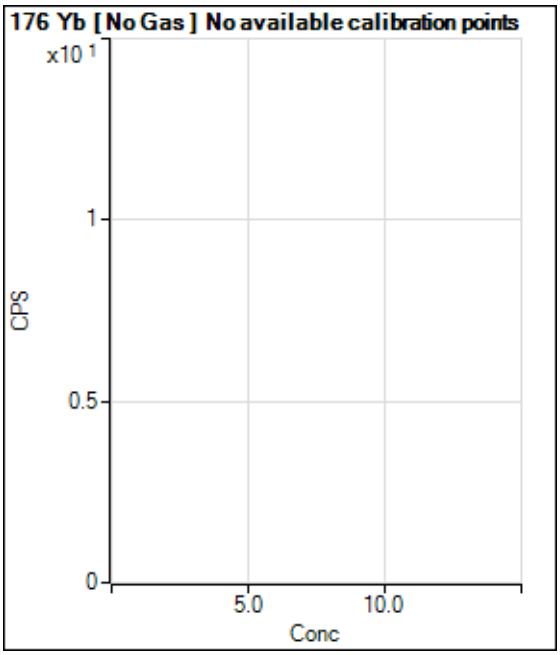


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	27.0
2	☐			20.00		P	60.1
3	☐			25.55		P	15.1
4	☐			54.44		P	36.9
5	☐			57.78		P	14.5
6	☐			108.89		P	15.7
7	☐			190.00		P	14.4
8	☐			778.92		P	8.1



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1	☐			1128.95		P	3.6
2	☐			1103.39		P	8.7
3	☐			6412.74		P	3.5
4	☐			14473.57		P	0.8
5	☐			27927.37		P	1.1
6	☐			54717.16		P	0.9
7	☐			108071.22		P	1.5
8	☐			1986.84		P	2.0

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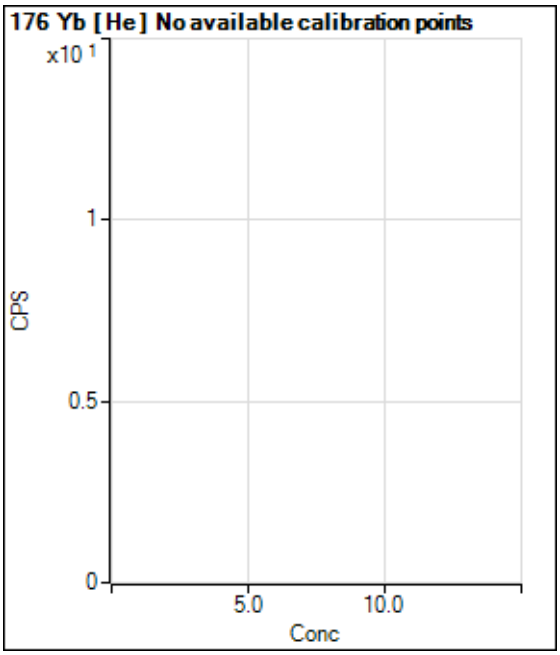

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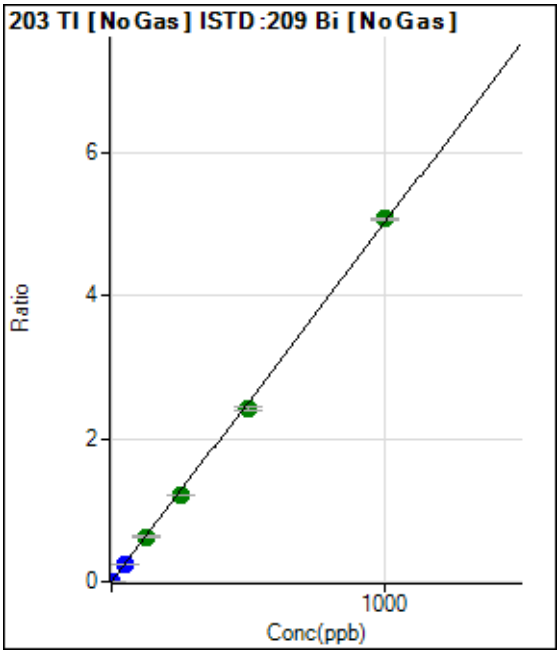
1	☐			348.90		P	2.2
2	☐			332.23		P	11.6
3	☐			2528.05		P	3.8
4	☐			5633.47		P	2.3
5	☐			11321.60		P	0.7
6	☐			21923.79		P	1.0
7	☐			43324.18		P	1.3
8	☐			741.14		P	7.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0000	P	15.8
2	☐	1.000	0.980	23828.52	0.0050	P	1.0
3	☐	50.000	47.195	1136293.60	0.2372	P	0.9
4	☐	125.000	124.870	2993094.30	0.6274	A	2.0
5	☐	250.000	241.813	5755520.54	1.2150	A	0.7
6	☐	500.000	481.877	11414823.16	2.4212	A	2.3
7	☐	1000.000	1011.265	22498381.61	5.0810	A	0.8
8	☐			1669.02	0.0004	P	13.8

y = 0.0050 * x + 3.1100E-005
R = 0.9997
DL = 0.002936
BEC = 0.00619

Weight: <None>
Min Conc: 0

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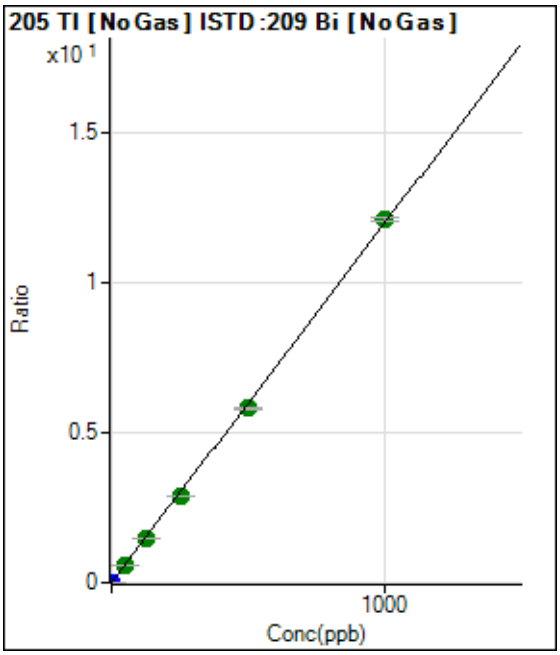
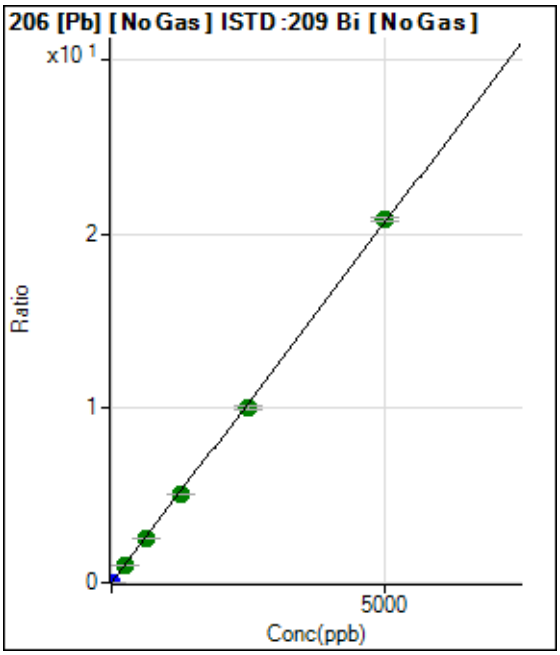


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	334.45	0.0001	P	7.4
2	☐	1.000	0.998	57735.68	0.0120	P	1.1
3	☐	50.000	49.611	2844948.64	0.5938	A	0.7
4	☐	125.000	122.150	6973431.84	1.4618	A	0.8
5	☐	250.000	241.751	13704708.40	2.8930	A	0.1
6	☐	500.000	484.726	27349329.87	5.8006	A	1.7
7	☐	1000.000	1010.075	53521736.98	12.0873	A	1.0
8	☐			3797.26	0.0010	P	14.4

y = 0.0120 * x + 6.9414E-005
R = 0.9998
DL = 0.001287
BEC = 0.005801

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	817.82	0.0002	P	4.6
2	☐	1.000	0.974	20152.44	0.0042	P	2.3
3	☐	250.000	248.447	4915983.82	1.0260	A	1.0
4	☐	625.000	614.260	12100268.43	2.5365	A	2.1
5	☐	1250.000	1223.578	23934797.42	5.0525	A	0.6
6	☐	2500.000	2429.744	47301899.30	10.0329	A	2.0
7	☐	5000.000	5043.154	92205643.07	20.8240	A	1.0
8	☐			95036.53	0.0240	P	0.3

y = 0.0041 * x + 1.6976E-004
R = 0.9998
DL = 0.005684
BEC = 0.04111

Weight: <None>
Min Conc: 0

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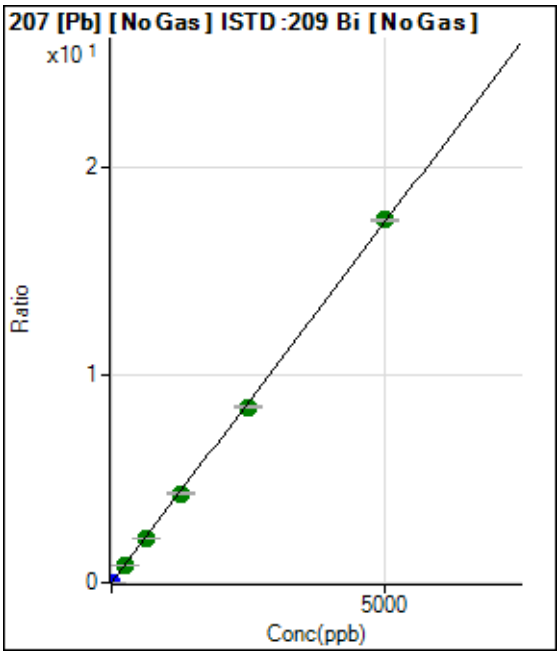
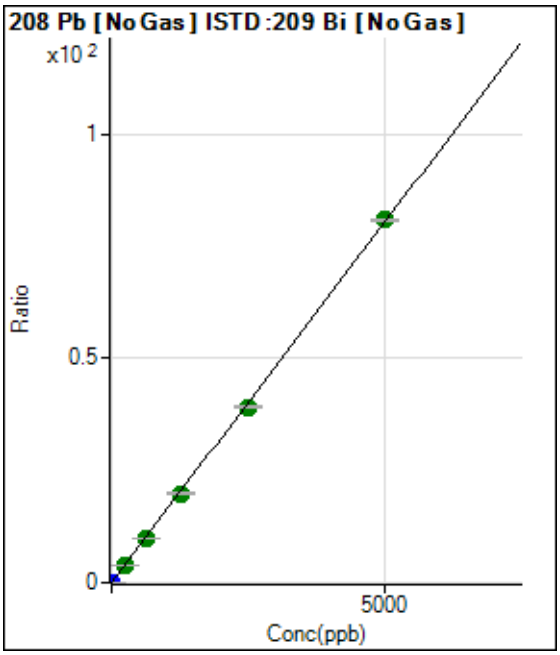


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	683.36	0.0001	P	12.5
2	☐	1.000	1.000	17330.63	0.0036	P	0.5
3	☐	250.000	249.131	4135096.85	0.8630	A	0.3
4	☐	625.000	613.599	10138265.40	2.1252	A	1.9
5	☐	1250.000	1237.640	20304832.75	4.2865	A	1.1
6	☐	2500.000	2437.617	39808471.35	8.4424	A	1.5
7	☐	5000.000	5035.750	77230880.51	17.4406	A	0.5
8	☐			80949.72	0.0204	P	1.6

y = 0.0035 * x + 1.4175E-004
R = 0.9999
DL = 0.01532
BEC = 0.04093

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3317.99	0.0007	P	4.1
2	☐	1.000	0.984	79262.69	0.0165	P	0.8
3	☐	250.000	247.778	19065397.11	3.9792	A	1.1
4	☐	625.000	611.232	46822122.91	9.8151	A	1.1
5	☐	1250.000	1237.613	94135249.43	19.8727	A	1.1
6	☐	2500.000	2440.774	184793506.97	39.1915	A	1.6
7	☐	5000.000	5034.541	357963680.78	80.8388	A	0.8
8	☐			373194.52	0.0942	P	0.6

y = 0.0161 * x + 6.8854E-004
R = 0.9999
DL = 0.005224
BEC = 0.04288

Weight: <None>
Min Conc: 0

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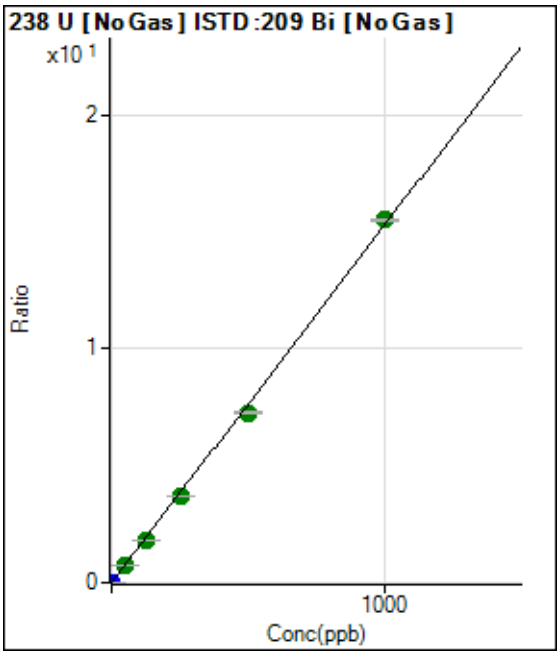
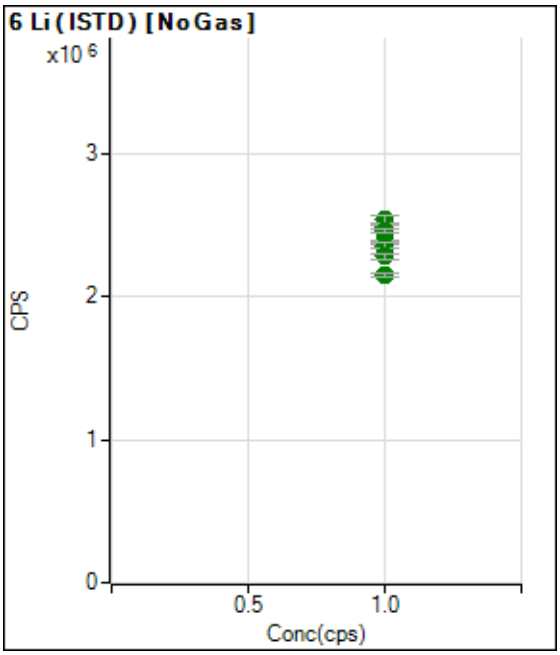


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	356.68	0.0001	P	3.0
2	☐	1.000	0.967	71289.69	0.0148	P	1.8
3	☐	50.000	47.799	3496869.36	0.7298	A	1.5
4	☐	125.000	116.405	8477872.31	1.7771	A	0.8
5	☐	250.000	242.350	17526306.40	3.6999	A	1.1
6	☐	500.000	476.014	34267891.43	7.2671	A	1.8
7	☐	1000.000	1015.090	68620514.53	15.4968	A	0.8
8	☐			2721.44	0.0007	P	9.4

y = 0.0153 * x + 7.4021E-005
R = 0.9995
DL = 0.000437
BEC = 0.004849

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2438232.31		A	0.1
2	☐	1.000		2480985.12		A	1.3
3	☐	1.000		2532588.98		A	2.0
4	☐	1.000		2457704.59		A	1.0
5	☐	1.000		2375057.78		A	0.8
6	☐	1.000		2354361.26		A	1.4
7	☐	1.000		2275811.25		A	1.7
8	☐	1.000		2151548.82		A	1.3

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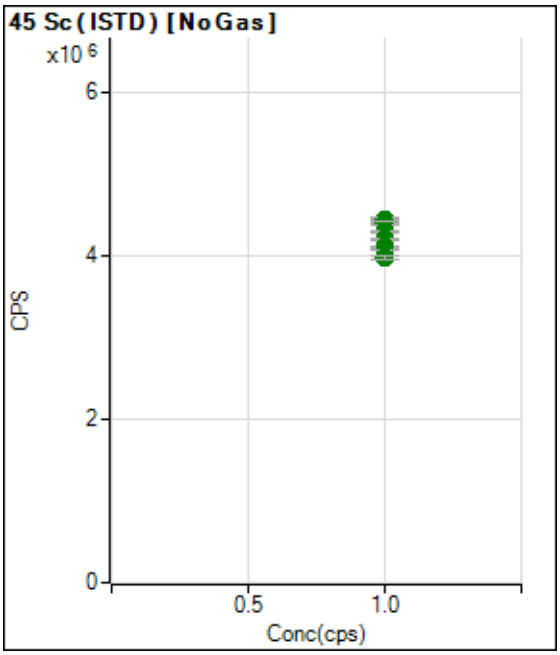

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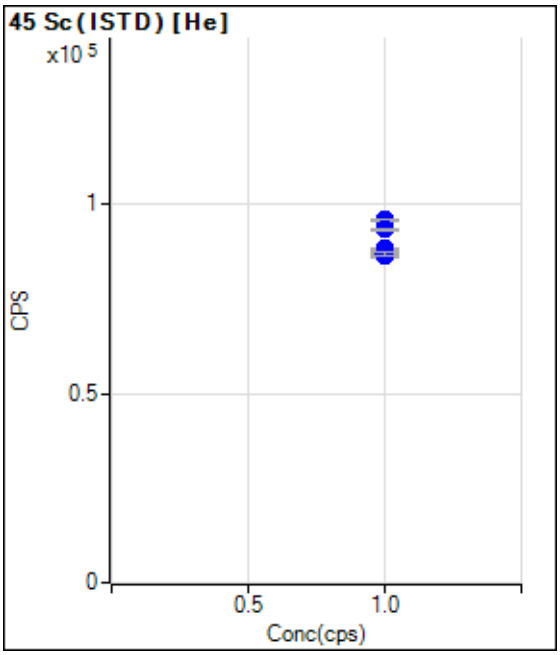
1	☐	1.000		4416447.54		A	1.3
2	☐	1.000		4437990.77		A	1.0
3	☐	1.000		4394038.75		A	0.8
4	☐	1.000		4299168.79		A	0.4
5	☐	1.000		4202834.52		A	0.6
6	☐	1.000		4105049.97		A	0.8
7	☐	1.000		4069294.25		A	0.5
8	☐	1.000		3979607.75		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		95834.34		P	0.3
2	☐	1.000		96011.25		P	0.5
3	☐	1.000		93613.25		P	0.5
4	☐	1.000		88313.45		P	0.9
5	☐	1.000		87074.91		P	0.4
6	☐	1.000		86300.12		P	0.4
7	☐	1.000		87700.80		P	0.9
8	☐	1.000		87003.39		P	0.8

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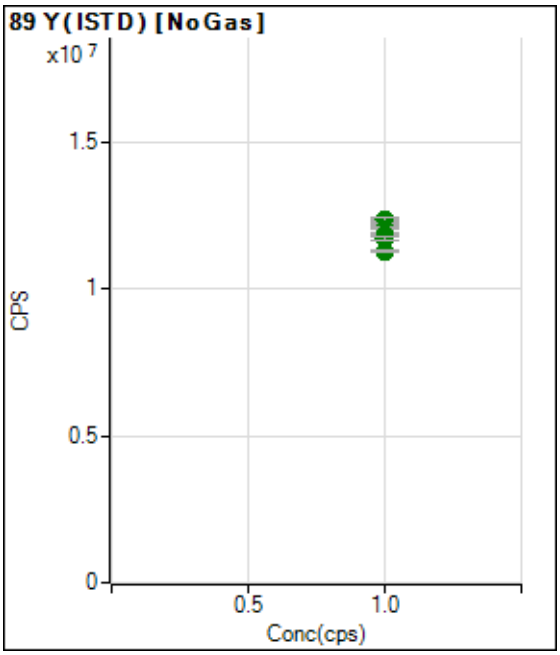
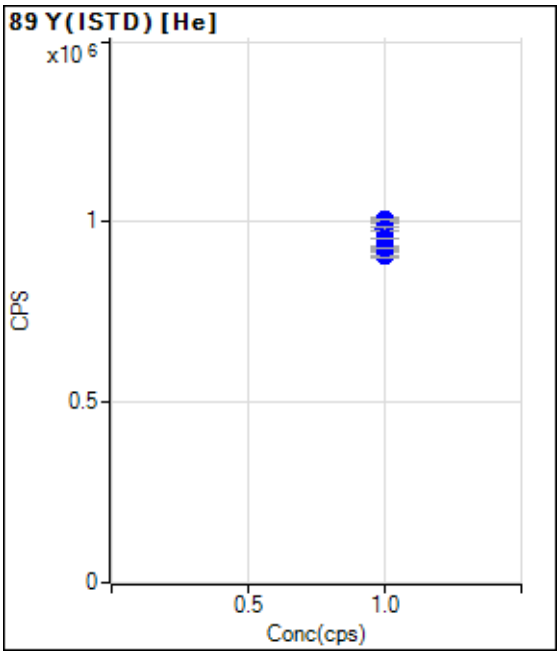


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12271853.15		A	1.5
2	☐	1.000		12342734.40		A	0.4
3	☐	1.000		12335333.29		A	1.3
4	☐	1.000		12052927.04		A	0.8
5	☐	1.000		11851221.07		A	1.0
6	☐	1.000		11788042.60		A	0.7
7	☐	1.000		11699518.99		A	0.9
8	☐	1.000		11272170.94		A	0.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1005162.72		P	1.3
2	☐	1.000		1005859.73		P	0.4
3	☐	1.000		981798.09		P	1.1
4	☐	1.000		953677.07		P	0.4
5	☐	1.000		928164.30		P	0.5
6	☐	1.000		917869.60		P	0.6
7	☐	1.000		904134.99		P	0.5
8	☐	1.000		928225.60		P	0.2

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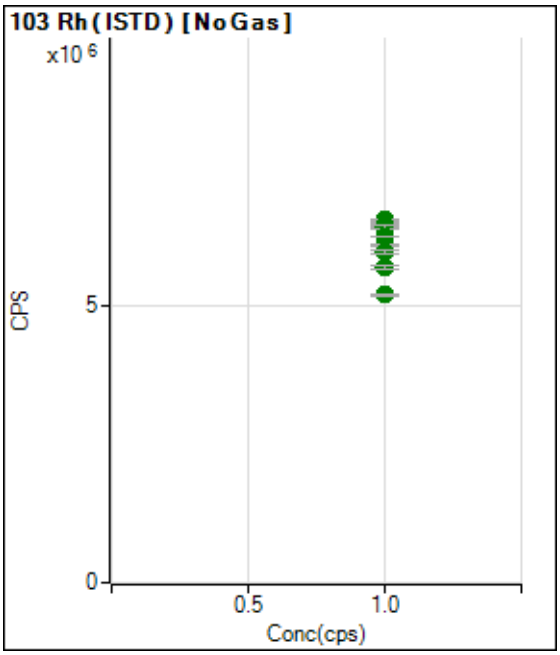
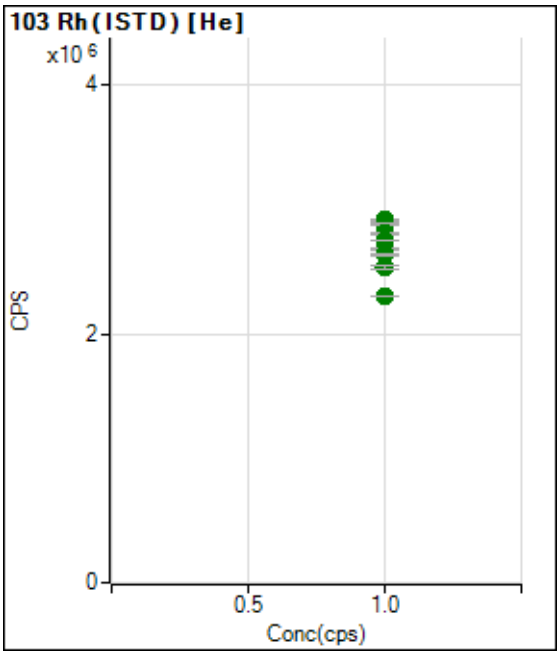
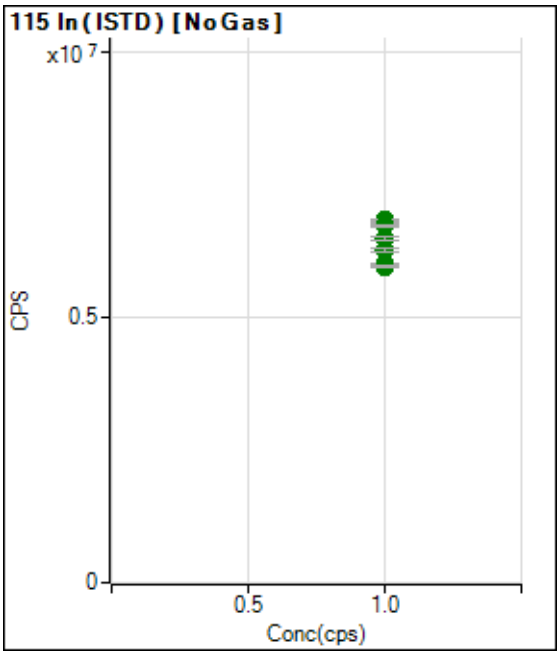


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6544194.21		A	0.4
2	☐	1.000		6447966.50		A	0.8
3	☐	1.000		6417559.00		A	1.2
4	☐	1.000		6245842.27		A	0.4
5	☐	1.000		6079843.24		A	0.7
6	☐	1.000		5972289.98		A	0.9
7	☐	1.000		5696466.93		A	1.1
8	☐	1.000		5194333.85		A	0.7

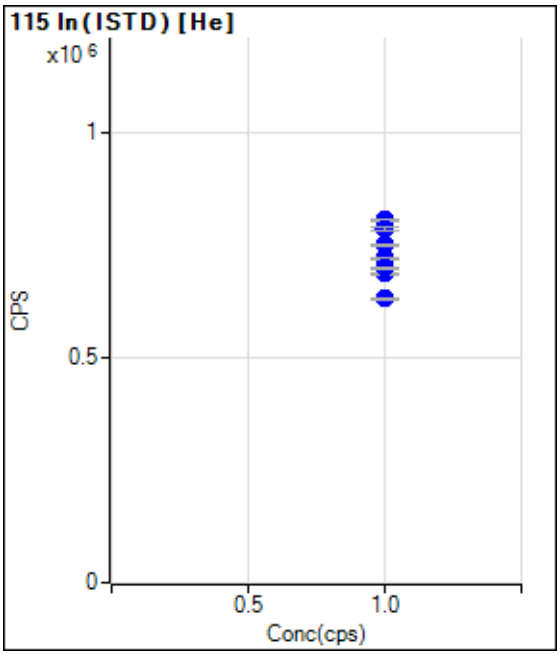


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2917466.66		A	0.6
2	☐	1.000		2886364.23		A	0.8
3	☐	1.000		2807344.92		A	0.8
4	☐	1.000		2756335.90		A	0.3
5	☐	1.000		2680653.82		A	0.8
6	☐	1.000		2637841.94		A	0.8
7	☐	1.000		2532270.83		A	1.3
8	☐	1.000		2302953.68		A	0.3

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

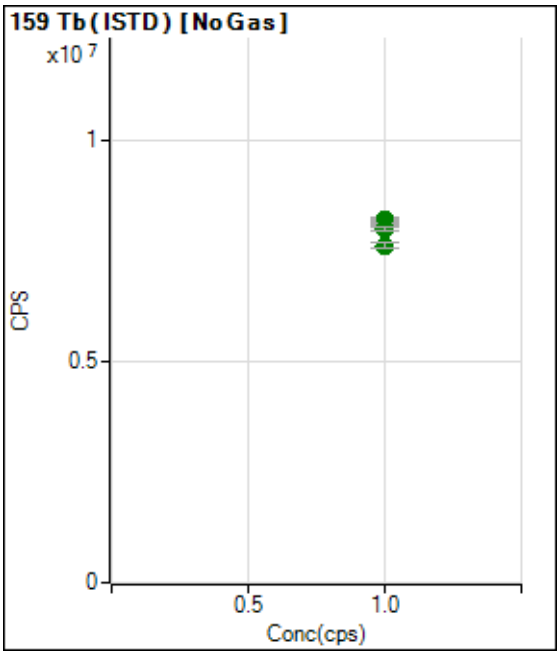


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6816040.31		A	0.9
2	☐	1.000		6778150.29		A	0.5
3	☐	1.000		6834320.77		A	0.2
4	☐	1.000		6728901.06		A	0.5
5	☐	1.000		6483529.54		A	1.0
6	☐	1.000		6271079.33		A	1.3
7	☐	1.000		6007644.06		A	0.2
8	☐	1.000		5946134.40		A	0.8

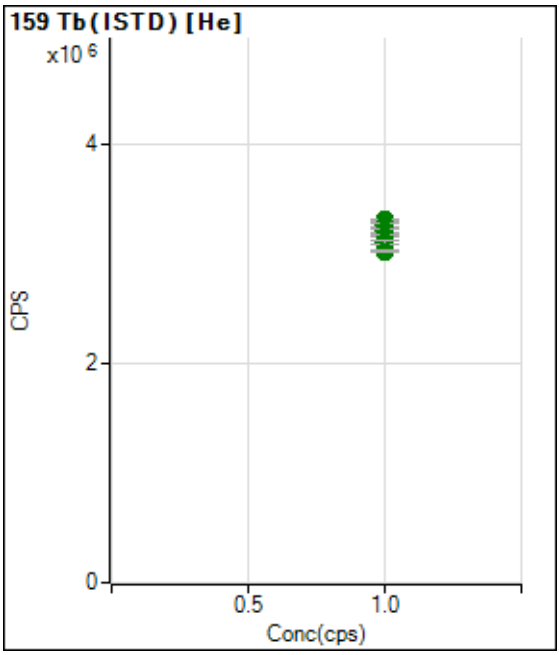


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		804672.08		P	0.7
2	☐	1.000		806663.45		P	0.7
3	☐	1.000		785896.86		P	0.9
4	☐	1.000		751897.39		P	0.4
5	☐	1.000		721217.96		P	0.3
6	☐	1.000		687138.48		P	0.6
7	☐	1.000		631491.59		P	0.5
8	☐	1.000		700456.15		P	0.5

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

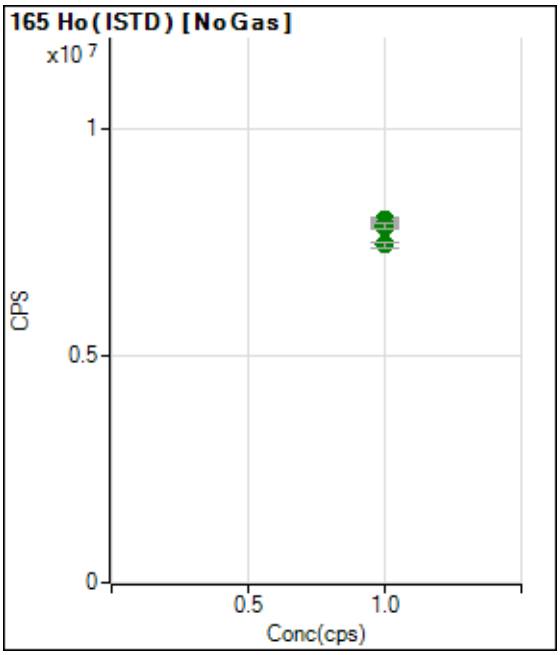


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8194103.97		A	1.3
2	☐	1.000		8189867.03		A	1.1
3	☐	1.000		8144191.34		A	0.7
4	☐	1.000		8208978.63		A	0.7
5	☐	1.000		8100685.44		A	0.4
6	☐	1.000		8116243.28		A	0.9
7	☐	1.000		8002818.56		A	1.3
8	☐	1.000		7636089.47		A	1.4

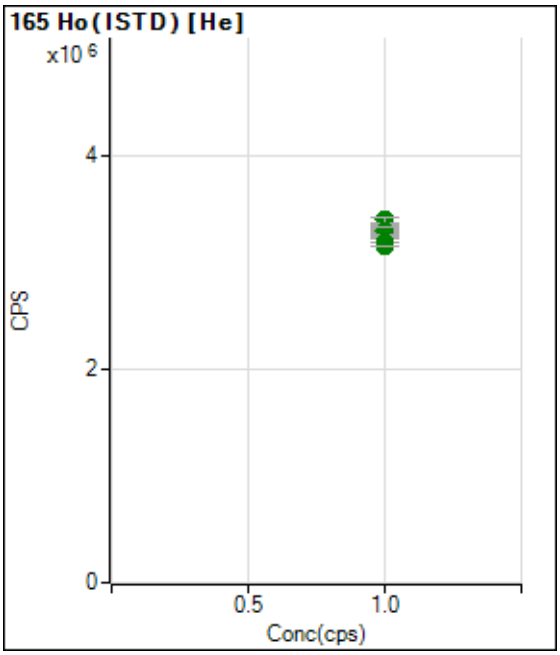


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3277381.10		A	1.5
2	☐	1.000		3313148.25		A	0.7
3	☐	1.000		3262362.52		A	1.3
4	☐	1.000		3216163.25		A	0.9
5	☐	1.000		3156843.22		A	0.3
6	☐	1.000		3132335.44		A	2.4
7	☐	1.000		3112146.41		A	1.3
8	☐	1.000		3028902.49		A	0.6

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

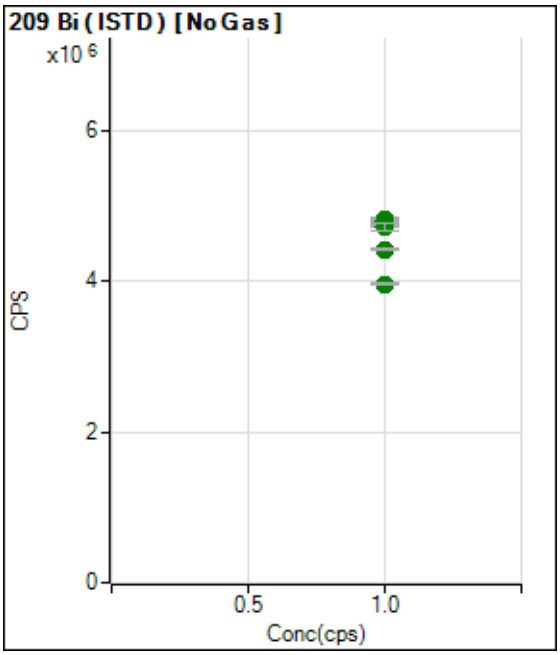


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7944899.05		A	1.5
2	☐	1.000		7828819.33		A	1.5
3	☐	1.000		7977896.76		A	1.2
4	☐	1.000		7948131.55		A	0.7
5	☐	1.000		7872285.65		A	1.7
6	☐	1.000		7818264.88		A	1.2
7	☐	1.000		7852089.05		A	1.3
8	☐	1.000		7432932.18		A	1.5

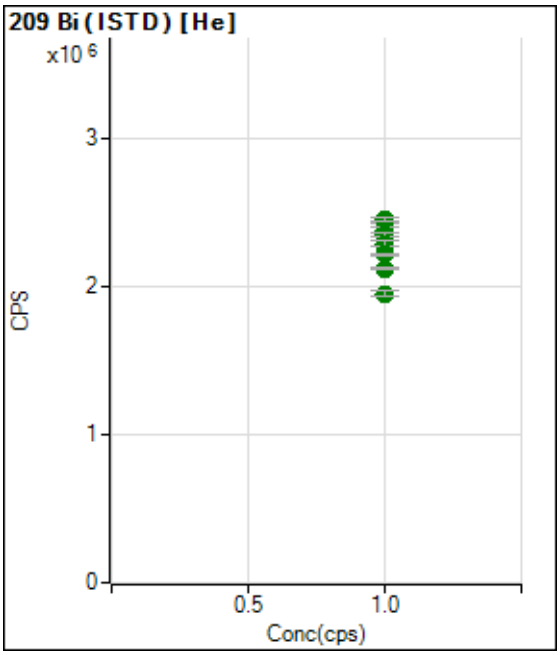


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3316601.93		A	1.5
2	☐	1.000		3393640.88		A	1.6
3	☐	1.000		3298856.90		A	1.2
4	☐	1.000		3296424.84		A	1.6
5	☐	1.000		3241028.43		A	1.2
6	☐	1.000		3244211.69		A	0.3
7	☐	1.000		3182836.72		A	0.3
8	☐	1.000		3150425.23		A	0.1

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4818391.39		A	1.0
2		1.000		4807746.11		A	1.2
3		1.000		4791726.08		A	1.6
4		1.000		4770468.02		A	0.1
5		1.000		4737183.58		A	0.8
6		1.000		4716036.32		A	2.2
7		1.000		4428131.19		A	1.0
8		1.000		3962806.54		A	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2430855.89		A	0.8
2		1.000		2448446.21		A	0.9
3		1.000		2380268.71		A	1.2
4		1.000		2345295.71		A	1.0
5		1.000		2289205.28		A	1.5
6		1.000		2216250.05		A	0.6
7		1.000		2119794.86		A	1.0
8		1.000		1950406.15		A	1.7

US EPA Tune Check Report

Reviewed By:JANY
On:4/16/2025 12:5
PM
Inst Id :P8
LB :LB135426

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8041425 MS.b
Acq. Date-Time	2025-04-14 14:32:34
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		68645	686449.75			0.715	5.000
24		314827	3148273.48			1.302	5.000
25		43357	433571.09			1.425	5.000
26		50641	506406.52			1.449	5.000
59		287787	2877871.40			1.247	5.000
113		33261	332605.78			0.488	5.000
115		425530	4255298.44			1.129	5.000
206		93665	936654.65			0.944	5.000
207		75708	757078.73			0.897	5.000
208		191066	1910664.45			0.802	5.000
220		1	5.70			29.487	

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	69339	68862	68349	68620	68055
24	322104	313264	312150	313446	313173
25	44448	42984	43034	43247	43073
26	51916	50575	50089	50360	50264
59	293311	285010	286271	284906	289438
113	33511	33263	33113	33295	33121
115	433672	420947	423653	424796	424582
206	94389	94670	92860	92695	93713
207	76689	75145	75011	75704	75990
208	193417	191273	189266	191077	190299

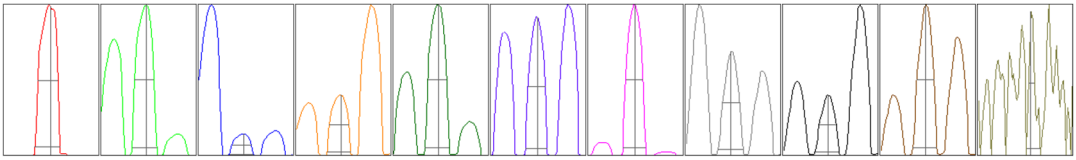
US EPA Tune Check Report

Reviewed By:JAN
On:4/16/2025 12:5
PM
Inst Id :P8
LB :LB135426

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	112783.03	9.00	8.90 - 9.10	
24	539914.13	23.95	23.90 - 24.10	
25	74858.98	24.95	24.90 - 25.10	
26	86005.14	25.95	25.90 - 26.10	
59	508220.07	58.95	58.90 - 59.10	
113	65437.58	113.00	112.90 - 113.10	
115	827372.69	115.00	114.90 - 115.10	
206	183268.52	205.95	205.90 - 206.10	
207	149775.49	206.95	206.90 - 207.10	
208	374954.20	207.95	207.90 - 208.10	
220	1.05	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.781	0.900	
24	0.62	0.782	0.900	
25	0.62	0.743	0.900	
26	0.63	0.741	0.900	
59	0.60	0.775	0.900	
113	0.54	0.685	0.900	
115	0.54	0.726	0.900	
206	0.53	0.792	0.900	
207	0.54	0.764	0.900	
208	0.54	0.759	0.900	
220	0.18	0.435		

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:JANY
On:4/16/2025 12:5
PM
Inst Id :P8
LB :LB135426

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	9.2 V	Deflect	14.0 V
Extract 2	-215.0 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	130 V		

QP Parameters

Mass Gain	105	Axis Gain	0.9965	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.4 mm		

EM

Discriminator	4.6 mV	Analog HV	2203 V	Pulse HV	947 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		58730	587298.80			0.203	
89		50424	504239.51			0.532	
205		66633	666327.91			0.240	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	58811	58774	58605	58857	58602
89	50533	50465	50676	50479	49967
205	66469	66477	66825	66640	66753

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	9.2 V	Deflect	2.6 V

US EPA Tune Check Report

Reviewed By:JAN
On:4/16/2025 12:5
PM
Inst Id :P8
LB :LB135426

Extract 2	-215.0 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	105	Axis Gain	0.9965	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.4 mm		

EM

Discriminator	4.6 mV	Analog HV	2203 V	Pulse HV	947 V

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.15	-0.02	0.18	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	-0.01	0.01	0.00	N/A	ppb
Barium	135-1	-0.01	0.00	0.00	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	-0.01	0.01	0.00	0.00	N/A	ppb
Cadmium	106-1	-0.09	0.18	-0.09	0.00	N/A	ppb
Cadmium	111-1	-0.01	0.01	0.00	0.00	N/A	ppb
Calcium	43-1	1.39	-0.62	-0.77	0.00	N/A	ppb
Calcium	44-1	0.08	-0.33	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	-0.01	0.00	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.00	0.01	-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	-0.28	0.13	0.14	0.00	N/A	ppb
Iron	56-2	-0.03	-0.06	0.09	0.00	N/A	ppb
Iron	57-2	0.02	-0.14	0.13	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:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.00	-0.01	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	0.09	0.18	-0.27	0.00	N/A	ppb
Manganese	55-2	0.13	-0.01	-0.12	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	-15.24	-16.06	-17.55	-16.28		ppb
Potassium	39-2	1.14	-0.28	-0.86	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	-0.14	0.10	0.00	N/A	ppb
Selenium	77-2	-0.14	-0.14	0.28	0.00	N/A	ppb
Selenium	78-2	0.17	0.15	-0.32	0.00	N/A	ppb
Silicon	28-1	0.39	-0.61	0.22	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	1.13	-0.47	-0.66	0.00	N/A	ppb
Strontium	86-1	0.00	-0.01	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	102.94	-104.58	-10.10	-3.91		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	-0.01	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:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	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	-0.10	0.05	0.05	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

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.47	21.34	19.40	20.40	4.76	ppb
Antimony	121-1	2.07	2.11	2.13	2.10	1.64	ppb
Arsenic	75-2	1.23	1.25	1.01	1.16	11.43	ppb
Barium	135-1	10.31	10.33	10.59	10.41	1.49	ppb
Barium	137-1	10.39	10.48	10.57	10.48	0.82	ppb
Beryllium	9-1	1.21	1.24	1.20	1.22	2.01	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.98	1.16	0.85	1.00	15.77	ppb
Cadmium	106-1	1.46	0.64	1.08	1.06	38.87	ppb
Cadmium	111-1	1.11	1.07	1.17	1.12	4.42	ppb
Calcium	43-1	552.29	535.93	542.11	543.44	1.52	ppb
Calcium	44-1	542.76	534.35	535.99	537.70	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.18	2.17	2.07	2.14	2.66	ppb
Cobalt	59-2	1.19	1.17	1.14	1.17	1.98	ppb
Copper	63-2	2.34	2.25	2.25	2.28	2.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	60.06	57.76	53.73	57.18	5.60	ppb
Iron	56-2	56.80	55.18	53.00	55.00	3.46	ppb
Iron	57-2	55.00	54.02	52.59	53.87	2.25	ppb
Krypton	83-1						cps
Lead	206-1	0.99	0.98	0.95	0.97	2.42	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.00	1.00	0.99	1.00	0.49	ppb
Lead	208-1	0.99	0.98	0.98	0.98	0.85	ppb
Lithium	6-1				102		%
Magnesium	24-2	565.71	557.72	540.40	554.61	2.33	ppb
Manganese	55-2	0.99	1.01	0.48	0.83	36.62	ppb
Molybdenum	94-1	6.00	6.22	6.03	6.08	1.95	ppb
Molybdenum	95-1	5.06	5.23	5.21	5.17	1.79	ppb
Molybdenum	96-1	5.19	5.31	5.33	5.28	1.39	ppb
Molybdenum	97-1	5.20	5.17	5.29	5.22	1.18	ppb
Molybdenum	98-1	5.08	5.15	5.17	5.13	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.18	1.07	1.08	1.11	5.41	ppb
Phosphorus	31-2	23.07	11.63	14.14	16.28	36.93	ppb
Potassium	39-2	520.12	518.43	500.63	513.06	2.11	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	5.73	5.34	5.38	5.48	3.86	ppb
Selenium	77-2	4.40	6.03	4.78	5.07	16.83	ppb
Selenium	78-2	6.41	5.16	5.87	5.81	10.72	ppb
Silicon	28-1	7.22	7.16	7.64	7.34	3.54	ppb
Silver	107-1	1.05	1.08	1.11	1.08	2.81	ppb
Silver	109-1	1.08	1.10	1.09	1.09	0.94	ppb
Sodium	23-2	556.32	544.34	529.35	543.34	2.49	ppb
Strontium	86-1	1.04	1.06	1.01	1.03	2.15	ppb
Strontium	88-1	1.02	1.03	1.05	1.04	1.17	ppb
Sulfur	34-1	60.64	-25.65	-23.25	3.91	1255.52	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.99	0.98	0.97	0.98	1.01	ppb
Thallium	205-1	1.01	0.99	0.99	1.00	1.06	ppb
Tin	118-1	5.15	5.26	5.30	5.24	1.48	ppb
Titanium	47-1	5.58	5.35	5.21	5.38	3.52	ppb
Uranium	238-1	0.99	0.95	0.96	0.97	1.79	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.68	5.52	5.37	5.52	2.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	5.52	5.58	5.30	5.47	2.73	ppb
Zirconium	90-1	1.02	1.04	1.04	1.03	1.19	ppb
Zirconium	91-1	1.02	1.04	1.02	1.02	1.29	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	999.82	992.02	1000.87	997.57	0.48	ppb
Antimony	121-1	50.11	50.75	50.39	50.42	0.64	ppb
Arsenic	75-2	50.57	50.01	50.83	50.47	0.84	ppb
Barium	135-1	256.31	265.69	255.18	259.06	2.23	ppb
Barium	137-1	260.62	258.60	253.93	257.72	1.33	ppb
Beryllium	9-1	55.62	54.86	53.91	54.79	1.56	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	54.29	53.67	53.14	53.70	1.07	ppb
Cadmium	106-1	52.33	53.91	52.62	52.95	1.59	ppb
Cadmium	111-1	51.64	52.11	51.51	51.75	0.62	ppb
Calcium	43-1	5029.53	5152.89	5099.52	5093.98	1.21	ppb
Calcium	44-1	4999.88	5022.62	5024.15	5015.55	0.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.03	50.94	51.12	51.03	0.18	ppb
Cobalt	59-2	52.95	52.65	52.86	52.82	0.29	ppb
Copper	63-2	546.09	542.49	552.06	546.88	0.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	2652.52	2652.05	2660.51	2655.03	0.18	ppb
Iron	56-2	2619.67	2604.59	2646.86	2623.71	0.82	ppb
Iron	57-2	2638.36	2613.86	2647.31	2633.18	0.66	ppb
Krypton	83-1						cps
Lead	206-1	250.90	248.54	245.89	248.45	1.01	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	248.89	249.85	248.65	249.13	0.26	ppb
Lead	208-1	249.75	248.86	244.73	247.78	1.08	ppb
Lithium	6-1				104		%
Magnesium	24-2	5225.45	5227.22	5145.95	5199.54	0.89	ppb
Manganese	55-2	513.56	511.28	515.11	513.31	0.38	ppb
Molybdenum	94-1	487.42	488.10	497.54	491.02	1.15	ppb
Molybdenum	95-1	493.04	498.85	507.96	499.95	1.50	ppb
Molybdenum	96-1	490.49	497.63	515.05	501.06	2.52	ppb
Molybdenum	97-1	489.00	493.52	518.46	500.33	3.17	ppb
Molybdenum	98-1	493.36	486.41	501.74	493.84	1.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	52.77	52.82	53.25	52.95	0.50	ppb
Phosphorus	31-2	1095.16	1075.81	1101.77	1090.91	1.24	ppb
Potassium	39-2	2444.90	2455.67	2456.97	2452.51	0.27	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	50.56	52.73	52.85	52.05	2.48	ppb
Selenium	77-2	53.14	52.98	49.24	51.79	4.27	ppb
Selenium	78-2	49.93	51.57	51.82	51.11	2.02	ppb
Silicon	28-1	50.05	50.72	49.33	50.03	1.39	ppb
Silver	107-1	56.27	56.96	54.55	55.93	2.22	ppb
Silver	109-1	55.94	55.68	55.31	55.64	0.57	ppb
Sodium	23-2	5100.90	4973.34	5137.68	5070.64	1.70	ppb
Strontium	86-1	48.26	48.39	49.25	48.64	1.11	ppb
Strontium	88-1	49.89	50.21	50.38	50.16	0.50	ppb
Sulfur	34-1	1363.75	1410.21	1261.86	1345.28	5.64	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	47.56	47.28	46.74	47.19	0.88	ppb
Thallium	205-1	49.80	49.85	49.19	49.61	0.75	ppb
Tin	118-1	50.83	51.26	50.64	50.91	0.62	ppb
Titanium	47-1	519.09	505.80	509.08	511.32	1.35	ppb
Uranium	238-1	47.64	48.59	47.16	47.80	1.53	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.57	51.62	51.70	51.63	0.13	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	518.39	516.94	516.60	517.31	0.18	ppb
Zirconium	90-1	48.87	50.58	50.46	49.97	1.91	ppb
Zirconium	91-1	46.86	48.15	48.99	48.00	2.23	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2551.43	2487.46	2477.98	2505.62	1.59	ppb
Antimony	121-1	125.92	127.60	127.02	126.85	0.67	ppb
Arsenic	75-2	127.25	125.93	124.66	125.94	1.03	ppb
Barium	135-1	620.26	637.28	622.94	626.83	1.46	ppb
Barium	137-1	619.61	620.30	612.87	617.60	0.66	ppb
Beryllium	9-1	133.82	137.57	135.55	135.65	1.38	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	127.70	131.61	129.30	129.54	1.52	ppb
Cadmium	106-1	127.41	131.17	129.89	129.49	1.48	ppb
Cadmium	111-1	125.07	126.92	126.32	126.10	0.75	ppb
Calcium	43-1	12521.09	12587.56	12457.17	12521.94	0.52	ppb
Calcium	44-1	12262.08	12373.41	12248.98	12294.82	0.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	130.02	128.16	127.57	128.58	1.00	ppb
Cobalt	59-2	133.15	130.42	130.25	131.28	1.24	ppb
Copper	63-2	1364.61	1340.44	1361.33	1355.46	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				93		%
Iron	54-2	7034.90	6798.93	6879.63	6904.49	1.74	ppb
Iron	56-2	6623.20	6629.79	6627.81	6626.93	0.05	ppb
Iron	57-2	6691.97	6522.86	6590.22	6601.69	1.29	ppb
Krypton	83-1						cps
Lead	206-1	599.28	624.06	619.44	614.26	2.15	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	600.17	618.45	622.18	613.60	1.92	ppb
Lead	208-1	603.61	613.52	616.57	611.23	1.11	ppb
Lithium	6-1				101		%
Magnesium	24-2	13223.76	12638.49	12832.29	12898.18	2.31	ppb
Manganese	55-2	1337.06	1306.21	1320.57	1321.28	1.17	ppb
Molybdenum	94-1	1216.85	1231.81	1235.48	1228.04	0.80	ppb
Molybdenum	95-1	1248.55	1245.10	1250.81	1248.15	0.23	ppb
Molybdenum	96-1	1249.78	1243.58	1261.47	1251.61	0.73	ppb
Molybdenum	97-1	1236.03	1239.24	1268.03	1247.77	1.41	ppb
Molybdenum	98-1	1225.94	1231.75	1252.13	1236.61	1.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	132.92	130.67	131.42	131.67	0.87	ppb
Phosphorus	31-2	2721.36	2619.78	2658.94	2666.69	1.92	ppb
Potassium	39-2	6308.16	6162.44	6174.67	6215.09	1.30	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	129.46	127.31	129.71	128.83	1.02	ppb
Selenium	77-2	119.62	130.04	117.64	122.43	5.44	ppb
Selenium	78-2	127.66	122.75	128.25	126.22	2.39	ppb
Silicon	28-1	126.68	124.44	125.95	125.69	0.91	ppb
Silver	107-1	132.79	131.85	131.59	132.07	0.48	ppb
Silver	109-1	130.46	134.54	132.83	132.61	1.54	ppb
Sodium	23-2	12876.24	12507.47	12515.74	12633.15	1.67	ppb
Strontium	86-1	120.84	119.88	122.56	121.09	1.12	ppb
Strontium	88-1	122.38	123.07	127.66	124.37	2.31	ppb
Sulfur	34-1	3474.88	3460.50	3270.86	3402.08	3.35	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	122.07	125.98	126.56	124.87	1.96	ppb
Thallium	205-1	121.08	122.67	122.69	122.15	0.76	ppb
Tin	118-1	126.36	129.50	126.63	127.50	1.36	ppb
Titanium	47-1	1250.43	1250.47	1224.62	1241.84	1.20	ppb
Uranium	238-1	117.33	116.46	115.43	116.40	0.82	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	131.98	128.08	128.16	129.41	1.72	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	1321.81	1295.05	1297.29	1304.72	1.14	ppb
Zirconium	90-1	123.48	120.66	123.68	122.60	1.38	ppb
Zirconium	91-1	120.33	119.92	121.86	120.70	0.85	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4903.31	4938.34	4883.86	4908.50	0.56	ppb
Antimony	121-1	254.87	257.18	251.17	254.41	1.19	ppb
Arsenic	75-2	256.86	249.76	251.24	252.62	1.48	ppb
Barium	135-1	1269.63	1255.22	1260.92	1261.93	0.57	ppb
Barium	137-1	1265.83	1258.80	1273.16	1265.93	0.57	ppb
Beryllium	9-1	260.69	269.75	258.75	263.07	2.23	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	258.42	259.12	262.05	259.86	0.74	ppb
Cadmium	106-1	258.27	260.14	255.97	258.13	0.81	ppb
Cadmium	111-1	262.03	264.53	266.42	264.33	0.83	ppb
Calcium	43-1	25561.91	25535.28	24810.83	25302.67	1.68	ppb
Calcium	44-1	24956.84	24862.17	24652.52	24823.84	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	260.33	263.93	262.78	262.35	0.70	ppb
Cobalt	59-2	266.02	267.03	265.25	266.10	0.34	ppb
Copper	63-2	2690.71	2686.69	2645.84	2674.41	0.93	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				98		%
Indium	115-1				95		%
Indium	115-2				90		%
Iron	54-2	13516.04	13586.48	13233.96	13445.49	1.39	ppb
Iron	56-2	13003.94	13155.04	13111.09	13090.02	0.59	ppb
Iron	57-2	13023.34	13132.04	13037.17	13064.18	0.45	ppb
Krypton	83-1						cps
Lead	206-1	1215.75	1226.47	1228.51	1223.58	0.56	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1238.91	1250.01	1224.00	1237.64	1.05	ppb
Lead	208-1	1235.53	1252.68	1224.63	1237.61	1.14	ppb
Lithium	6-1				97		%
Magnesium	24-2	25003.23	25088.21	25199.73	25097.06	0.39	ppb
Manganese	55-2	2585.88	2613.02	2574.74	2591.21	0.76	ppb
Molybdenum	94-1	2485.13	2507.63	2506.28	2499.68	0.50	ppb
Molybdenum	95-1	2508.83	2552.49	2526.79	2529.37	0.87	ppb
Molybdenum	96-1	2532.22	2539.50	2505.46	2525.73	0.71	ppb
Molybdenum	97-1	2521.02	2528.92	2487.75	2512.56	0.87	ppb
Molybdenum	98-1	2479.80	2535.62	2501.35	2505.59	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	254.38	256.34	255.11	255.27	0.39	ppb
Phosphorus	31-2	5127.79	5260.06	5204.34	5197.40	1.28	ppb
Potassium	39-2	12080.51	12081.75	12145.27	12102.51	0.31	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				95		%
Scandium	45-2				91		%
Selenium	82-1	253.20	261.26	260.98	258.48	1.77	ppb
Selenium	77-2	255.07	236.69	250.98	247.58	3.90	ppb
Selenium	78-2	265.46	246.89	257.50	256.62	3.63	ppb
Silicon	28-1	252.37	254.28	253.97	253.54	0.40	ppb
Silver	107-1	264.01	262.43	264.40	263.61	0.39	ppb
Silver	109-1	265.12	268.40	263.40	265.64	0.96	ppb
Sodium	23-2	24940.70	25012.15	24460.33	24804.39	1.21	ppb
Strontium	86-1	254.29	256.30	252.73	254.44	0.70	ppb
Strontium	88-1	252.81	248.98	252.70	251.50	0.87	ppb
Sulfur	34-1	4996.66	4999.11	4855.77	4950.51	1.66	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	243.42	241.80	240.22	241.81	0.66	ppb
Thallium	205-1	241.92	241.89	241.44	241.75	0.11	ppb
Tin	118-1	253.77	257.54	252.28	254.53	1.07	ppb
Titanium	47-1	2509.47	2464.21	2484.44	2486.04	0.91	ppb
Uranium	238-1	240.69	245.47	240.90	242.35	1.11	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	255.05	257.68	256.62	256.45	0.52	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	2680.54	2681.50	2703.42	2688.49	0.48	ppb
Zirconium	90-1	247.08	250.15	250.56	249.26	0.76	ppb
Zirconium	91-1	253.15	254.26	258.28	255.23	1.06	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9566.60	9643.82	9604.71	9605.05	0.40	ppb
Antimony	121-1	503.26	486.49	503.97	497.91	1.99	ppb
Arsenic	75-2	504.14	499.97	505.80	503.30	0.60	ppb
Barium	135-1	2513.55	2424.65	2454.11	2464.10	1.84	ppb
Barium	137-1	2506.18	2404.82	2461.38	2457.46	2.07	ppb
Beryllium	9-1	497.31	497.88	512.89	502.70	1.76	ppb
Bismuth	209-1				98		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	502.05	501.44	514.57	506.02	1.46	ppb
Cadmium	106-1	502.40	506.93	505.04	504.79	0.45	ppb
Cadmium	111-1	513.38	498.27	504.72	505.46	1.50	ppb
Calcium	43-1	50721.39	49872.76	49974.76	50189.64	0.92	ppb
Calcium	44-1	50010.06	49683.50	49474.16	49722.57	0.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	515.88	520.50	516.97	517.78	0.47	ppb
Cobalt	59-2	520.61	520.53	525.43	522.19	0.54	ppb
Copper	63-2	5130.46	5234.32	5205.37	5190.05	1.03	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				98		%
Holmium	165-2				98		%
Indium	115-1				92		%
Indium	115-2				85		%
Iron	54-2	26588.28	26317.50	26469.05	26458.28	0.51	ppb
Iron	56-2	25872.31	26022.37	26120.36	26005.02	0.48	ppb
Iron	57-2	26640.43	26839.85	26181.98	26554.08	1.27	ppb
Krypton	83-1						cps
Lead	206-1	2454.10	2375.10	2460.03	2429.74	1.95	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2424.50	2408.90	2479.45	2437.62	1.52	ppb
Lead	208-1	2432.45	2406.07	2483.80	2440.77	1.62	ppb
Lithium	6-1				97		%
Magnesium	24-2	49438.74	49611.16	49805.41	49618.44	0.37	ppb
Manganese	55-2	5150.92	5151.92	5150.34	5151.06	0.02	ppb
Molybdenum	94-1	4977.12	4992.94	4928.40	4966.15	0.68	ppb
Molybdenum	95-1	5029.63	5019.31	4994.66	5014.53	0.36	ppb
Molybdenum	96-1	5050.59	4977.49	5043.52	5023.87	0.80	ppb
Molybdenum	97-1	5045.60	4981.94	5037.72	5021.75	0.69	ppb
Molybdenum	98-1	5036.84	4973.78	4966.82	4992.48	0.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	489.83	493.05	494.43	492.44	0.48	ppb
Phosphorus	31-2	10239.10	10406.96	10049.61	10231.89	1.75	ppb
Potassium	39-2	23313.95	23320.67	23400.33	23344.98	0.21	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				93		%
Scandium	45-2				90		%
Selenium	82-1	508.09	504.25	507.06	506.46	0.39	ppb
Selenium	77-2	517.79	511.82	498.25	509.29	1.97	ppb
Selenium	78-2	517.72	511.59	501.20	510.17	1.64	ppb
Silicon	28-1	513.45	510.57	507.56	510.53	0.58	ppb
Silver	107-1	507.72	511.48	512.97	510.72	0.53	ppb
Silver	109-1	506.71	500.04	515.01	507.25	1.48	ppb
Sodium	23-2	48700.72	49777.65	48908.35	49128.91	1.16	ppb
Strontium	86-1	505.06	497.06	498.08	500.07	0.87	ppb
Strontium	88-1	494.97	496.03	503.93	498.31	0.98	ppb
Sulfur	34-1	10457.55	9684.90	9805.86	9982.77	4.16	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	482.99	470.40	492.24	481.88	2.28	ppb
Thallium	205-1	486.46	475.62	492.10	484.73	1.73	ppb
Tin	118-1	495.60	487.72	492.42	491.92	0.81	ppb
Titanium	47-1	5050.37	5013.11	4971.89	5011.79	0.78	ppb
Uranium	238-1	470.10	472.27	485.68	476.01	1.77	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	515.71	519.68	514.36	516.58	0.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				91		%
Zinc	66-2	5193.50	5197.09	5128.10	5172.90	0.75	ppb
Zirconium	90-1	497.50	494.43	490.80	494.24	0.68	ppb
Zirconium	91-1	505.47	497.52	497.07	500.02	0.94	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18861.41	18339.15	18803.08	18667.88	1.53	ppb
Antimony	121-1	995.79	993.64	1009.65	999.69	0.87	ppb
Arsenic	75-2	995.70	1002.43	994.53	997.55	0.43	ppb
Barium	135-1	5029.23	5000.18	5013.44	5014.28	0.29	ppb
Barium	137-1	5109.37	4960.46	4983.65	5017.83	1.60	ppb
Beryllium	9-1	1000.94	1000.62	979.89	993.81	1.21	ppb
Bismuth	209-1				92		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	1002.88	979.20	999.24	993.77	1.28	ppb
Cadmium	106-1	999.37	985.53	999.69	994.86	0.81	ppb
Cadmium	111-1	1012.56	977.23	990.60	993.47	1.80	ppb
Calcium	43-1	98930.82	99510.67	100699.56	99713.68	0.90	ppb
Calcium	44-1	98554.43	100195.05	99777.24	99508.91	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	989.84	983.20	989.53	987.52	0.38	ppb
Cobalt	59-2	991.32	977.77	982.78	983.96	0.70	ppb
Copper	63-2	9926.44	9839.06	9772.04	9845.85	0.79	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				96		%
Indium	115-1				88		%
Indium	115-2				78		%
Iron	54-2	50733.81	50741.22	50912.16	50795.73	0.20	ppb
Iron	56-2	51414.06	49467.69	49579.71	50153.82	2.18	ppb
Iron	57-2	51328.61	50058.93	49888.01	50425.18	1.56	ppb
Krypton	83-1						cps
Lead	206-1	5097.41	4991.71	5040.34	5043.15	1.05	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5016.48	5027.51	5063.26	5035.75	0.49	ppb
Lead	208-1	5033.94	4992.53	5077.16	5034.54	0.84	ppb
Lithium	6-1				93		%
Magnesium	24-2	98418.85	96524.41	95746.72	96896.66	1.42	ppb
Manganese	55-2	10045.45	9805.95	9824.87	9892.09	1.35	ppb
Molybdenum	94-1	10157.45	10022.97	9880.17	10020.20	1.38	ppb
Molybdenum	95-1	10133.69	9863.65	9959.54	9985.62	1.37	ppb
Molybdenum	96-1	10008.98	9844.34	10090.82	9981.38	1.26	ppb
Molybdenum	97-1	9997.17	9971.45	9990.11	9986.24	0.13	ppb
Molybdenum	98-1	10102.67	9952.24	9958.13	10004.34	0.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1020.25	993.62	990.58	1001.48	1.63	ppb
Phosphorus	31-2	20009.69	19606.43	19811.85	19809.32	1.02	ppb
Potassium	39-2	46525.79	45988.64	46085.94	46200.12	0.62	ppb
Rhodium	103-1				87		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				92		%
Selenium	82-1	987.04	993.52	1001.64	994.06	0.74	ppb
Selenium	77-2	997.41	1021.34	969.83	996.19	2.59	ppb
Selenium	78-2	1003.52	992.83	982.79	993.05	1.04	ppb
Silicon	28-1	982.31	991.25	1007.80	993.79	1.30	ppb
Silver	107-1	1002.04	975.73	992.40	990.06	1.34	ppb
Silver	109-1	986.16	982.59	1004.94	991.23	1.21	ppb
Sodium	23-2	97012.13	94556.12	94573.74	95380.66	1.48	ppb
Strontium	86-1	1009.31	999.05	989.87	999.41	0.97	ppb
Strontium	88-1	993.73	996.86	1011.03	1000.54	0.92	ppb
Sulfur	34-1	20015.46	20071.41	19586.01	19890.96	1.34	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	1020.64	1006.44	1006.71	1011.27	0.80	ppb
Thallium	205-1	1017.96	998.11	1014.15	1010.08	1.04	ppb
Tin	118-1	1008.14	993.02	1006.50	1002.55	0.83	ppb
Titanium	47-1	9942.93	10099.91	9951.30	9998.05	0.88	ppb
Uranium	238-1	1017.91	1005.58	1021.77	1015.09	0.83	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	988.15	983.25	996.99	989.46	0.70	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	9925.38	9806.37	9844.42	9858.72	0.62	ppb
Zirconium	90-1	1014.62	1003.48	992.00	1003.36	1.13	ppb
Zirconium	91-1	1008.03	999.83	990.10	999.32	0.90	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100365.57	101973.71	98591.85	100310.38	1.69	ppb
Antimony	121-1	0.57	0.54	0.54	0.55	3.48	ppb
Arsenic	75-2	0.48	0.64	0.58	0.56	14.74	ppb
Barium	135-1	2.04	2.03	1.99	2.02	1.34	ppb
Barium	137-1	2.07	2.03	1.99	2.03	1.91	ppb
Beryllium	9-1	0.13	0.10	0.09	0.11	18.16	ppb
Bismuth	209-1				82		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	0.39	0.30	0.37	0.35	14.25	ppb
Cadmium	106-1	0.19	0.16	0.21	0.19	14.21	ppb
Cadmium	111-1	0.15	0.13	0.16	0.15	12.03	ppb
Calcium	43-1	499986.09	501844.80	498234.02	500021.63	0.36	ppb
Calcium	44-1	498415.51	502196.14	499807.47	500139.71	0.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.62	8.67	8.54	8.61	0.79	ppb
Cobalt	59-2	2.20	2.18	2.12	2.17	1.85	ppb
Copper	63-2	2.48	2.52	2.44	2.48	1.67	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				94		%
Holmium	165-2				95		%
Indium	115-1				87		%
Indium	115-2				87		%
Iron	54-2	252668.00	251312.16	244909.36	249629.84	1.66	ppb
Iron	56-2	251820.22	252504.44	245161.05	249828.57	1.62	ppb
Iron	57-2	250367.45	251173.11	247623.11	249721.22	0.75	ppb
Krypton	83-1						cps
Lead	206-1	5.78	5.78	5.75	5.77	0.27	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.96	5.83	5.78	5.86	1.59	ppb
Lead	208-1	5.86	5.82	5.79	5.82	0.62	ppb
Lithium	6-1				88		%
Magnesium	24-2	501690.01	505304.85	494931.04	500641.97	1.05	ppb
Manganese	55-2	-3.58	-3.37	-3.44	-3.47		ppb
Molybdenum	94-1	1.96	1.91	1.91	1.93	1.54	ppb
Molybdenum	95-1	1.35	1.26	1.31	1.31	3.42	ppb
Molybdenum	96-1	2.23	2.17	2.16	2.19	1.62	ppb
Molybdenum	97-1	1.35	1.28	1.26	1.30	3.61	ppb
Molybdenum	98-1	1.28	1.19	1.19	1.22	4.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.57	4.66	4.58	4.60	1.08	ppb
Phosphorus	31-2	-1.54	-12.88	-1.75	-5.39		ppb
Potassium	39-2	250522.70	253400.77	248916.55	250946.67	0.91	ppb
Rhodium	103-1				79		%
Rhodium	103-2				79		%
Scandium	45-1				90		%
Scandium	45-2				91		%
Selenium	82-1	1.01	0.67	1.01	0.90	22.32	ppb
Selenium	77-2	0.31	1.64	0.75	0.90	75.57	ppb
Selenium	78-2	0.36	0.23	1.01	0.53	79.23	ppb
Silicon	28-1	21.30	20.07	17.20	19.52	10.76	ppb
Silver	107-1	0.10	0.09	0.09	0.09	8.12	ppb
Silver	109-1	0.10	0.10	0.09	0.10	7.30	ppb
Sodium	23-2	505894.87	500812.44	496342.72	501016.68	0.95	ppb
Strontium	86-1	3.33	3.21	3.26	3.27	1.83	ppb
Strontium	88-1	3.26	3.21	3.26	3.24	0.82	ppb
Sulfur	34-1	-823.94	-630.92	-653.88	-702.91		ppb
Terbium	159-1				93		%
Terbium	159-2				92		%
Thallium	203-1	0.09	0.08	0.07	0.08	14.86	ppb
Thallium	205-1	0.09	0.07	0.06	0.07	15.52	ppb
Tin	118-1	0.13	0.13	0.16	0.14	11.02	ppb
Titanium	47-1	0.65	0.74	0.68	0.69	7.20	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	10.59	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.29	0.28	0.29	0.29	2.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				92		%
Zinc	66-2	59.57	59.79	58.44	59.27	1.23	ppb
Zirconium	90-1	0.46	0.45	0.46	0.46	1.82	ppb
Zirconium	91-1	0.46	0.46	0.46	0.46	0.80	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	469.89	476.43	462.45	469.59	1.49	ppb
Antimony	121-1	195.23	196.72	199.71	197.22	1.16	ppb
Arsenic	75-2	195.40	196.56	192.62	194.86	1.04	ppb
Barium	135-1	95.56	96.52	97.58	96.55	1.05	ppb
Barium	137-1	96.46	97.17	97.24	96.96	0.45	ppb
Beryllium	9-1	108.32	109.43	106.93	108.22	1.16	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	84.61	86.72	84.39	85.24	1.51	ppb
Cadmium	106-1	80.75	80.67	81.89	81.10	0.84	ppb
Cadmium	111-1	98.54	99.82	101.46	99.94	1.46	ppb
Calcium	43-1	1931.73	1902.11	1933.38	1922.41	0.92	ppb
Calcium	44-1	1930.31	1930.94	1968.03	1943.09	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.96	101.91	100.35	101.07	0.78	ppb
Cobalt	59-2	105.22	105.03	103.34	104.53	0.99	ppb
Copper	63-2	106.09	106.27	105.21	105.86	0.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				105		%
Indium	115-1				105		%
Indium	115-2				102		%
Iron	54-2	2092.42	2089.11	2068.41	2083.31	0.62	ppb
Iron	56-2	2035.10	2029.52	1975.29	2013.31	1.64	ppb
Iron	57-2	2001.99	1996.81	1994.20	1997.67	0.20	ppb
Krypton	83-1						cps
Lead	206-1	190.25	196.78	194.23	193.76	1.70	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	187.04	190.13	191.45	189.54	1.20	ppb
Lead	208-1	188.97	191.81	193.18	191.32	1.12	ppb
Lithium	6-1				106		%
Magnesium	24-2	1149.21	1158.26	1144.30	1150.59	0.62	ppb
Manganese	55-2	100.15	99.97	99.77	99.96	0.19	ppb
Molybdenum	94-1	0.05	0.06	0.06	0.05	11.69	ppb
Molybdenum	95-1	0.01	0.02	0.02	0.01	17.62	ppb
Molybdenum	96-1	0.03	0.05	0.04	0.04	19.34	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	22.07	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	8.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.64	105.21	102.67	103.84	1.23	ppb
Phosphorus	31-2	-14.61	-24.27	-15.72	-18.20		ppb
Potassium	39-2	1849.74	1870.58	1853.23	1857.85	0.60	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	204.82	206.11	212.37	207.76	1.94	ppb
Selenium	77-2	213.70	217.69	206.57	212.65	2.65	ppb
Selenium	78-2	210.44	218.06	204.89	211.13	3.13	ppb
Silicon	28-1	-1.41	-1.71	-2.28	-1.80		ppb
Silver	107-1	51.44	52.22	52.90	52.19	1.39	ppb
Silver	109-1	51.40	53.14	53.28	52.61	2.00	ppb
Sodium	23-2	1957.10	1986.96	1961.03	1968.37	0.82	ppb
Strontium	86-1	0.23	0.21	0.23	0.22	3.55	ppb
Strontium	88-1	0.22	0.23	0.23	0.23	2.97	ppb
Sulfur	34-1	-562.44	-662.88	-653.48	-626.27		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	190.00	194.71	190.65	191.79	1.33	ppb
Thallium	205-1	190.30	192.46	187.41	190.06	1.33	ppb
Tin	118-1	0.01	0.02	0.00	0.01	78.88	ppb
Titanium	47-1	0.02	0.03	0.00	0.02	70.77	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	99.61	100.88	98.64	99.71	1.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				102		%
Zinc	66-2	200.93	200.65	197.37	199.65	0.99	ppb
Zirconium	90-1	0.01	0.02	0.02	0.01	10.41	ppb
Zirconium	91-1	0.10	0.08	0.09	0.09	6.49	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.15	18.94	19.86	19.65	3.20	ppb
Antimony	121-1	2.07	2.04	2.07	2.06	0.91	ppb
Arsenic	75-2	1.01	1.07	1.00	1.03	3.52	ppb
Barium	135-1	10.16	9.98	10.28	10.14	1.49	ppb
Barium	137-1	10.14	10.18	10.28	10.20	0.67	ppb
Beryllium	9-1	1.19	1.18	1.17	1.18	0.76	ppb
Bismuth	209-1				104		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	1.11	1.09	1.09	1.10	0.98	ppb
Cadmium	106-1	0.73	1.02	1.20	0.98	24.51	ppb
Cadmium	111-1	1.08	1.02	1.09	1.06	3.71	ppb
Calcium	43-1	530.56	513.35	535.24	526.38	2.19	ppb
Calcium	44-1	520.26	518.21	526.91	521.80	0.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.16	2.17	2.07	2.13	2.60	ppb
Cobalt	59-2	1.13	1.15	1.09	1.12	2.71	ppb
Copper	63-2	2.14	2.28	2.10	2.18	4.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				106		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	54-2	56.59	55.09	56.07	55.92	1.36	ppb
Iron	56-2	53.68	54.70	52.32	53.57	2.23	ppb
Iron	57-2	54.84	52.61	50.19	52.55	4.42	ppb
Krypton	83-1						cps
Lead	206-1	0.96	0.98	0.98	0.98	1.34	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.97	1.03	1.00	1.00	2.65	ppb
Lead	208-1	0.96	1.00	1.00	0.99	2.13	ppb
Lithium	6-1				105		%
Magnesium	24-2	544.85	546.30	530.34	540.50	1.63	ppb
Manganese	55-2	1.00	1.20	0.76	0.99	22.70	ppb
Molybdenum	94-1	5.80	5.98	5.97	5.92	1.67	ppb
Molybdenum	95-1	4.98	4.98	5.16	5.04	2.08	ppb
Molybdenum	96-1	5.04	5.03	5.24	5.10	2.36	ppb
Molybdenum	97-1	4.96	5.05	5.17	5.06	2.02	ppb
Molybdenum	98-1	4.94	4.90	5.06	4.97	1.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.06	1.11	1.02	1.06	4.52	ppb
Phosphorus	31-2	17.13	19.44	6.63	14.40	47.42	ppb
Potassium	39-2	503.04	513.15	499.16	505.12	1.43	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	5.28	5.61	5.29	5.39	3.53	ppb
Selenium	77-2	4.95	8.19	6.17	6.44	25.41	ppb
Selenium	78-2	5.12	5.78	5.63	5.51	6.26	ppb
Silicon	28-1	2.92	3.29	3.36	3.19	7.37	ppb
Silver	107-1	1.04	1.04	1.08	1.05	2.09	ppb
Silver	109-1	1.04	1.05	1.08	1.06	1.89	ppb
Sodium	23-2	542.10	543.16	531.55	538.94	1.19	ppb
Strontium	86-1	1.00	1.05	1.07	1.04	3.63	ppb
Strontium	88-1	1.02	1.01	1.04	1.02	1.76	ppb
Sulfur	34-1	-473.84	-536.14	-501.24	-503.74		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.98	0.98	0.95	0.97	1.70	ppb
Thallium	205-1	0.95	0.98	0.97	0.97	1.34	ppb
Tin	118-1	5.15	5.09	5.30	5.18	2.03	ppb
Titanium	47-1	5.18	5.16	5.23	5.19	0.62	ppb
Uranium	238-1	0.92	0.96	0.95	0.94	2.63	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.22	5.38	5.24	5.28	1.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	5.37	5.47	5.30	5.38	1.53	ppb
Zirconium	90-1	0.99	1.02	1.01	1.01	1.64	ppb
Zirconium	91-1	1.02	1.00	1.01	1.01	1.36	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.12	0.21	-0.26	-0.06		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	28.95	ppb
Arsenic	75-2	-0.02	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.00	0.00	0.00	0.00	194.96	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	319.60	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.01	0.00	0.01	62.92	ppb
Cadmium	106-1	0.07	0.11	0.02	0.07	64.31	ppb
Cadmium	111-1	0.00	0.01	0.00	0.00	114.76	ppb
Calcium	43-1	-1.23	-1.58	-1.03	-1.28		ppb
Calcium	44-1	1.62	1.44	1.54	1.53	5.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	-0.03	-0.02		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.01	0.00	0.00	0.00		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	54-2	2.14	2.22	2.65	2.33	11.66	ppb
Iron	56-2	2.19	2.20	2.31	2.23	3.00	ppb
Iron	57-2	2.77	1.69	2.28	2.25	24.06	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.03	0.03	0.03	15.79	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.02	0.02	0.02	10.21	ppb
Lead	208-1	0.03	0.03	0.03	0.03	3.88	ppb
Lithium	6-1				106		%
Magnesium	24-2	0.04	0.14	0.25	0.14	74.11	ppb
Manganese	55-2	-1.00	-1.04	-1.32	-1.12		ppb
Molybdenum	94-1	0.00	0.01	0.02	0.01	71.66	ppb
Molybdenum	95-1	0.00	-0.01	-0.01	0.00		ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	97-1	-0.01	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	0.20	0.22	0.13	0.18	24.59	ppb
Phosphorus	31-2	-14.02	-13.01	-17.83	-14.95		ppb
Potassium	39-2	6.20	9.48	6.89	7.52	22.96	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	0.06	0.12	-0.20	-0.01		ppb
Selenium	77-2	0.26	-0.14	-0.14	-0.01		ppb
Selenium	78-2	0.13	0.74	0.02	0.30	130.04	ppb
Silicon	28-1	-2.76	-3.09	-2.84	-2.90		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.19	ppb
Silver	109-1	0.01	0.01	0.01	0.01	7.39	ppb
Sodium	23-2	6.32	7.12	4.42	5.95	23.37	ppb
Strontium	86-1	0.00	0.00	0.00	0.00	750.57	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	36.56	ppb
Sulfur	34-1	-480.26	-533.91	-550.48	-521.55		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.01	0.01	0.01	0.01	8.75	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	12.75	ppb
Tin	118-1	0.03	0.02	0.03	0.03	23.54	ppb
Titanium	47-1	0.00	0.00	0.01	0.00	223.42	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	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				104		%
Yttrium	89-2				104		%
Zinc	66-2	0.07	0.04	0.03	0.04	51.06	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	21.02	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	23.68	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	96551.42	95218.88	96271.53	96013.94	0.73	ppb
Antimony	121-1	1.31	1.31	1.27	1.30	1.99	ppb
Arsenic	75-2	0.32	0.32	0.27	0.31	9.12	ppb
Barium	135-1	1.51	1.49	1.54	1.52	1.62	ppb
Barium	137-1	1.53	1.49	1.53	1.52	1.65	ppb
Beryllium	9-1	0.34	0.33	0.32	0.33	2.19	ppb
Bismuth	209-1				93		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	14.34	14.51	13.92	14.26	2.15	ppb
Cadmium	106-1	-0.12	-0.21	-0.58	-0.30		ppb
Cadmium	111-1	0.58	0.52	0.53	0.54	5.68	ppb
Calcium	43-1	103450.46	104217.63	103168.74	103612.28	0.52	ppb
Calcium	44-1	101926.40	102658.54	102910.58	102498.51	0.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.05	20.76	21.15	20.98	0.97	ppb
Cobalt	59-2	1.24	1.25	1.29	1.26	2.01	ppb
Copper	63-2	7.98	7.87	8.04	7.96	1.08	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	108722.99	106581.24	107867.09	107723.77	1.00	ppb
Iron	56-2	107136.38	106361.89	108110.24	107202.84	0.82	ppb
Iron	57-2	106906.20	106746.33	110001.73	107884.75	1.70	ppb
Krypton	83-1						cps
Lead	206-1	4.84	4.83	4.65	4.78	2.22	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.47	4.50	4.35	4.44	1.87	ppb
Lead	208-1	4.60	4.57	4.45	4.54	1.83	ppb
Lithium	6-1				97		%
Magnesium	24-2	101043.94	100447.87	100402.42	100631.41	0.36	ppb
Manganese	55-2	7.29	6.91	7.20	7.13	2.84	ppb
Molybdenum	94-1	1742.86	1691.15	1661.07	1698.36	2.44	ppb
Molybdenum	95-1	2112.85	2087.37	2066.79	2089.00	1.10	ppb
Molybdenum	96-1	2070.07	2038.18	2045.19	2051.15	0.82	ppb
Molybdenum	97-1	2134.23	2076.66	2068.48	2093.12	1.71	ppb
Molybdenum	98-1	2148.13	2045.97	2046.44	2080.18	2.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.95	6.10	6.02	6.02	1.25	ppb
Phosphorus	31-2	114089.25	112895.49	115340.21	114108.32	1.07	ppb
Potassium	39-2	102519.27	101827.15	104226.54	102857.65	1.20	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				102		%
Scandium	45-2				100		%
Selenium	82-1	0.13	0.14	-0.13	0.05	321.20	ppb
Selenium	77-2	-0.14	-0.14	-0.14	-0.14		ppb
Selenium	78-2	1.17	0.80	0.68	0.88	29.15	ppb
Silicon	28-1	21.51	22.24	21.89	21.88	1.66	ppb
Silver	107-1	0.03	0.04	0.05	0.04	24.73	ppb
Silver	109-1	0.04	0.04	0.05	0.04	17.63	ppb
Sodium	23-2	107635.94	106823.10	108248.87	107569.30	0.66	ppb
Strontium	86-1	35.47	34.92	35.02	35.14	0.83	ppb
Strontium	88-1	36.67	36.12	36.76	36.52	0.95	ppb
Sulfur	34-1	106466.81	107776.35	108337.38	107526.85	0.89	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.05	0.07	0.08	0.07	20.04	ppb
Thallium	205-1	0.06	0.08	0.08	0.07	17.38	ppb
Tin	118-1	0.20	0.18	0.17	0.18	6.93	ppb
Titanium	47-1	2119.32	2173.55	2155.91	2149.59	1.29	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	6.58	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.14	0.15	0.15	0.15	2.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	14.63	14.64	14.40	14.56	0.92	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	4.35	ppb
Zirconium	91-1	0.03	0.03	0.04	0.03	13.11	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	83313.43	82788.83	82258.39	82786.88	0.64	ppb
Antimony	121-1	18.88	19.02	18.90	18.93	0.40	ppb
Arsenic	75-2	19.04	18.61	18.97	18.87	1.21	ppb
Barium	135-1	19.33	19.26	19.52	19.37	0.68	ppb
Barium	137-1	19.28	19.42	19.53	19.41	0.65	ppb
Beryllium	9-1	20.44	20.86	20.61	20.64	1.03	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	27.28	27.40	28.05	27.58	1.49	ppb
Cadmium	106-1	14.24	13.51	14.46	14.07	3.56	ppb
Cadmium	111-1	18.10	18.25	18.33	18.23	0.65	ppb
Calcium	43-1	87927.32	89045.25	88160.73	88377.77	0.67	ppb
Calcium	44-1	87031.59	87757.72	88675.10	87821.47	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	35.89	36.00	35.51	35.80	0.72	ppb
Cobalt	59-2	18.96	19.34	19.35	19.22	1.17	ppb
Copper	63-2	24.51	24.62	24.48	24.54	0.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				97		%
Iron	54-2	90589.61	91861.36	91796.37	91415.78	0.78	ppb
Iron	56-2	91096.57	90927.89	91727.35	91250.60	0.46	ppb
Iron	57-2	91474.83	91485.42	92476.61	91812.29	0.63	ppb
Krypton	83-1						cps
Lead	206-1	21.85	21.60	22.09	21.85	1.13	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.34	21.19	21.80	21.44	1.46	ppb
Lead	208-1	21.47	21.15	21.75	21.46	1.41	ppb
Lithium	6-1				100		%
Magnesium	24-2	87452.86	88276.72	87188.64	87639.41	0.65	ppb
Manganese	55-2	22.71	23.55	23.56	23.27	2.11	ppb
Molybdenum	94-1	1416.36	1431.13	1424.33	1423.94	0.52	ppb
Molybdenum	95-1	1747.35	1750.47	1747.94	1748.59	0.09	ppb
Molybdenum	96-1	1717.19	1731.67	1701.12	1716.66	0.89	ppb
Molybdenum	97-1	1747.64	1750.23	1762.18	1753.35	0.44	ppb
Molybdenum	98-1	1714.80	1731.38	1738.53	1728.24	0.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	22.44	22.92	22.57	22.64	1.09	ppb
Phosphorus	31-2	97112.44	98220.11	97998.99	97777.18	0.60	ppb
Potassium	39-2	90019.73	89547.78	88544.07	89370.53	0.84	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	19.27	18.75	19.29	19.11	1.60	ppb
Selenium	77-2	15.08	26.42	19.58	20.36	28.05	ppb
Selenium	78-2	19.86	17.73	19.48	19.02	5.97	ppb
Silicon	28-1	20.03	20.56	20.98	20.52	2.33	ppb
Silver	107-1	17.05	17.27	17.04	17.12	0.75	ppb
Silver	109-1	17.18	17.37	17.41	17.32	0.70	ppb
Sodium	23-2	93545.11	93487.00	93793.44	93608.52	0.17	ppb
Strontium	86-1	29.45	29.76	29.67	29.63	0.53	ppb
Strontium	88-1	30.40	31.07	31.16	30.88	1.35	ppb
Sulfur	34-1	91932.22	93195.60	92628.89	92585.57	0.68	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	17.93	17.69	18.16	17.93	1.30	ppb
Thallium	205-1	17.84	17.89	18.31	18.01	1.45	ppb
Tin	118-1	0.18	0.17	0.17	0.17	1.87	ppb
Titanium	47-1	1807.03	1833.51	1812.07	1817.54	0.77	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	5.18	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	18.66	18.76	18.49	18.64	0.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				102		%
Zinc	66-2	29.63	29.98	30.28	29.96	1.09	ppb
Zirconium	90-1	0.02	0.03	0.03	0.02	16.75	ppb
Zirconium	91-1	0.03	0.03	0.04	0.03	13.26	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49309.28	48312.15	47532.91	48384.78	1.84	ppb
Antimony	121-1	501.02	509.79	509.73	506.85	1.00	ppb
Arsenic	75-2	490.25	498.62	491.99	493.62	0.89	ppb
Barium	135-1	2523.68	2561.45	2514.02	2533.05	0.99	ppb
Barium	137-1	2483.04	2486.90	2485.05	2485.00	0.08	ppb
Beryllium	9-1	521.44	533.33	516.81	523.86	1.63	ppb
Bismuth	209-1				87		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	493.98	504.09	497.33	498.47	1.03	ppb
Cadmium	106-1	491.90	499.38	503.32	498.20	1.16	ppb
Cadmium	111-1	487.71	505.83	491.86	495.14	1.92	ppb
Calcium	43-1	246216.13	243817.95	239712.34	243248.81	1.35	ppb
Calcium	44-1	241919.81	236672.01	243414.98	240668.94	1.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	495.12	496.21	486.31	492.55	1.10	ppb
Cobalt	59-2	479.59	475.39	471.06	475.35	0.90	ppb
Copper	63-2	4589.51	4548.18	4532.96	4556.88	0.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				92		%
Indium	115-2				90		%
Iron	54-2	122590.37	119738.46	118732.55	120353.79	1.66	ppb
Iron	56-2	116381.97	116687.05	117243.72	116770.91	0.37	ppb
Iron	57-2	118079.26	118047.50	116904.47	117677.08	0.57	ppb
Krypton	83-1						cps
Lead	206-1	2522.03	2464.82	2547.34	2511.40	1.68	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2575.31	2526.72	2530.86	2544.30	1.06	ppb
Lead	208-1	2555.15	2521.28	2511.80	2529.41	0.90	ppb
Lithium	6-1				93		%
Magnesium	24-2	250192.27	242663.38	240719.69	244525.11	2.05	ppb
Manganese	55-2	4880.64	4908.68	4790.95	4860.09	1.27	ppb
Molybdenum	94-1	4899.82	5022.81	4828.38	4917.00	2.00	ppb
Molybdenum	95-1	4921.78	5105.80	4857.13	4961.57	2.60	ppb
Molybdenum	96-1	5015.17	5086.98	4962.39	5021.51	1.25	ppb
Molybdenum	97-1	4984.06	5029.71	5014.82	5009.53	0.46	ppb
Molybdenum	98-1	4897.09	5005.78	4947.67	4950.18	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.32	463.32	434.84	453.83	3.62	ppb
Phosphorus	31-2	10352.18	10317.58	10226.09	10298.62	0.63	ppb
Potassium	39-2	123525.81	121952.71	121097.32	122191.95	1.01	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				103		%
Scandium	45-2				107		%
Selenium	82-1	485.73	491.86	479.57	485.72	1.27	ppb
Selenium	77-2	489.25	493.92	496.25	493.14	0.72	ppb
Selenium	78-2	486.02	488.54	475.45	483.34	1.44	ppb
Silicon	28-1	502.33	488.19	513.09	501.20	2.49	ppb
Silver	107-1	481.14	494.03	483.98	486.39	1.39	ppb
Silver	109-1	478.61	490.19	490.95	486.58	1.42	ppb
Sodium	23-2	248105.53	243654.82	247186.89	246315.75	0.95	ppb
Strontium	86-1	503.71	496.02	496.99	498.91	0.84	ppb
Strontium	88-1	493.67	508.44	497.42	499.84	1.54	ppb
Sulfur	34-1	10666.89	10197.54	9931.63	10265.35	3.63	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	500.00	491.71	507.03	499.58	1.54	ppb
Thallium	205-1	501.66	495.76	508.11	501.84	1.23	ppb
Tin	118-1	492.47	491.05	512.38	498.63	2.39	ppb
Titanium	47-1	5005.81	4899.93	4879.12	4928.28	1.38	ppb
Uranium	238-1	509.35	508.03	497.14	504.84	1.33	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	526.63	508.90	508.96	514.83	1.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	4597.31	4544.79	4609.59	4583.90	0.75	ppb
Zirconium	90-1	492.23	500.04	488.28	493.52	1.21	ppb
Zirconium	91-1	495.68	513.00	489.96	499.55	2.40	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.34	1.50	0.92	1.25	23.94	ppb
Antimony	121-1	0.11	0.10	0.09	0.10	12.90	ppb
Arsenic	75-2	-0.01	0.00	0.02	0.00	503.99	ppb
Barium	135-1	0.05	0.03	0.03	0.04	24.41	ppb
Barium	137-1	0.05	0.04	0.04	0.04	9.16	ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	12.51	ppb
Bismuth	209-1				104		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.07	0.02	0.04	55.62	ppb
Cadmium	106-1	0.00	0.54	0.33	0.29	93.69	ppb
Cadmium	111-1	0.02	0.06	0.04	0.04	48.40	ppb
Calcium	43-1	4.54	3.69	2.79	3.67	23.87	ppb
Calcium	44-1	10.88	7.88	8.87	9.21	16.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.00	0.00		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	9.52	ppb
Copper	63-2	0.12	0.12	0.09	0.11	13.64	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				105		%
Holmium	165-2				106		%
Indium	115-1				110		%
Indium	115-2				106		%
Iron	54-2	2.88	2.07	2.18	2.38	18.46	ppb
Iron	56-2	2.06	2.04	1.98	2.03	2.01	ppb
Iron	57-2	1.75	1.99	1.60	1.78	11.17	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.14	0.13	0.14	7.63	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.14	0.14	0.15	7.61	ppb
Lead	208-1	0.15	0.14	0.12	0.14	9.71	ppb
Lithium	6-1				105		%
Magnesium	24-2	4.53	4.64	4.04	4.40	7.21	ppb
Manganese	55-2	-8.31	-8.35	-8.34	-8.34		ppb
Molybdenum	94-1	0.24	0.22	0.19	0.22	12.20	ppb
Molybdenum	95-1	0.16	0.14	0.12	0.14	16.21	ppb
Molybdenum	96-1	0.17	0.15	0.12	0.14	16.27	ppb
Molybdenum	97-1	0.16	0.12	0.13	0.14	16.57	ppb
Molybdenum	98-1	0.16	0.13	0.12	0.14	15.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.00	-0.01	-0.01		ppb
Phosphorus	31-2	-21.38	-14.59	-16.44	-17.47		ppb
Potassium	39-2	34.33	30.95	31.02	32.10	6.01	ppb
Rhodium	103-1				108		%
Rhodium	103-2				106		%
Scandium	45-1				112		%
Scandium	45-2				111		%
Selenium	82-1	0.02	-0.13	0.11	0.00	181110.50	ppb
Selenium	77-2	0.25	-0.14	-0.14	-0.01		ppb
Selenium	78-2	0.81	0.24	1.36	0.80	70.33	ppb
Silicon	28-1	-1.10	-2.94	-2.20	-2.08		ppb
Silver	107-1	0.05	0.05	0.04	0.05	11.65	ppb
Silver	109-1	0.05	0.04	0.04	0.05	11.38	ppb
Sodium	23-2	37.42	36.26	35.55	36.41	2.59	ppb
Strontium	86-1	0.02	0.01	0.01	0.01	45.92	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	20.31	ppb
Sulfur	34-1	81.42	-130.33	17.63	-10.43		ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.06	0.06	0.06	0.06	0.87	ppb
Thallium	205-1	0.07	0.06	0.05	0.06	11.24	ppb
Tin	118-1	-0.01	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.18	0.15	0.12	0.15	19.77	ppb
Uranium	238-1	0.01	0.01	0.00	0.01	38.78	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.00	78.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				107		%
Zinc	66-2	0.29	0.27	0.27	0.27	3.92	ppb
Zirconium	90-1	0.06	0.05	0.05	0.05	11.40	ppb
Zirconium	91-1	0.06	0.05	0.05	0.05	7.95	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.87	22.04	20.65	21.52	3.51	ppb
Antimony	121-1	2.08	2.14	2.14	2.12	1.67	ppb
Arsenic	75-2	1.20	1.06	1.05	1.10	7.85	ppb
Barium	135-1	10.26	10.33	10.44	10.34	0.87	ppb
Barium	137-1	10.42	10.68	10.53	10.54	1.23	ppb
Beryllium	9-1	1.19	1.21	1.23	1.21	1.72	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.98	1.27	1.09	1.12	13.12	ppb
Cadmium	106-1	1.32	1.38	0.97	1.22	17.93	ppb
Cadmium	111-1	1.11	1.19	1.14	1.15	3.41	ppb
Calcium	43-1	510.83	530.88	534.44	525.38	2.42	ppb
Calcium	44-1	529.46	533.00	525.27	529.24	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.11	2.16	2.12	2.13	1.28	ppb
Cobalt	59-2	1.15	1.11	1.12	1.13	1.81	ppb
Copper	63-2	2.25	2.22	2.20	2.22	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				104		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	54-2	58.01	57.12	57.30	57.48	0.82	ppb
Iron	56-2	55.58	55.32	54.77	55.22	0.75	ppb
Iron	57-2	58.26	54.81	53.95	55.67	4.09	ppb
Krypton	83-1						cps
Lead	206-1	1.03	1.03	1.03	1.03	0.37	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.07	1.05	1.03	1.05	1.96	ppb
Lead	208-1	1.05	1.04	1.03	1.04	0.71	ppb
Lithium	6-1				104		%
Magnesium	24-2	565.27	567.05	559.61	563.98	0.69	ppb
Manganese	55-2	0.98	1.14	1.23	1.11	11.57	ppb
Molybdenum	94-1	6.08	6.01	6.14	6.08	1.08	ppb
Molybdenum	95-1	5.04	5.07	5.04	5.05	0.35	ppb
Molybdenum	96-1	5.17	5.23	5.25	5.22	0.88	ppb
Molybdenum	97-1	5.26	5.08	5.04	5.13	2.31	ppb
Molybdenum	98-1	5.01	5.11	5.08	5.07	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.15	1.03	1.07	1.08	5.89	ppb
Phosphorus	31-2	17.45	18.53	20.46	18.81	8.11	ppb
Potassium	39-2	551.58	549.31	553.84	551.58	0.41	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				112		%
Scandium	45-2				109		%
Selenium	82-1	5.35	5.30	5.62	5.42	3.22	ppb
Selenium	77-2	8.78	7.62	4.53	6.98	31.47	ppb
Selenium	78-2	7.14	5.76	6.70	6.53	10.79	ppb
Silicon	28-1	3.98	4.37	4.21	4.19	4.71	ppb
Silver	107-1	1.08	1.08	1.10	1.08	1.05	ppb
Silver	109-1	1.06	1.07	1.09	1.07	1.37	ppb
Sodium	23-2	585.19	594.67	593.65	591.17	0.88	ppb
Strontium	86-1	1.02	1.05	1.03	1.03	1.67	ppb
Strontium	88-1	1.03	1.05	1.05	1.04	0.92	ppb
Sulfur	34-1	165.39	132.33	141.18	146.30	11.70	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	1.03	1.02	1.01	1.02	0.84	ppb
Thallium	205-1	1.02	1.02	1.01	1.01	0.72	ppb
Tin	118-1	5.28	5.43	5.24	5.31	1.91	ppb
Titanium	47-1	5.12	5.16	5.24	5.17	1.19	ppb
Uranium	238-1	0.96	0.95	0.94	0.95	0.79	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.35	5.56	5.38	5.43	2.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	5.51	5.49	5.61	5.54	1.24	ppb
Zirconium	90-1	1.03	1.05	1.03	1.04	1.20	ppb
Zirconium	91-1	1.01	1.06	1.06	1.04	2.54	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1712.37	1711.76	1671.02	1698.38	1.40	ppb
Antimony	121-1	0.01	0.02	0.01	0.01	16.06	ppb
Arsenic	75-2	0.14	0.15	0.20	0.16	20.66	ppb
Barium	135-1	4.74	4.88	4.71	4.78	1.96	ppb
Barium	137-1	4.73	4.89	4.71	4.78	2.10	ppb
Beryllium	9-1	0.03	0.03	0.04	0.03	8.77	ppb
Bismuth	209-1				103		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.05	0.04	0.04	29.19	ppb
Cadmium	106-1	0.40	0.66	0.47	0.51	26.16	ppb
Cadmium	111-1	0.05	0.07	0.05	0.06	22.07	ppb
Calcium	43-1	7105.49	7093.56	6830.23	7009.76	2.22	ppb
Calcium	44-1	7084.32	6958.61	6911.82	6984.92	1.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.35	0.37	0.35	0.36	2.63	ppb
Cobalt	59-2	5.16	5.29	5.15	5.20	1.48	ppb
Copper	63-2	5.10	5.02	5.16	5.09	1.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				105		%
Indium	115-1				110		%
Indium	115-2				104		%
Iron	54-2	14195.00	14433.26	13820.87	14149.71	2.18	ppb
Iron	56-2	13982.01	14244.57	13600.89	13942.49	2.32	ppb
Iron	57-2	14148.73	14330.65	14366.05	14281.81	0.82	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.08	0.09	5.45	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.10	0.10	0.09	11.66	ppb
Lead	208-1	0.08	0.09	0.09	0.09	3.72	ppb
Lithium	6-1				107		%
Magnesium	24-2	3464.22	3523.37	3446.24	3477.94	1.16	ppb
Manganese	55-2	192.15	194.29	191.75	192.73	0.71	ppb
Molybdenum	94-1	0.06	0.06	0.06	0.06	1.59	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.02	13.76	ppb
Molybdenum	96-1	0.08	0.07	0.08	0.08	6.24	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	13.61	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.02	4.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.93	3.87	3.75	3.85	2.50	ppb
Phosphorus	31-2	-4.62	-11.76	3.08	-4.44		ppb
Potassium	39-2	142.83	142.83	138.41	141.36	1.81	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				114		%
Scandium	45-2				111		%
Selenium	82-1	0.09	0.16	0.21	0.16	36.68	ppb
Selenium	77-2	3.92	5.72	4.26	4.63	20.72	ppb
Selenium	78-2	1.40	1.17	1.39	1.32	9.78	ppb
Silicon	28-1	2176.47	2134.97	2052.91	2121.45	2.96	ppb
Silver	107-1	0.01	0.01	0.01	0.01	11.37	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.99	ppb
Sodium	23-2	1925.62	1885.96	1902.23	1904.60	1.05	ppb
Strontium	86-1	17.94	17.76	17.84	17.85	0.49	ppb
Strontium	88-1	19.12	18.51	18.96	18.86	1.69	ppb
Sulfur	34-1	16488.84	15895.31	14998.02	15794.06	4.75	ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.03	0.03	0.03	0.03	5.81	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.62	ppb
Tin	118-1	0.03	0.03	0.03	0.03	3.98	ppb
Titanium	47-1	0.23	0.23	0.22	0.22	2.89	ppb
Uranium	238-1	0.22	0.22	0.22	0.22	2.21	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.76	9.89	9.77	9.81	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				112		%
Zinc	66-2	35.64	35.91	35.13	35.56	1.11	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	4.73	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	4.32	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1750.93	1760.81	1722.16	1744.63	1.15	ppb
Antimony	121-1	1.41	1.40	1.40	1.40	0.25	ppb
Arsenic	75-2	0.44	0.46	0.43	0.44	3.56	ppb
Barium	135-1	12.73	12.64	12.49	12.62	0.96	ppb
Barium	137-1	12.86	12.64	12.55	12.68	1.23	ppb
Beryllium	9-1	0.20	0.18	0.20	0.19	5.69	ppb
Bismuth	209-1				104		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.16	0.16	0.23	0.18	23.39	ppb
Cadmium	106-1	0.68	0.66	0.33	0.56	35.14	ppb
Cadmium	111-1	0.20	0.19	0.18	0.19	7.11	ppb
Calcium	43-1	33547.41	34184.45	34393.75	34041.87	1.29	ppb
Calcium	44-1	33343.30	33669.20	33822.74	33611.75	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.29	0.29	0.29	0.29	0.34	ppb
Cobalt	59-2	12.79	12.65	12.74	12.73	0.54	ppb
Copper	63-2	8.94	8.87	9.11	8.97	1.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				109		%
Indium	115-2				102		%
Iron	54-2	29699.91	30137.51	30420.47	30085.97	1.21	ppb
Iron	56-2	29920.72	29770.15	29772.99	29821.29	0.29	ppb
Iron	57-2	29970.05	30168.95	30230.83	30123.28	0.45	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.44	0.43	0.44	1.87	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.45	0.48	0.43	0.45	6.27	ppb
Lead	208-1	0.44	0.46	0.43	0.44	3.08	ppb
Lithium	6-1				105		%
Magnesium	24-2	6744.06	6701.43	6784.13	6743.21	0.61	ppb
Manganese	55-2	754.68	783.93	779.83	772.81	2.05	ppb
Molybdenum	94-1	0.11	0.13	0.16	0.14	19.62	ppb
Molybdenum	95-1	0.05	0.04	0.05	0.05	7.12	ppb
Molybdenum	96-1	0.15	0.16	0.16	0.15	3.84	ppb
Molybdenum	97-1	0.04	0.05	0.05	0.05	9.66	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	4.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.02	6.06	5.99	6.02	0.61	ppb
Phosphorus	31-2	5.44	22.87	-2.32	8.66	148.96	ppb
Potassium	39-2	374.00	370.96	366.83	370.59	0.97	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				109		%
Selenium	82-1	0.33	0.29	0.40	0.34	16.04	ppb
Selenium	77-2	5.29	9.33	7.47	7.36	27.49	ppb
Selenium	78-2	2.87	2.13	3.19	2.73	19.86	ppb
Silicon	28-1	5000.02	4861.89	4902.58	4921.50	1.44	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.30	ppb
Silver	109-1	0.02	0.02	0.02	0.02	4.65	ppb
Sodium	23-2	7490.81	7371.03	7385.83	7415.89	0.88	ppb
Strontium	86-1	53.14	52.78	54.13	53.35	1.31	ppb
Strontium	88-1	55.38	56.51	56.75	56.21	1.30	ppb
Sulfur	34-1	43883.46	43709.32	43172.68	43588.49	0.85	ppb
Terbium	159-1				108		%
Terbium	159-2				101		%
Thallium	203-1	0.08	0.08	0.08	0.08	2.09	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	1.82	ppb
Tin	118-1	0.16	0.15	0.15	0.15	4.16	ppb
Titanium	47-1	0.44	0.43	0.48	0.45	6.07	ppb
Uranium	238-1	0.43	0.44	0.43	0.44	1.82	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.74	5.56	5.74	5.68	1.80	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				113		%
Zinc	66-2	88.39	88.76	89.39	88.85	0.57	ppb
Zirconium	90-1	0.04	0.05	0.05	0.05	10.87	ppb
Zirconium	91-1	0.03	0.05	0.05	0.05	22.96	ppb

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2260.06	2280.07	2232.17	2257.43	1.07	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	4.01	ppb
Arsenic	75-2	0.27	0.32	0.27	0.28	10.64	ppb
Barium	135-1	12.21	12.26	12.45	12.31	1.00	ppb
Barium	137-1	12.25	12.27	12.45	12.32	0.88	ppb
Beryllium	9-1	0.10	0.10	0.09	0.10	6.95	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.08	0.10	0.08	23.82	ppb
Cadmium	106-1	0.27	0.40	0.37	0.35	19.21	ppb
Cadmium	111-1	0.07	0.08	0.07	0.07	6.15	ppb
Calcium	43-1	30407.40	32068.55	31471.61	31315.85	2.69	ppb
Calcium	44-1	30431.43	31569.26	31079.71	31026.80	1.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.24	0.26	0.22	0.24	7.68	ppb
Cobalt	59-2	11.84	12.14	11.75	11.91	1.75	ppb
Copper	63-2	9.55	9.72	9.32	9.53	2.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				103		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	30070.02	31154.76	29561.21	30261.99	2.69	ppb
Iron	56-2	30005.14	30767.17	29713.52	30161.94	1.80	ppb
Iron	57-2	30297.90	30872.66	29946.79	30372.45	1.54	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.12	0.13	0.13	9.80	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.13	0.13	0.13	3.51	ppb
Lead	208-1	0.13	0.12	0.12	0.12	2.84	ppb
Lithium	6-1				102		%
Magnesium	24-2	6858.68	6952.50	6717.98	6843.05	1.72	ppb
Manganese	55-2	712.08	727.78	694.29	711.38	2.36	ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	6.05	ppb
Molybdenum	95-1	0.02	0.02	0.03	0.02	18.14	ppb
Molybdenum	96-1	0.13	0.13	0.12	0.13	3.20	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	12.79	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	7.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.66	5.86	5.72	5.75	1.78	ppb
Phosphorus	31-2	-18.56	-17.97	-17.87	-18.13		ppb
Potassium	39-2	293.97	300.40	292.21	295.53	1.46	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				114		%
Scandium	45-2				111		%
Selenium	82-1	0.17	0.22	0.03	0.14	68.50	ppb
Selenium	77-2	5.65	12.54	5.32	7.84	52.02	ppb
Selenium	78-2	2.65	3.09	2.99	2.91	7.82	ppb
Silicon	28-1	4892.10	5034.39	4967.29	4964.59	1.43	ppb
Silver	107-1	0.00	0.00	0.00	0.00	3.73	ppb
Silver	109-1	0.00	0.00	0.01	0.01	18.28	ppb
Sodium	23-2	5959.90	6020.27	5922.38	5967.52	0.83	ppb
Strontium	86-1	50.99	50.94	51.23	51.05	0.30	ppb
Strontium	88-1	52.12	54.28	53.76	53.39	2.11	ppb
Sulfur	34-1	42103.58	42480.72	41447.24	42010.51	1.24	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.02	0.02	10.68	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	8.27	ppb
Tin	118-1	0.02	0.03	0.03	0.03	22.29	ppb
Titanium	47-1	0.41	0.43	0.41	0.42	1.98	ppb
Uranium	238-1	0.42	0.42	0.42	0.42	0.68	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	8.35	8.42	8.32	8.36	0.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				120		%
Yttrium	89-2				113		%
Zinc	66-2	72.40	73.84	72.61	72.95	1.06	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	4.81	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	6.81	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1847.18	1867.84	1827.77	1847.60	1.08	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	14.67	ppb
Arsenic	75-2	0.25	0.26	0.20	0.24	13.52	ppb
Barium	135-1	11.60	11.78	11.50	11.63	1.23	ppb
Barium	137-1	11.60	11.89	11.76	11.75	1.25	ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	4.13	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.03	0.01	0.03	72.77	ppb
Cadmium	106-1	0.28	0.53	0.01	0.27	96.90	ppb
Cadmium	111-1	0.05	0.08	0.04	0.06	37.78	ppb
Calcium	43-1	35394.69	35138.23	35387.67	35306.86	0.41	ppb
Calcium	44-1	34571.78	34460.52	34277.80	34436.70	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.30	0.28	0.30	0.30	3.51	ppb
Cobalt	59-2	10.23	10.32	10.01	10.19	1.57	ppb
Copper	63-2	5.93	5.77	5.73	5.81	1.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				103		%
Indium	115-1				109		%
Indium	115-2				102		%
Iron	54-2	29768.63	29023.82	29157.50	29316.65	1.35	ppb
Iron	56-2	28679.52	28970.27	28864.33	28838.04	0.51	ppb
Iron	57-2	29410.81	29446.30	28892.25	29249.79	1.06	ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.12	0.12	0.12	3.02	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.12	0.11	0.12	6.21	ppb
Lead	208-1	0.12	0.12	0.12	0.12	1.37	ppb
Lithium	6-1				101		%
Magnesium	24-2	8216.35	8249.42	8135.70	8200.49	0.71	ppb
Manganese	55-2	747.92	752.51	747.78	749.40	0.36	ppb
Molybdenum	94-1	0.06	0.07	0.08	0.07	12.39	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.98	ppb
Molybdenum	96-1	0.14	0.13	0.14	0.13	5.38	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.02	8.05	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	5.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.18	9.12	9.05	9.11	0.71	ppb
Phosphorus	31-2	-16.88	-13.14	-14.47	-14.83		ppb
Potassium	39-2	310.07	311.83	311.19	311.03	0.29	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				111		%
Selenium	82-1	0.24	0.35	0.08	0.22	59.13	ppb
Selenium	77-2	11.10	10.07	6.09	9.09	29.13	ppb
Selenium	78-2	1.69	1.59	3.13	2.14	40.13	ppb
Silicon	28-1	4505.45	4598.58	4562.84	4555.63	1.03	ppb
Silver	107-1	0.00	0.00	0.00	0.00	19.91	ppb
Silver	109-1	0.00	0.00	0.00	0.00	37.32	ppb
Sodium	23-2	8092.18	8158.32	8036.23	8095.58	0.75	ppb
Strontium	86-1	49.57	51.72	51.73	51.01	2.45	ppb
Strontium	88-1	53.07	53.47	52.70	53.08	0.73	ppb
Sulfur	34-1	45049.10	46003.98	46069.51	45707.53	1.25	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.01	0.02	0.01	0.01	18.90	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.13	ppb
Tin	118-1	0.03	0.03	0.03	0.03	7.36	ppb
Titanium	47-1	1.21	1.16	1.21	1.20	2.58	ppb
Uranium	238-1	0.36	0.37	0.37	0.37	0.86	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	16.88	16.94	16.62	16.81	1.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	70.68	70.71	69.40	70.26	1.06	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	9.60	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	12.85	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	662.68	665.61	655.00	661.09	0.83	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	27.15	ppb
Arsenic	75-2	0.16	0.16	0.18	0.17	7.65	ppb
Barium	135-1	11.36	11.89	12.01	11.75	2.95	ppb
Barium	137-1	11.45	11.80	12.05	11.77	2.55	ppb
Beryllium	9-1	0.06	0.06	0.05	0.06	6.95	ppb
Bismuth	209-1				102		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.08	0.06	0.07	19.19	ppb
Cadmium	106-1	0.18	0.20	0.30	0.23	28.72	ppb
Cadmium	111-1	0.06	0.07	0.07	0.07	7.44	ppb
Calcium	43-1	38206.08	38000.58	36955.24	37720.63	1.78	ppb
Calcium	44-1	37629.95	38187.19	36796.11	37537.75	1.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.16	0.11	0.11	0.13	20.90	ppb
Cobalt	59-2	20.05	19.41	19.65	19.70	1.64	ppb
Copper	63-2	4.88	4.73	4.77	4.80	1.60	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				106		%
Holmium	165-2				104		%
Indium	115-1				111		%
Indium	115-2				103		%
Iron	54-2	21746.25	21718.19	21880.30	21781.58	0.40	ppb
Iron	56-2	21721.69	21159.80	21223.56	21368.35	1.44	ppb
Iron	57-2	22086.89	21793.66	22095.73	21992.09	0.78	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.06	0.07	0.07	8.10	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.07	0.06	0.07	1.35	ppb
Lead	208-1	0.06	0.06	0.06	0.06	4.27	ppb
Lithium	6-1				98		%
Magnesium	24-2	6482.44	6312.10	6284.16	6359.57	1.69	ppb
Manganese	55-2	1215.96	1185.60	1182.25	1194.61	1.55	ppb
Molybdenum	94-1	0.05	0.05	0.06	0.06	7.96	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	7.97	ppb
Molybdenum	96-1	0.10	0.10	0.10	0.10	0.31	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	14.96	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	14.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.34	7.20	7.35	7.30	1.11	ppb
Phosphorus	31-2	-21.42	-18.52	-15.79	-18.58		ppb
Potassium	39-2	327.69	321.14	323.23	324.02	1.03	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				114		%
Scandium	45-2				111		%
Selenium	82-1	0.07	-0.01	0.27	0.11	133.57	ppb
Selenium	77-2	5.03	8.30	4.65	5.99	33.42	ppb
Selenium	78-2	1.73	1.17	1.73	1.54	20.86	ppb
Silicon	28-1	4168.81	4158.03	4035.95	4120.93	1.79	ppb
Silver	107-1	0.00	0.00	0.00	0.00	30.04	ppb
Silver	109-1	0.00	0.00	0.00	0.00	18.46	ppb
Sodium	23-2	5909.74	5783.93	5790.57	5828.08	1.21	ppb
Strontium	86-1	65.71	65.46	64.22	65.13	1.23	ppb
Strontium	88-1	68.17	69.07	67.11	68.11	1.44	ppb
Sulfur	34-1	40938.46	40243.50	39093.01	40091.66	2.32	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	4.02	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	9.94	ppb
Tin	118-1	0.03	0.04	0.03	0.04	21.18	ppb
Titanium	47-1	0.35	0.33	0.36	0.35	4.30	ppb
Uranium	238-1	0.24	0.25	0.25	0.24	1.66	ppb

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.50	1.44	1.46	1.47	2.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	78.05	76.36	77.87	77.42	1.20	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	8.43	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	13.89	ppb

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	695.75	671.37	663.40	676.84	2.49	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	24.00	ppb
Arsenic	75-2	0.25	0.21	0.23	0.23	8.25	ppb
Barium	135-1	11.80	12.66	17.59	14.02	22.29	ppb
Barium	137-1	11.85	12.50	18.04	14.13	24.05	ppb
Beryllium	9-1	0.06	0.06	0.10	0.07	30.71	ppb
Bismuth	209-1				89		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.09	0.11	0.09	14.60	ppb
Cadmium	106-1	-0.02	0.51	0.58	0.36	92.26	ppb
Cadmium	111-1	0.06	0.10	0.12	0.09	33.89	ppb
Calcium	43-1	37405.41	39643.03	58179.22	45075.88	25.30	ppb
Calcium	44-1	36484.62	38494.82	56920.66	43966.70	25.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.10	0.11	0.10	7.89	ppb
Cobalt	59-2	20.33	20.03	20.45	20.27	1.07	ppb
Copper	63-2	4.87	4.88	4.89	4.88	0.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				101		%
Indium	115-1				95		%
Indium	115-2				100		%
Iron	54-2	22512.96	21973.82	22222.77	22236.52	1.21	ppb
Iron	56-2	21748.85	21718.95	22131.44	21866.41	1.05	ppb
Iron	57-2	22479.04	22523.93	22325.39	22442.79	0.46	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.09	0.15	0.11	31.61	ppb

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.10	0.13	0.11	22.62	ppb
Lead	208-1	0.08	0.10	0.14	0.11	27.32	ppb
Lithium	6-1				83		%
Magnesium	24-2	6651.03	6563.02	6524.54	6579.53	0.99	ppb
Manganese	55-2	1218.40	1211.60	1219.88	1216.63	0.36	ppb
Molybdenum	94-1	0.04	0.05	0.08	0.06	39.39	ppb
Molybdenum	95-1	0.02	0.03	0.03	0.03	29.02	ppb
Molybdenum	96-1	0.10	0.10	0.15	0.11	27.04	ppb
Molybdenum	97-1	0.01	0.01	0.02	0.02	47.41	ppb
Molybdenum	98-1	0.01	0.01	0.02	0.01	40.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.26	7.40	7.49	7.39	1.55	ppb
Phosphorus	31-2	-20.67	-27.03	-23.40	-23.70		ppb
Potassium	39-2	343.00	333.84	338.29	338.38	1.35	ppb
Rhodium	103-1				92		%
Rhodium	103-2				101		%
Scandium	45-1				100		%
Scandium	45-2				108		%
Selenium	82-1	0.07	0.13	0.28	0.16	67.91	ppb
Selenium	77-2	6.76	5.81	7.50	6.69	12.64	ppb
Selenium	78-2	2.05	2.19	1.92	2.05	6.49	ppb
Silicon	28-1	4036.83	4107.33	6352.48	4832.21	27.26	ppb
Silver	107-1	0.00	0.00	0.00	0.00	33.62	ppb
Silver	109-1	0.00	0.00	0.00	0.00	26.86	ppb
Sodium	23-2	6041.58	5953.11	5961.94	5985.54	0.81	ppb
Strontium	86-1	64.65	67.49	93.75	75.30	21.31	ppb
Strontium	88-1	66.97	70.97	97.03	78.32	20.84	ppb
Sulfur	34-1	39421.41	41378.25	63686.36	48162.01	27.99	ppb
Terbium	159-1				92		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.02	0.01	21.09	ppb
Thallium	205-1	0.01	0.01	0.02	0.01	37.76	ppb
Tin	118-1	0.03	0.05	0.12	0.07	74.21	ppb
Titanium	47-1	0.36	0.32	0.52	0.40	26.13	ppb
Uranium	238-1	0.23	0.26	0.36	0.29	24.40	ppb

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.49	1.45	1.57	1.50	4.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				109		%
Zinc	66-2	80.30	78.57	79.85	79.57	1.12	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	41.25	ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	34.97	ppb

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	134.54	136.30	133.47	134.77	1.06	ppb
Antimony	121-1	0.16	0.15	0.16	0.16	0.83	ppb
Arsenic	75-2	0.03	0.03	0.04	0.03	16.10	ppb
Barium	135-1	2.45	2.45	2.43	2.44	0.48	ppb
Barium	137-1	2.38	2.41	2.44	2.41	1.24	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	29.59	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.08	0.03	0.05	47.62	ppb
Cadmium	106-1	0.04	0.16	0.01	0.07	111.70	ppb
Cadmium	111-1	0.01	0.02	0.01	0.01	54.77	ppb
Calcium	43-1	7664.31	7867.14	7799.31	7776.92	1.33	ppb
Calcium	44-1	7690.12	7739.83	7760.98	7730.31	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.04	0.04	0.04	19.88	ppb
Cobalt	59-2	4.11	4.08	4.06	4.08	0.72	ppb
Copper	63-2	1.02	0.97	0.99	0.99	2.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				105		%
Iron	54-2	4379.90	4322.29	4301.26	4334.48	0.94	ppb
Iron	56-2	4434.50	4386.45	4275.64	4365.53	1.87	ppb
Iron	57-2	4305.02	4273.16	4223.90	4267.36	0.96	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.03	0.02	0.02	9.10	ppb

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.02	0.03	11.97	ppb
Lead	208-1	0.02	0.02	0.02	0.02	14.52	ppb
Lithium	6-1				93		%
Magnesium	24-2	1306.13	1288.19	1295.59	1296.64	0.70	ppb
Manganese	55-2	236.17	235.31	231.45	234.31	1.07	ppb
Molybdenum	94-1	0.02	0.03	0.03	0.02	9.30	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	7.83	ppb
Molybdenum	96-1	0.02	0.02	0.02	0.02	15.91	ppb
Molybdenum	97-1	0.01	0.00	0.00	0.00	107.20	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	143.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.53	1.48	1.49	1.50	1.76	ppb
Phosphorus	31-2	-21.79	-23.14	-10.10	-18.34		ppb
Potassium	39-2	91.69	92.72	91.70	92.04	0.64	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				114		%
Scandium	45-2				112		%
Selenium	82-1	0.07	0.17	0.02	0.09	91.33	ppb
Selenium	77-2	0.62	1.00	1.39	1.00	38.56	ppb
Selenium	78-2	-0.01	0.67	1.13	0.60	95.88	ppb
Silicon	28-1	824.29	864.83	839.52	842.88	2.43	ppb
Silver	107-1	0.00	0.00	0.00	0.00	89.84	ppb
Silver	109-1	0.00	0.00	0.00	0.00	8.60	ppb
Sodium	23-2	1222.18	1206.47	1214.64	1214.43	0.65	ppb
Strontium	86-1	13.97	13.77	14.11	13.95	1.24	ppb
Strontium	88-1	14.28	13.84	13.96	14.03	1.62	ppb
Sulfur	34-1	7863.18	8415.07	8227.99	8168.75	3.44	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.00	0.01	0.01	0.01	32.69	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	14.57	ppb
Tin	118-1	0.01	0.02	0.02	0.01	22.56	ppb
Titanium	47-1	0.10	0.10	0.09	0.10	10.90	ppb
Uranium	238-1	0.05	0.05	0.05	0.05	2.87	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.33	0.29	0.27	0.30	9.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				108		%
Zinc	66-2	15.96	16.06	15.74	15.92	1.02	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	34.65	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	8.33	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49322.88	49586.54	48687.18	49198.87	0.94	ppb
Antimony	121-1	522.54	529.94	522.36	524.95	0.82	ppb
Arsenic	75-2	511.90	513.76	514.45	513.37	0.26	ppb
Barium	135-1	2622.71	2619.39	2562.08	2601.39	1.31	ppb
Barium	137-1	2641.48	2634.52	2542.39	2606.13	2.12	ppb
Beryllium	9-1	575.43	524.12	532.92	544.16	5.04	ppb
Bismuth	209-1				85		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	518.86	517.68	506.07	514.20	1.37	ppb
Cadmium	106-1	515.53	523.99	510.74	516.76	1.30	ppb
Cadmium	111-1	535.23	522.45	502.23	519.97	3.20	ppb
Calcium	43-1	251295.19	252891.80	249605.76	251264.25	0.65	ppb
Calcium	44-1	250154.97	249198.06	244339.44	247897.49	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.12	512.61	506.92	509.88	0.56	ppb
Cobalt	59-2	489.26	492.31	487.56	489.71	0.49	ppb
Copper	63-2	4557.50	4679.01	4684.99	4640.50	1.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				98		%
Indium	115-1				92		%
Indium	115-2				86		%
Iron	54-2	120272.29	121636.70	120830.73	120913.24	0.57	ppb
Iron	56-2	118812.07	121457.99	119456.05	119908.71	1.15	ppb
Iron	57-2	121191.27	123075.03	121051.56	121772.62	0.93	ppb
Krypton	83-1						cps
Lead	206-1	2566.54	2545.48	2546.45	2552.82	0.47	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2579.68	2551.69	2548.94	2560.11	0.66	ppb
Lead	208-1	2576.04	2528.17	2537.98	2547.40	0.99	ppb
Lithium	6-1				87		%
Magnesium	24-2	254971.59	256099.71	252277.76	254449.69	0.77	ppb
Manganese	55-2	5014.27	5024.50	4989.81	5009.53	0.36	ppb
Molybdenum	94-1	5043.57	4952.06	5015.74	5003.79	0.94	ppb
Molybdenum	95-1	5110.02	4860.72	5022.71	4997.82	2.53	ppb
Molybdenum	96-1	5042.24	4871.97	5018.02	4977.41	1.85	ppb
Molybdenum	97-1	5019.98	4949.09	4984.14	4984.40	0.71	ppb
Molybdenum	98-1	4991.50	4973.03	5044.55	5003.03	0.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	469.15	488.23	479.14	478.84	1.99	ppb
Phosphorus	31-2	10476.68	10477.65	10487.09	10480.47	0.05	ppb
Potassium	39-2	123261.86	121918.99	122325.58	122502.14	0.56	ppb
Rhodium	103-1				88		%
Rhodium	103-2				88		%
Scandium	45-1				101		%
Scandium	45-2				106		%
Selenium	82-1	495.85	475.78	482.28	484.64	2.11	ppb
Selenium	77-2	490.80	515.34	485.65	497.26	3.19	ppb
Selenium	78-2	502.09	517.58	507.42	509.03	1.55	ppb
Silicon	28-1	522.57	530.36	522.05	524.99	0.89	ppb
Silver	107-1	504.99	506.79	502.29	504.69	0.45	ppb
Silver	109-1	509.79	504.75	487.27	500.60	2.36	ppb
Sodium	23-2	257147.68	258883.16	257009.78	257680.21	0.41	ppb
Strontium	86-1	509.98	501.94	508.76	506.89	0.86	ppb
Strontium	88-1	511.69	500.25	497.58	503.17	1.49	ppb
Sulfur	34-1	11552.93	11132.86	10800.39	11162.06	3.38	ppb
Terbium	159-1				96		%
Terbium	159-2				94		%
Thallium	203-1	510.87	511.27	516.65	512.93	0.63	ppb
Thallium	205-1	515.45	509.86	508.84	511.38	0.70	ppb
Tin	118-1	528.13	522.86	518.36	523.12	0.94	ppb
Titanium	47-1	5119.56	5220.87	5053.09	5131.17	1.65	ppb
Uranium	238-1	517.61	509.26	508.70	511.86	0.97	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	518.90	513.98	515.26	516.05	0.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	4560.38	4663.47	4693.01	4638.95	1.50	ppb
Zirconium	90-1	511.20	499.17	501.92	504.09	1.25	ppb
Zirconium	91-1	512.04	498.68	507.35	506.02	1.34	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.55	0.84	0.91	1.10	35.75	ppb
Antimony	121-1	0.07	0.06	0.04	0.06	26.59	ppb
Arsenic	75-2	-0.02	-0.02	-0.02	-0.02		ppb
Barium	135-1	0.03	0.02	0.03	0.03	15.92	ppb
Barium	137-1	0.03	0.02	0.02	0.03	12.93	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	12.37	ppb
Bismuth	209-1				100		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.02	0.00	0.03	128.57	ppb
Cadmium	106-1	0.37	0.14	0.31	0.27	44.28	ppb
Cadmium	111-1	0.04	0.02	0.03	0.03	27.58	ppb
Calcium	43-1	1.69	1.24	1.90	1.61	20.93	ppb
Calcium	44-1	7.20	6.72	8.15	7.36	9.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	-0.02	0.00	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	3.62	ppb
Copper	63-2	0.05	0.05	0.07	0.06	19.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				105		%
Indium	115-1				106		%
Indium	115-2				104		%
Iron	54-2	1.20	1.27	1.81	1.43	23.29	ppb
Iron	56-2	1.29	1.21	1.11	1.20	7.69	ppb
Iron	57-2	1.80	1.56	1.18	1.51	20.46	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.08	0.08	0.08	8.30	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.09	0.09	2.49	ppb
Lead	208-1	0.09	0.08	0.08	0.08	5.77	ppb
Lithium	6-1				101		%
Magnesium	24-2	3.39	3.47	3.06	3.31	6.47	ppb
Manganese	55-2	-8.32	-8.38	-8.36	-8.35		ppb
Molybdenum	94-1	0.15	0.14	0.15	0.15	3.93	ppb
Molybdenum	95-1	0.09	0.08	0.07	0.08	12.10	ppb
Molybdenum	96-1	0.08	0.08	0.08	0.08	3.99	ppb
Molybdenum	97-1	0.08	0.06	0.06	0.07	15.61	ppb
Molybdenum	98-1	0.08	0.07	0.06	0.07	12.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	0.01	0.00	160.60	ppb
Phosphorus	31-2	-22.56	-19.60	-22.34	-21.50		ppb
Potassium	39-2	37.17	37.15	34.13	36.15	4.84	ppb
Rhodium	103-1				103		%
Rhodium	103-2				107		%
Scandium	45-1				111		%
Scandium	45-2				111		%
Selenium	82-1	0.13	-0.09	0.05	0.03	365.25	ppb
Selenium	77-2	-0.14	-0.14	0.25	-0.01		ppb
Selenium	78-2	0.46	0.24	0.70	0.47	50.13	ppb
Silicon	28-1	-3.92	-3.52	-2.10	-3.18		ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.23	ppb
Silver	109-1	0.02	0.02	0.02	0.02	5.65	ppb
Sodium	23-2	41.41	37.79	36.29	38.49	6.83	ppb
Strontium	86-1	0.01	0.02	0.02	0.01	25.61	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	18.80	ppb
Sulfur	34-1	28.99	47.51	374.25	150.25	129.26	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.03	0.02	0.03	0.03	8.78	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.22	ppb
Tin	118-1	0.00	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.09	0.07	0.10	0.09	21.50	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	32.88	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	63.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				106		%
Zinc	66-2	0.18	0.27	0.20	0.22	21.61	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	3.13	ppb
Zirconium	91-1	0.05	0.03	0.04	0.04	15.82	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1607.31	1602.19	1603.40	1604.30	0.17	ppb
Antimony	121-1	50.39	51.17	51.41	50.99	1.04	ppb
Arsenic	75-2	0.22	0.24	0.21	0.22	6.86	ppb
Barium	135-1	247.14	252.07	250.61	249.94	1.01	ppb
Barium	137-1	246.28	251.11	249.44	248.94	0.99	ppb
Beryllium	9-1	56.96	56.11	53.49	55.52	3.25	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	51.59	52.17	50.89	51.55	1.24	ppb
Cadmium	106-1	52.62	54.32	54.37	53.77	1.85	ppb
Cadmium	111-1	51.41	52.10	52.61	52.04	1.16	ppb
Calcium	43-1	42208.58	42819.90	43072.71	42700.40	1.04	ppb
Calcium	44-1	41986.02	41417.69	41503.28	41635.66	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.08	49.35	49.60	49.68	0.75	ppb
Cobalt	59-2	71.13	70.32	70.59	70.68	0.58	ppb
Copper	63-2	540.86	545.68	528.37	538.30	1.66	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				106		%
Holmium	165-2				104		%
Indium	115-1				108		%
Indium	115-2				102		%
Iron	54-2	24179.01	23403.45	23466.26	23682.91	1.82	ppb
Iron	56-2	23815.96	23764.11	23943.20	23841.09	0.39	ppb
Iron	57-2	24387.56	24569.40	23975.87	24310.94	1.25	ppb
Krypton	83-1						cps
Lead	206-1	248.17	248.19	245.19	247.19	0.70	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	253.80	254.82	251.79	253.47	0.61	ppb
Lead	208-1	250.83	250.37	248.33	249.84	0.53	ppb
Lithium	6-1				97		%
Magnesium	24-2	11737.71	11565.25	11669.24	11657.40	0.74	ppb
Manganese	55-2	1718.07	1691.17	1727.88	1712.37	1.11	ppb
Molybdenum	94-1	224.41	228.33	231.77	228.17	1.61	ppb
Molybdenum	95-1	172.30	172.38	175.26	173.31	0.97	ppb
Molybdenum	96-1	175.98	178.62	182.78	179.13	1.91	ppb
Molybdenum	97-1	169.74	172.47	172.45	171.55	0.91	ppb
Molybdenum	98-1	168.03	170.45	171.60	170.03	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	57.62	56.94	56.71	57.09	0.83	ppb
Phosphorus	31-2	-18.71	-16.45	-27.42	-20.86		ppb
Potassium	39-2	2665.52	2630.92	2630.06	2642.17	0.77	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				114		%
Scandium	45-2				111		%
Selenium	82-1	47.33	49.71	49.38	48.81	2.64	ppb
Selenium	77-2	56.41	57.23	56.61	56.75	0.75	ppb
Selenium	78-2	49.10	54.08	51.34	51.50	4.84	ppb
Silicon	28-1	4110.94	4111.56	4066.28	4096.26	0.63	ppb
Silver	107-1	7.30	7.46	7.57	7.44	1.83	ppb
Silver	109-1	7.33	7.62	7.48	7.48	1.95	ppb
Sodium	23-2	11396.83	11283.90	11022.68	11234.47	1.71	ppb
Strontium	86-1	117.24	117.84	118.21	117.77	0.42	ppb
Strontium	88-1	121.94	122.63	123.56	122.71	0.66	ppb
Sulfur	34-1	40156.44	40932.55	39660.14	40249.71	1.59	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	46.32	46.33	46.15	46.27	0.21	ppb
Thallium	205-1	48.50	49.49	48.85	48.95	1.03	ppb
Tin	118-1	45.31	46.39	45.81	45.84	1.18	ppb
Titanium	47-1	0.52	0.51	0.46	0.50	6.81	ppb
Uranium	238-1	46.98	47.95	47.18	47.37	1.07	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	54.58	53.99	53.67	54.08	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				112		%
Zinc	66-2	585.23	573.56	578.15	578.98	1.02	ppb
Zirconium	90-1	47.18	47.29	47.09	47.19	0.22	ppb
Zirconium	91-1	44.56	44.84	45.66	45.02	1.28	ppb

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1649.72	1665.80	1673.74	1663.09	0.74	ppb
Antimony	121-1	54.28	52.03	53.62	53.31	2.17	ppb
Arsenic	75-2	0.25	0.26	0.21	0.24	10.01	ppb
Barium	135-1	270.04	255.65	261.14	262.28	2.77	ppb
Barium	137-1	266.87	247.05	266.98	260.30	4.41	ppb
Beryllium	9-1	57.58	56.68	59.20	57.82	2.21	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	54.72	52.12	54.51	53.78	2.68	ppb
Cadmium	106-1	57.26	54.44	57.09	56.27	2.81	ppb
Cadmium	111-1	55.03	53.12	54.36	54.17	1.79	ppb
Calcium	43-1	44558.34	43102.64	43619.55	43760.18	1.69	ppb
Calcium	44-1	43937.81	43279.63	43335.93	43517.79	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.69	50.72	51.18	51.20	0.94	ppb
Cobalt	59-2	71.61	72.30	73.98	72.63	1.68	ppb
Copper	63-2	559.91	550.43	568.64	559.66	1.63	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				105		%
Holmium	165-2				106		%
Indium	115-1				108		%
Indium	115-2				102		%
Iron	54-2	23973.65	24375.96	24409.20	24252.93	1.00	ppb
Iron	56-2	23967.72	23852.00	24401.08	24073.60	1.20	ppb
Iron	57-2	24331.06	24343.69	25103.28	24592.68	1.80	ppb
Krypton	83-1						cps
Lead	206-1	260.70	255.97	264.58	260.41	1.66	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	266.69	262.16	277.51	268.79	2.93	ppb
Lead	208-1	261.76	256.62	267.82	262.06	2.14	ppb
Lithium	6-1				95		%
Magnesium	24-2	11908.29	11946.28	11870.99	11908.52	0.32	ppb
Manganese	55-2	1708.35	1725.77	1731.97	1722.03	0.71	ppb
Molybdenum	94-1	231.73	233.03	229.80	231.52	0.70	ppb
Molybdenum	95-1	178.42	176.89	175.90	177.07	0.72	ppb
Molybdenum	96-1	185.19	185.08	180.19	183.49	1.56	ppb
Molybdenum	97-1	182.33	178.30	176.98	179.20	1.56	ppb
Molybdenum	98-1	178.19	176.30	174.48	176.32	1.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	58.26	58.42	59.38	58.69	1.03	ppb
Phosphorus	31-2	-17.46	-16.04	-18.96	-17.49		ppb
Potassium	39-2	2683.38	2731.14	2724.20	2712.91	0.95	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				115		%
Scandium	45-2				112		%
Selenium	82-1	51.39	49.70	49.44	50.18	2.11	ppb
Selenium	77-2	56.18	51.41	55.21	54.27	4.65	ppb
Selenium	78-2	52.67	51.04	52.11	51.94	1.59	ppb
Silicon	28-1	4118.33	4171.11	4171.26	4153.57	0.73	ppb
Silver	107-1	7.82	7.67	7.88	7.79	1.42	ppb
Silver	109-1	7.86	7.57	7.88	7.77	2.21	ppb
Sodium	23-2	11408.00	11475.65	11652.29	11511.98	1.10	ppb
Strontium	86-1	121.57	124.21	122.29	122.69	1.11	ppb
Strontium	88-1	127.74	131.10	126.53	128.46	1.85	ppb
Sulfur	34-1	41224.71	40865.59	41284.91	41125.07	0.55	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	48.97	47.93	50.01	48.97	2.13	ppb
Thallium	205-1	51.97	51.94	52.83	52.25	0.97	ppb
Tin	118-1	48.71	46.78	48.10	47.86	2.06	ppb
Titanium	47-1	0.51	0.49	0.49	0.50	2.58	ppb
Uranium	238-1	49.46	49.41	50.65	49.84	1.41	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	55.50	56.48	56.42	56.13	0.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	590.90	590.86	603.36	595.04	1.21	ppb
Zirconium	90-1	48.92	49.24	48.54	48.90	0.71	ppb
Zirconium	91-1	46.68	47.28	46.10	46.68	1.26	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1604.59	1633.16	1596.90	1611.55	1.19	ppb
Antimony	121-1	52.54	50.75	52.37	51.88	1.90	ppb
Arsenic	75-2	0.16	0.15	0.20	0.17	14.17	ppb
Barium	135-1	262.47	243.28	256.15	253.97	3.85	ppb
Barium	137-1	256.75	245.00	253.22	251.66	2.40	ppb
Beryllium	9-1	57.14	55.20	55.29	55.88	1.96	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	53.03	49.41	52.22	51.55	3.69	ppb
Cadmium	106-1	56.45	53.43	54.51	54.80	2.79	ppb
Cadmium	111-1	52.88	51.58	52.76	52.41	1.37	ppb
Calcium	43-1	42675.70	43295.67	43254.64	43075.34	0.80	ppb
Calcium	44-1	42407.92	43145.95	43631.05	43061.64	1.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.53	50.95	49.32	49.93	1.77	ppb
Cobalt	59-2	70.77	73.09	70.97	71.61	1.79	ppb
Copper	63-2	552.83	564.43	542.59	553.28	1.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				104		%
Indium	115-1				108		%
Indium	115-2				103		%
Iron	54-2	23898.05	23990.26	23872.31	23920.21	0.26	ppb
Iron	56-2	23422.21	23855.30	23604.99	23627.50	0.92	ppb
Iron	57-2	24044.10	24665.41	24007.21	24238.91	1.53	ppb
Krypton	83-1						cps
Lead	206-1	252.70	255.10	248.34	252.05	1.36	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	260.44	254.58	248.43	254.48	2.36	ppb
Lead	208-1	254.02	251.06	246.00	250.36	1.62	ppb
Lithium	6-1				95		%
Magnesium	24-2	11789.36	12278.07	11534.30	11867.25	3.18	ppb
Manganese	55-2	1701.51	1705.49	1691.01	1699.33	0.44	ppb
Molybdenum	94-1	228.81	227.67	230.00	228.82	0.51	ppb
Molybdenum	95-1	181.54	175.93	177.12	178.20	1.66	ppb
Molybdenum	96-1	182.00	184.52	182.18	182.90	0.77	ppb
Molybdenum	97-1	174.47	182.12	171.33	175.97	3.15	ppb
Molybdenum	98-1	173.82	173.23	168.88	171.98	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	57.08	59.16	56.91	57.72	2.17	ppb
Phosphorus	31-2	-22.68	-15.34	-19.35	-19.13		ppb
Potassium	39-2	2638.49	2712.16	2613.54	2654.73	1.93	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				115		%
Scandium	45-2				112		%
Selenium	82-1	50.40	49.61	48.90	49.64	1.51	ppb
Selenium	77-2	64.42	55.67	59.56	59.88	7.32	ppb
Selenium	78-2	51.85	50.79	51.91	51.52	1.22	ppb
Silicon	28-1	4115.14	4076.74	4151.18	4114.35	0.90	ppb
Silver	107-1	7.65	7.36	7.71	7.57	2.46	ppb
Silver	109-1	7.62	7.36	7.63	7.54	2.01	ppb
Sodium	23-2	11163.83	11786.15	10897.92	11282.63	4.04	ppb
Strontium	86-1	121.76	121.21	121.89	121.62	0.30	ppb
Strontium	88-1	125.70	123.85	123.22	124.26	1.04	ppb
Sulfur	34-1	40389.99	39656.74	40439.58	40162.10	1.09	ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	47.39	46.96	46.14	46.83	1.36	ppb
Thallium	205-1	49.79	49.98	50.06	49.94	0.28	ppb
Tin	118-1	47.74	45.33	46.46	46.51	2.59	ppb
Titanium	47-1	0.45	0.50	0.50	0.48	5.60	ppb
Uranium	238-1	48.65	47.12	46.36	47.38	2.46	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	54.10	56.60	54.56	55.09	2.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				117		%
Yttrium	89-2				114		%
Zinc	66-2	584.35	589.34	580.30	584.66	0.77	ppb
Zirconium	90-1	47.07	48.31	48.87	48.08	1.92	ppb
Zirconium	91-1	45.87	46.28	46.02	46.06	0.46	ppb

Reviewed By:JANVI
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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48904.48	50367.49	50195.05	49822.34	1.60	ppb
Antimony	121-1	502.13	514.65	512.49	509.76	1.31	ppb
Arsenic	75-2	499.29	502.26	497.44	499.67	0.49	ppb
Barium	135-1	2516.98	2581.77	2534.38	2544.38	1.32	ppb
Barium	137-1	2515.74	2610.82	2555.64	2560.74	1.86	ppb
Beryllium	9-1	535.71	525.48	545.74	535.64	1.89	ppb
Bismuth	209-1				87		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	503.01	511.08	508.40	507.50	0.81	ppb
Cadmium	106-1	498.16	509.45	501.45	503.02	1.15	ppb
Cadmium	111-1	498.62	510.81	500.75	503.39	1.29	ppb
Calcium	43-1	250749.35	246733.61	253647.97	250376.98	1.39	ppb
Calcium	44-1	243387.94	244833.35	245165.36	244462.22	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.19	509.84	504.43	503.48	1.36	ppb
Cobalt	59-2	473.58	480.61	479.67	477.95	0.80	ppb
Copper	63-2	4557.16	4586.13	4564.33	4569.21	0.33	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				99		%
Indium	115-1				93		%
Indium	115-2				88		%
Iron	54-2	121894.56	121439.82	123891.49	122408.63	1.07	ppb
Iron	56-2	118941.35	120954.66	123082.76	120992.92	1.71	ppb
Iron	57-2	121559.05	124463.89	122870.90	122964.62	1.18	ppb
Krypton	83-1						cps
Lead	206-1	2497.01	2473.65	2543.38	2504.68	1.42	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2495.63	2450.39	2542.78	2496.27	1.85	ppb
Lead	208-1	2482.97	2452.08	2524.98	2486.68	1.47	ppb
Lithium	6-1				87		%
Magnesium	24-2	247315.90	249350.38	255021.99	250562.76	1.59	ppb
Manganese	55-2	4831.03	4912.79	4869.83	4871.22	0.84	ppb
Molybdenum	94-1	4880.95	4923.89	4930.10	4911.65	0.54	ppb
Molybdenum	95-1	4853.60	4899.60	4991.08	4914.76	1.42	ppb
Molybdenum	96-1	4854.12	4851.86	4991.40	4899.12	1.63	ppb
Molybdenum	97-1	4857.59	4841.76	4989.51	4896.28	1.66	ppb
Molybdenum	98-1	4844.41	4871.21	4998.00	4904.54	1.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	464.32	485.09	469.90	473.10	2.27	ppb
Phosphorus	31-2	10307.73	10316.86	10365.40	10330.00	0.30	ppb
Potassium	39-2	125832.13	124930.72	123995.09	124919.31	0.74	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				104		%
Scandium	45-2				108		%
Selenium	82-1	471.00	470.98	484.43	475.47	1.63	ppb
Selenium	77-2	488.11	498.58	471.22	485.97	2.84	ppb
Selenium	78-2	490.25	474.16	494.41	486.27	2.20	ppb
Silicon	28-1	1076.95	1065.00	1085.06	1075.67	0.94	ppb
Silver	107-1	492.48	505.36	498.97	498.94	1.29	ppb
Silver	109-1	489.61	493.35	494.54	492.50	0.52	ppb
Sodium	23-2	244701.72	250616.08	254068.97	249795.59	1.90	ppb
Strontium	86-1	496.59	494.58	503.81	498.33	0.97	ppb
Strontium	88-1	497.79	492.47	497.66	495.97	0.61	ppb
Sulfur	34-1	10439.30	10112.31	10354.09	10301.90	1.65	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	496.85	485.09	508.66	496.87	2.37	ppb
Thallium	205-1	498.56	486.48	506.89	497.31	2.06	ppb
Tin	118-1	501.32	519.23	510.38	510.31	1.75	ppb
Titanium	47-1	4964.76	4834.17	4992.41	4930.45	1.71	ppb
Uranium	238-1	492.61	489.83	497.34	493.26	0.77	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	513.70	507.95	517.35	513.00	0.92	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	4548.37	4512.88	4588.08	4549.78	0.83	ppb
Zirconium	90-1	494.71	494.84	500.54	496.69	0.67	ppb
Zirconium	91-1	490.03	493.41	502.90	495.45	1.35	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.58	0.66	0.09	0.44	69.98	ppb
Antimony	121-1	0.05	0.05	0.04	0.05	14.00	ppb
Arsenic	75-2	-0.01	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.01	0.01	0.01	0.01	25.80	ppb
Barium	137-1	0.01	0.01	0.01	0.01	9.20	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	14.46	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.06	0.03	0.05	42.97	ppb
Cadmium	106-1	-0.28	0.05	-0.17	-0.13		ppb
Cadmium	111-1	-0.02	0.01	-0.01	-0.01		ppb
Calcium	43-1	-1.52	-1.03	-0.84	-1.13		ppb
Calcium	44-1	4.12	3.77	4.00	3.96	4.48	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	36.14	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	692.49	ppb
Copper	63-2	0.03	0.03	0.04	0.03	9.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				106		%
Indium	115-1				111		%
Indium	115-2				106		%
Iron	54-2	1.21	0.73	0.94	0.96	24.90	ppb
Iron	56-2	0.74	0.74	0.68	0.72	5.25	ppb
Iron	57-2	1.27	0.35	0.70	0.78	59.60	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.06	0.07	11.87	ppb

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.08	0.07	0.07	7.71	ppb
Lead	208-1	0.08	0.07	0.07	0.07	8.18	ppb
Lithium	6-1				100		%
Magnesium	24-2	1.63	1.93	1.52	1.69	12.68	ppb
Manganese	55-2	-0.76	-0.88	-0.84	-0.83		ppb
Molybdenum	94-1	0.12	0.09	0.10	0.11	15.72	ppb
Molybdenum	95-1	0.07	0.06	0.05	0.06	20.87	ppb
Molybdenum	96-1	0.07	0.05	0.04	0.05	29.13	ppb
Molybdenum	97-1	0.05	0.04	0.05	0.05	18.02	ppb
Molybdenum	98-1	0.05	0.04	0.04	0.05	17.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.01	-0.03	-0.01		ppb
Phosphorus	31-2	-20.54	-25.92	-22.27	-22.91		ppb
Potassium	39-2	45.84	41.12	39.49	42.15	7.82	ppb
Rhodium	103-1				109		%
Rhodium	103-2				108		%
Scandium	45-1				115		%
Scandium	45-2				113		%
Selenium	82-1	0.01	0.05	-0.13	-0.02		ppb
Selenium	77-2	-0.14	-0.14	-0.14	-0.14		ppb
Selenium	78-2	0.35	0.55	0.11	0.34	66.03	ppb
Silicon	28-1	-2.30	-3.51	-2.79	-2.87		ppb
Silver	107-1	0.02	0.02	0.02	0.02	6.38	ppb
Silver	109-1	0.02	0.02	0.02	0.02	9.25	ppb
Sodium	23-2	44.67	42.72	39.42	42.27	6.28	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	471.83	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	1.29	ppb
Sulfur	34-1	-324.04	-246.21	-250.53	-273.59		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.03	0.02	0.02	0.02	6.12	ppb
Thallium	205-1	0.03	0.02	0.02	0.03	9.74	ppb
Tin	118-1	0.03	0.00	0.01	0.01	77.08	ppb
Titanium	47-1	0.06	0.05	0.06	0.06	8.20	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	387.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				108		%
Zinc	66-2	-0.02	0.13	0.03	0.05	161.94	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	5.23	ppb
Zirconium	91-1	0.04	0.03	0.03	0.03	11.89	ppb

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	250	263	283	266	6.32	cps
Antimony	121-1	53	73	53	60	19.25	cps
Arsenic	75-2	13	10	17	13	25.01	cps
Barium	135-1	107	140	163	137	20.84	cps
Barium	137-1	260	260	213	244	11.02	cps
Beryllium	9-1	101	87	92	94	7.42	cps
Bismuth	209-1	4805140	4869618	4780416	4818391	0.96	cps
Bismuth	209-2	2451348	2413585	2427635	2430856	0.79	cps
Bromine	81-1	27490	27667	25944	27034	3.51	cps
Cadmium	108-1	3	13	10	9	57.30	cps
Cadmium	106-1	4257	4347	4171	4258	2.08	cps
Cadmium	111-1	3001	3061	2972	3011	1.49	cps
Calcium	43-1	1413	1280	1247	1313	6.72	cps
Calcium	44-1	27276	27389	27747	27471	0.89	cps
Carbon	12-1	4165722	4138540	4071399	4125220	1.18	cps
Carbon	12-2	28274	27750	27663	27895	1.19	cps
Chlorine	35-1	103607	100311	100670	101529	1.78	cps
Chlorine	35-2	390	423	360	391	8.10	cps
Chromium	52-2	1347	1410	1393	1383	2.37	cps
Cobalt	59-2	83	120	90	98	19.98	cps
Copper	63-2	1840	1950	1810	1867	3.95	cps
Dysprosium	156-1	17	23	7	16	53.90	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	43	70	80	64	29.41	cps
Erbium	164-2	27	23	33	28	18.33	cps
Gadolinium	160-1	83	100	60	81	24.77	cps
Gadolinium	160-2	10	3	10	8	49.52	cps
Holmium	165-1	7827717	8072464	7934516	7944899	1.54	cps
Holmium	165-2	3372953	3276660	3300193	3316602	1.51	cps
Indium	115-1	6854929	6844012	6749179	6816040	0.85	cps
Indium	115-2	803840	810405	799772	804672	0.67	cps
Iron	54-2	733	833	837	801	7.33	cps
Iron	56-2	10451	10381	11028	10620	3.34	cps
Iron	57-2	247	230	260	246	6.12	cps
Krypton	83-1	263	320	297	293	9.71	cps
Lead	206-1	857	793	803	818	4.16	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	733	737	580	683	13.10	cps
Lead	208-1	3434	3370	3150	3318	4.48	cps
Lithium	6-1	2439957	2437359	2437380	2438232	0.06	cps
Magnesium	24-2	397	427	280	368	21.07	cps
Manganese	55-2	22521	22244	22004	22256	1.16	cps
Molybdenum	94-1	410	427	370	402	7.24	cps
Molybdenum	95-1	287	240	203	243	17.16	cps
Molybdenum	96-1	253	290	277	273	6.79	cps
Molybdenum	97-1	143	107	137	129	15.15	cps
Molybdenum	98-1	297	310	320	309	3.79	cps
Neodymium	150-1	7	7	33	16	98.94	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	727	690	753	723	4.40	cps
Phosphorus	31-2	140	137	130	136	3.76	cps
Potassium	39-2	15839	15562	15458	15620	1.26	cps
Rhodium	103-1	6533500	6575175	6523907	6544194	0.42	cps
Rhodium	103-2	2935098	2901072	2916230	2917467	0.58	cps
Scandium	45-1	4368163	4476989	4404191	4416448	1.26	cps
Scandium	45-2	95558	95877	96068	95834	0.27	cps
Selenium	82-1	30	-47	50	11	459.30	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	20	20	7	16	49.47	cps
Silicon	28-1	512925	509640	514473	512346	0.48	cps
Silver	107-1	113	110	173	132	26.96	cps
Silver	109-1	80	53	30	54	45.95	cps
Sodium	23-2	35543	34614	34561	34906	1.58	cps
Strontium	86-1	533	467	537	512	7.71	cps
Strontium	88-1	507	573	613	564	9.55	cps
Sulfur	34-1	575703	569638	569515	571619	0.62	cps
Terbium	159-1	8316510	8124506	8141296	8194104	1.30	cps
Terbium	159-2	3313592	3297260	3221291	3277381	1.50	cps
Thallium	203-1	147	177	127	150	16.78	cps
Thallium	205-1	307	343	353	334	7.35	cps
Tin	118-1	3971	3871	3624	3822	4.67	cps
Titanium	47-1	230	210	210	217	5.33	cps
Uranium	238-1	343	367	360	357	3.37	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:05:42	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30	30	13	24	39.37	cps
Ytterbium	172-1	57	27	67	50	41.63	cps
Ytterbium	172-2	13	23	20	19	26.96	cps
Ytterbium	176-1	1143	1160	1083	1129	3.57	cps
Ytterbium	176-2	353	353	340	349	2.21	cps
Yttrium	89-1	12172223	12482545	12160792	12271853	1.49	cps
Yttrium	89-2	1000547	1019605	995336	1005163	1.27	cps
Zinc	66-2	1380	1533	1533	1482	5.97	cps
Zirconium	90-1	817	810	817	814	0.47	cps
Zirconium	91-1	170	157	143	157	8.51	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2217	2324	2124	2221	4.51	cps
Antimony	121-1	53956	54839	54655	54483	0.86	cps
Arsenic	75-2	763	777	633	724	10.93	cps
Barium	135-1	65306	65283	65762	65450	0.41	cps
Barium	137-1	113189	113864	112808	113287	0.47	cps
Beryllium	9-1	7273	7312	7212	7266	0.69	cps
Bismuth	209-1	4739021	4841747	4842470	4807746	1.24	cps
Bismuth	209-2	2474568	2432018	2438753	2448446	0.93	cps
Bromine	81-1	27029	26321	26933	26761	1.43	cps
Cadmium	108-1	500	587	423	503	16.24	cps
Cadmium	106-1	5341	4734	4971	5015	6.10	cps
Cadmium	111-1	10251	10005	10459	10238	2.22	cps
Calcium	43-1	46605	46020	46649	46425	0.76	cps
Calcium	44-1	765106	766270	770423	767266	0.36	cps
Carbon	12-1	4246367	4120633	4093964	4153655	1.96	cps
Carbon	12-2	28401	27489	28254	28048	1.75	cps
Chlorine	35-1	106451	106276	104514	105747	1.01	cps
Chlorine	35-2	440	357	483	427	15.09	cps
Chromium	52-2	14257	14354	13707	14106	2.48	cps
Cobalt	59-2	13016	12923	12569	12836	1.84	cps
Copper	63-2	21790	21259	21089	21379	1.71	cps
Dysprosium	156-1	7	33	30	23	62.26	cps
Dysprosium	156-2	13	3	3	7	86.65	cps
Erbium	164-1	23	57	70	50	48.08	cps
Erbium	164-2	20	17	17	18	10.81	cps
Gadolinium	160-1	90	83	73	82	10.20	cps
Gadolinium	160-2	30	30	13	24	39.37	cps
Holmium	165-1	7730230	7795007	7961221	7828819	1.52	cps
Holmium	165-2	3400863	3334643	3445417	3393641	1.64	cps
Indium	115-1	6766518	6819575	6748358	6778150	0.55	cps
Indium	115-2	806173	801266	812552	806663	0.70	cps
Iron	54-2	14991	14601	13553	14382	5.17	cps
Iron	56-2	261026	256582	245344	254317	3.18	cps
Iron	57-2	6308	6265	6068	6214	2.06	cps
Krypton	83-1	240	300	313	284	13.73	cps
Lead	206-1	20263	20413	19782	20152	1.64	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17158	17465	17369	17331	0.91	cps
Lead	208-1	78807	79742	79239	79263	0.59	cps
Lithium	6-1	2491113	2444308	2507535	2480985	1.32	cps
Magnesium	24-2	184995	184303	177484	182261	2.28	cps
Manganese	55-2	24681	24995	23489	24389	3.26	cps
Molybdenum	94-1	57883	59570	57793	58415	1.71	cps
Molybdenum	95-1	69851	71670	71446	70989	1.40	cps
Molybdenum	96-1	78128	79358	79610	79032	1.00	cps
Molybdenum	97-1	44056	43505	44511	44024	1.14	cps
Molybdenum	98-1	112371	113090	113755	113072	0.61	cps
Neodymium	150-1	7	37	17	20	76.36	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	4327	4034	4047	4136	4.01	cps
Phosphorus	31-2	317	267	277	287	9.23	cps
Potassium	39-2	136131	137165	132172	135156	1.95	cps
Rhodium	103-1	6484631	6391374	6467894	6447967	0.77	cps
Rhodium	103-2	2859643	2897607	2901842	2886364	0.81	cps
Scandium	45-1	4385482	4458786	4469705	4437991	1.03	cps
Scandium	45-2	95541	96545	95948	96011	0.53	cps
Selenium	82-1	2320	2150	2167	2212	4.24	cps
Selenium	77-2	37	50	40	42	16.43	cps
Selenium	78-2	190	157	177	174	9.62	cps
Silicon	28-1	623045	632388	641676	632370	1.47	cps
Silver	107-1	34640	35536	35920	35365	1.86	cps
Silver	109-1	33674	34216	33327	33739	1.33	cps
Sodium	23-2	398361	394635	382353	391783	2.14	cps
Strontium	86-1	9720	9844	9453	9672	2.06	cps
Strontium	88-1	80329	80530	81671	80843	0.89	cps
Sulfur	34-1	573911	575053	576696	575220	0.24	cps
Terbium	159-1	8251632	8228096	8089872	8189867	1.07	cps
Terbium	159-2	3338137	3298902	3302406	3313148	0.66	cps
Thallium	203-1	23718	24012	23755	23829	0.67	cps
Thallium	205-1	57607	57785	57815	57736	0.19	cps
Tin	118-1	114309	116275	115246	115277	0.85	cps
Titanium	47-1	21206	20665	20178	20683	2.49	cps
Uranium	238-1	71677	70749	71443	71290	0.68	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:12:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	25216	24755	23927	24632	2.65	cps
Ytterbium	172-1	30	73	17	40	74.06	cps
Ytterbium	172-2	10	33	17	20	60.08	cps
Ytterbium	176-1	1037	1060	1213	1103	8.70	cps
Ytterbium	176-2	307	377	313	332	11.63	cps
Yttrium	89-1	12397909	12313174	12317121	12342734	0.39	cps
Yttrium	89-2	1002271	1005599	1009709	1005860	0.37	cps
Zinc	66-2	6788	6918	6602	6769	2.35	cps
Zirconium	90-1	49501	50009	50297	49936	0.81	cps
Zirconium	91-1	10938	11115	10888	10980	1.09	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93880	93290	93196	93455	0.40	cps
Antimony	121-1	1282493	1304275	1307351	1298040	1.04	cps
Arsenic	75-2	30543	29821	30025	30130	1.23	cps
Barium	135-1	1590292	1655381	1605158	1616944	2.11	cps
Barium	137-1	2779004	2768968	2745131	2764368	0.63	cps
Beryllium	9-1	326921	330773	329970	329221	0.62	cps
Bismuth	209-1	4708336	4811355	4855487	4791726	1.58	cps
Bismuth	209-2	2406007	2348972	2385827	2380269	1.22	cps
Bromine	81-1	26923	26178	26385	26495	1.45	cps
Cadmium	108-1	26619	26425	26415	26487	0.43	cps
Cadmium	106-1	41218	42515	41994	41909	1.56	cps
Cadmium	111-1	333904	338333	337641	336626	0.71	cps
Calcium	43-1	412788	422595	424449	419944	1.49	cps
Calcium	44-1	6806801	6833006	6936685	6858831	1.00	cps
Carbon	12-1	4203236	4180489	4140183	4174636	0.76	cps
Carbon	12-2	28551	28588	28805	28648	0.48	cps
Chlorine	35-1	108567	106659	107616	107614	0.89	cps
Chlorine	35-2	400	327	400	376	11.27	cps
Chromium	52-2	298004	297923	296037	297321	0.37	cps
Cobalt	59-2	564424	562139	558842	561802	0.50	cps
Copper	63-2	4566682	4543469	4578150	4562767	0.39	cps
Dysprosium	156-1	60	43	33	46	29.58	cps
Dysprosium	156-2	10	7	13	10	33.30	cps
Erbium	164-1	80	77	57	71	17.74	cps
Erbium	164-2	27	37	20	28	30.20	cps
Gadolinium	160-1	70	70	113	84	29.63	cps
Gadolinium	160-2	40	30	27	32	21.53	cps
Holmium	165-1	7941973	8088240	7903477	7977897	1.22	cps
Holmium	165-2	3335086	3257985	3303499	3298857	1.17	cps
Indium	115-1	6822025	6848055	6832882	6834321	0.19	cps
Indium	115-2	793892	782484	781315	785897	0.88	cps
Iron	54-2	616386	617202	613092	615560	0.35	cps
Iron	56-2	11354249	11305895	11376459	11345534	0.32	cps
Iron	57-2	285870	283643	284450	284654	0.40	cps
Krypton	83-1	277	270	317	288	8.77	cps
Lead	206-1	4878684	4938568	4930699	4915984	0.66	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4059210	4164073	4182008	4135097	1.60	cps
Lead	208-1	18884166	19228737	19083288	19065397	0.91	cps
Lithium	6-1	2477142	2541037	2579588	2532589	2.04	cps
Magnesium	24-2	1675153	1678237	1635933	1663108	1.42	cps
Manganese	55-2	1288496	1284801	1281558	1284952	0.27	cps
Molybdenum	94-1	4687347	4680020	4668292	4678553	0.21	cps
Molybdenum	95-1	6810419	6870226	6845868	6842171	0.44	cps
Molybdenum	96-1	7382742	7468016	7563982	7471580	1.21	cps
Molybdenum	97-1	4150335	4176273	4293385	4206664	1.81	cps
Molybdenum	98-1	10933285	10747298	10848737	10843106	0.86	cps
Neodymium	150-1	117	87	130	111	19.97	cps
Neodymium	150-2	20	3	3	9	108.30	cps
Nickel	60-2	158948	159334	159062	159114	0.12	cps
Phosphorus	31-2	5168	5088	5154	5137	0.83	cps
Potassium	39-2	571825	575138	569786	572250	0.47	cps
Rhodium	103-1	6353401	6394937	6504338	6417559	1.21	cps
Rhodium	103-2	2789072	2800151	2832812	2807345	0.81	cps
Scandium	45-1	4374353	4371391	4436372	4394039	0.84	cps
Scandium	45-2	93827	93968	93045	93613	0.53	cps
Selenium	82-1	20475	21290	20883	20883	1.95	cps
Selenium	77-2	427	420	387	411	5.21	cps
Selenium	78-2	1363	1390	1383	1379	1.01	cps
Silicon	28-1	1297088	1306746	1303876	1302570	0.38	cps
Silver	107-1	1808344	1837961	1777237	1807847	1.68	cps
Silver	109-1	1703330	1702760	1707499	1704530	0.15	cps
Sodium	23-2	3307834	3230814	3303694	3280781	1.32	cps
Strontium	86-1	431288	431171	429436	430632	0.24	cps
Strontium	88-1	3900485	3913401	3843079	3885655	0.96	cps
Sulfur	34-1	697661	701650	697624	698978	0.33	cps
Terbium	159-1	8095584	8129474	8207516	8144191	0.70	cps
Terbium	159-2	3234722	3312078	3240288	3262363	1.32	cps
Thallium	203-1	1125238	1143177	1140466	1136294	0.85	cps
Thallium	205-1	2806067	2870576	2858203	2844949	1.20	cps
Tin	118-1	1073494	1087030	1084381	1081635	0.66	cps
Titanium	47-1	1947877	1896714	1937421	1927337	1.40	cps
Uranium	238-1	3424948	3569575	3496084	3496869	2.07	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:15:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	224510	225090	223221	224274	0.43	cps
Ytterbium	172-1	80	73	70	74	6.84	cps
Ytterbium	172-2	23	23	30	26	15.07	cps
Ytterbium	176-1	6395	6648	6195	6413	3.54	cps
Ytterbium	176-2	2637	2494	2454	2528	3.81	cps
Yttrium	89-1	12448566	12411626	12145809	12335333	1.34	cps
Yttrium	89-2	993294	980720	971381	981798	1.12	cps
Zinc	66-2	491263	490626	485493	489127	0.65	cps
Zirconium	90-1	2345065	2420035	2362690	2375930	1.65	cps
Zirconium	91-1	499679	511919	509646	507081	1.28	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	222829	220824	219518	221057	0.75	cps
Antimony	121-1	3280092	3284446	3310248	3291595	0.50	cps
Arsenic	75-2	73980	72703	72361	73014	1.17	cps
Barium	135-1	3917024	3976793	3935686	3943168	0.78	cps
Barium	137-1	6724713	6652348	6654497	6677186	0.62	cps
Beryllium	9-1	786274	792763	793595	790878	0.51	cps
Bismuth	209-1	4775335	4769178	4766891	4770468	0.09	cps
Bismuth	209-2	2328614	2371548	2335725	2345296	0.98	cps
Bromine	81-1	26164	26111	26562	26279	0.94	cps
Cadmium	108-1	63726	64898	64554	64393	0.94	cps
Cadmium	106-1	96000	97542	97833	97125	1.01	cps
Cadmium	111-1	818780	820997	827307	822362	0.54	cps
Calcium	43-1	1007658	1009477	1007254	1008130	0.12	cps
Calcium	44-1	16360959	16451831	16420689	16411160	0.28	cps
Carbon	12-1	4290695	4263034	4244351	4266027	0.55	cps
Carbon	12-2	30518	29713	29399	29877	1.93	cps
Chlorine	35-1	113951	114817	114488	114419	0.38	cps
Chlorine	35-2	477	420	423	440	7.23	cps
Chromium	52-2	705534	706855	702145	704845	0.34	cps
Cobalt	59-2	1322323	1316516	1311997	1316945	0.39	cps
Copper	63-2	10629454	10613121	10755670	10666082	0.73	cps
Dysprosium	156-1	103	57	87	82	28.76	cps
Dysprosium	156-2	20	7	13	13	49.99	cps
Erbium	164-1	83	50	87	73	27.65	cps
Erbium	164-2	27	37	37	33	17.32	cps
Gadolinium	160-1	90	80	73	81	10.34	cps
Gadolinium	160-2	17	37	30	28	36.66	cps
Holmium	165-1	7890732	7951394	8002269	7948132	0.70	cps
Holmium	165-2	3262215	3355294	3271765	3296425	1.55	cps
Indium	115-1	6758375	6691435	6736893	6728901	0.51	cps
Indium	115-2	752719	748361	754613	751897	0.43	cps
Iron	54-2	1521866	1495050	1509587	1508834	0.89	cps
Iron	56-2	26730559	27197579	27131907	27020015	0.94	cps
Iron	57-2	675207	668982	674458	672882	0.51	cps
Krypton	83-1	270	313	330	304	10.17	cps
Lead	206-1	11817341	12290215	12193249	12100268	2.06	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9926567	10215754	10272475	10138265	1.83	cps
Lead	208-1	46285388	46984818	47196163	46822123	1.02	cps
Lithium	6-1	2476485	2428877	2467752	2457705	1.03	cps
Magnesium	24-2	3949102	3836454	3887037	3890864	1.45	cps
Manganese	55-2	3092907	3071769	3098721	3087799	0.46	cps
Molybdenum	94-1	11312801	11564895	11423813	11433836	1.11	cps
Molybdenum	95-1	16673081	16791156	16612784	16692341	0.54	cps
Molybdenum	96-1	18186351	18274668	18257067	18239362	0.26	cps
Molybdenum	97-1	10142037	10268705	10348258	10253000	1.01	cps
Molybdenum	98-1	26265308	26650195	26681056	26532187	0.87	cps
Neodymium	150-1	293	277	277	282	3.41	cps
Neodymium	150-2	13	10	13	12	15.73	cps
Nickel	60-2	371997	371740	373072	372270	0.19	cps
Phosphorus	31-2	11678	11435	11578	11564	1.06	cps
Potassium	39-2	1352076	1342917	1342705	1345899	0.40	cps
Rhodium	103-1	6230688	6229610	6277229	6245842	0.44	cps
Rhodium	103-2	2751231	2764831	2752946	2756336	0.27	cps
Scandium	45-1	4297386	4282439	4317681	4299169	0.41	cps
Scandium	45-2	87417	88856	88668	88313	0.89	cps
Selenium	82-1	50669	50321	50492	50494	0.34	cps
Selenium	77-2	923	997	907	942	5.08	cps
Selenium	78-2	3334	3184	3344	3287	2.73	cps
Silicon	28-1	2461792	2418699	2461995	2447496	1.02	cps
Silver	107-1	4343063	4261287	4305757	4303369	0.95	cps
Silver	109-1	4043699	4120686	4118810	4094398	1.07	cps
Sodium	23-2	7731022	7634133	7622993	7662716	0.78	cps
Strontium	86-1	1043255	1045217	1052360	1046944	0.46	cps
Strontium	88-1	9248623	9392887	9595342	9412284	1.85	cps
Sulfur	34-1	884659	880229	869488	878126	0.89	cps
Terbium	159-1	8240318	8142638	8243980	8208979	0.70	cps
Terbium	159-2	3247113	3208481	3192896	3216163	0.87	cps
Thallium	203-1	2928958	3018986	3031339	2993094	1.87	cps
Thallium	205-1	6919609	7001432	6999254	6973432	0.67	cps
Tin	118-1	2710766	2745054	2717705	2724508	0.67	cps
Titanium	47-1	4609360	4593488	4535568	4579472	0.85	cps
Uranium	238-1	8553909	8479316	8400392	8477872	0.91	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:18:54	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	535345	528066	527260	530224	0.84	cps
Ytterbium	172-1	57	83	97	79	25.82	cps
Ytterbium	172-2	33	57	73	54	36.91	cps
Ytterbium	176-1	14401	14405	14615	14474	0.85	cps
Ytterbium	176-2	5555	5781	5565	5633	2.27	cps
Yttrium	89-1	12035071	12153819	11969892	12052927	0.77	cps
Yttrium	89-2	956394	949731	954907	953677	0.37	cps
Zinc	66-2	1164966	1160193	1159738	1161633	0.25	cps
Zirconium	90-1	5727766	5652023	5705976	5695255	0.68	cps
Zirconium	91-1	1240150	1248138	1249202	1245830	0.40	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	427779	427227	425330	426779	0.30	cps
Antimony	121-1	6512400	6566937	6464171	6514503	0.79	cps
Arsenic	75-2	144188	141542	141822	142517	1.02	cps
Barium	135-1	7864686	7770229	7867160	7834025	0.71	cps
Barium	137-1	13475609	13391822	13651583	13506338	0.98	cps
Beryllium	9-1	1470280	1507805	1468225	1482104	1.50	cps
Bismuth	209-1	4724734	4707065	4779752	4737184	0.80	cps
Bismuth	209-2	2317645	2297583	2252387	2289205	1.46	cps
Bromine	81-1	25717	25226	26295	25746	2.08	cps
Cadmium	108-1	126487	126743	129188	127473	1.17	cps
Cadmium	106-1	186577	187772	186289	186880	0.42	cps
Cadmium	111-1	1679477	1694306	1719869	1697884	1.20	cps
Calcium	43-1	2003354	2001664	1965178	1990065	1.08	cps
Calcium	44-1	32422587	32306072	32367694	32365451	0.18	cps
Carbon	12-1	4446831	4493910	4475995	4472245	0.53	cps
Carbon	12-2	32219	32342	32503	32354	0.44	cps
Chlorine	35-1	119572	120617	120728	120306	0.53	cps
Chlorine	35-2	537	503	427	489	11.54	cps
Chromium	52-2	1410581	1418087	1421305	1416658	0.39	cps
Cobalt	59-2	2640312	2628105	2627973	2632130	0.27	cps
Copper	63-2	20946113	20739760	20560445	20748772	0.93	cps
Dysprosium	156-1	147	147	143	146	1.32	cps
Dysprosium	156-2	27	17	37	27	37.50	cps
Erbium	164-1	100	133	167	133	25.00	cps
Erbium	164-2	43	27	37	36	23.58	cps
Gadolinium	160-1	137	103	127	122	14.00	cps
Gadolinium	160-2	33	40	13	29	48.05	cps
Holmium	165-1	7878040	7731957	8006860	7872286	1.75	cps
Holmium	165-2	3223979	3284381	3214725	3241028	1.17	cps
Indium	115-1	6411184	6510354	6529050	6483530	0.98	cps
Indium	115-2	720132	723544	719978	721218	0.28	cps
Iron	54-2	2921700	2912334	2855679	2896571	1.23	cps
Iron	56-2	52445231	52610346	52783804	52613127	0.32	cps
Iron	57-2	1313114	1312987	1312184	1312762	0.04	cps
Krypton	83-1	370	317	343	343	7.77	cps
Lead	206-1	23718883	23838551	24246958	23934797	1.16	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	20273308	20378503	20262688	20304833	0.32	cps
Lead	208-1	93735199	94680818	93989732	94135249	0.52	cps
Lithium	6-1	2377304	2356104	2391765	2375058	0.76	cps
Magnesium	24-2	7462600	7425272	7507944	7465272	0.55	cps
Manganese	55-2	5959561	5971489	5923476	5951508	0.42	cps
Molybdenum	94-1	22968327	22722073	22958622	22883007	0.61	cps
Molybdenum	95-1	33306725	33222381	33248012	33259039	0.13	cps
Molybdenum	96-1	36632141	36017608	35923991	36191247	1.06	cps
Molybdenum	97-1	20564696	20224932	20113573	20301067	1.16	cps
Molybdenum	98-1	52817624	52948273	52804809	52856902	0.15	cps
Neodymium	150-1	550	530	523	534	2.60	cps
Neodymium	150-2	20	33	23	26	27.15	cps
Nickel	60-2	710947	710433	711725	711035	0.09	cps
Phosphorus	31-2	21823	22194	22107	22041	0.88	cps
Potassium	39-2	2574892	2553596	2584042	2570844	0.61	cps
Rhodium	103-1	6124745	6078186	6036598	6079843	0.73	cps
Rhodium	103-2	2669843	2705234	2666885	2680654	0.80	cps
Scandium	45-1	4187733	4188561	4232209	4202835	0.61	cps
Scandium	45-2	87370	86639	87216	87075	0.44	cps
Selenium	82-1	98509	99653	100637	99600	1.07	cps
Selenium	77-2	1900	1780	1880	1853	3.47	cps
Selenium	78-2	6678	6271	6515	6488	3.16	cps
Silicon	28-1	4297188	4326887	4367213	4330430	0.81	cps
Silver	107-1	8470098	8413821	8543759	8475893	0.77	cps
Silver	109-1	8060394	8154679	8066093	8093722	0.65	cps
Sodium	23-2	14936818	14854112	14623835	14804922	1.10	cps
Strontium	86-1	2182004	2156146	2149386	2162512	0.80	cps
Strontium	88-1	18994069	18339179	18817230	18716826	1.81	cps
Sulfur	34-1	1002065	1002489	999610	1001388	0.16	cps
Terbium	159-1	8083037	8077615	8141405	8100685	0.44	cps
Terbium	159-2	3152695	3167239	3150596	3156843	0.29	cps
Thallium	203-1	5778696	5718748	5769118	5755521	0.56	cps
Thallium	205-1	13678394	13625615	13810116	13704708	0.69	cps
Tin	118-1	5336204	5411878	5343267	5363783	0.78	cps
Titanium	47-1	9014221	8853402	9019120	8962248	1.05	cps
Uranium	238-1	17361057	17639446	17578416	17526306	0.83	cps

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Inst Id :P8
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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:21:50	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1033934	1035876	1038479	1036096	0.22	cps
Ytterbium	172-1	140	130	123	131	6.40	cps
Ytterbium	172-2	57	67	50	58	14.52	cps
Ytterbium	176-1	28143	27592	28046	27927	1.05	cps
Ytterbium	176-2	11348	11228	11388	11322	0.74	cps
Yttrium	89-1	11964695	11730242	11858726	11851221	0.99	cps
Yttrium	89-2	923506	932309	928678	928164	0.48	cps
Zinc	66-2	2359821	2340899	2375741	2358820	0.74	cps
Zirconium	90-1	11393201	11308759	11451640	11384533	0.63	cps
Zirconium	91-1	2593683	2554033	2622750	2590156	1.33	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	823978	827237	831213	827476	0.44	cps
Antimony	121-1	12835973	12613684	12868972	12772876	1.09	cps
Arsenic	75-2	279394	279087	283902	280794	0.96	cps
Barium	135-1	15542305	15240631	15192139	15325025	1.24	cps
Barium	137-1	26632358	25978090	26186267	26265572	1.27	cps
Beryllium	9-1	2750591	2824922	2847142	2807552	1.80	cps
Bismuth	209-1	4661585	4835806	4650718	4716036	2.20	cps
Bismuth	209-2	2203148	2230835	2214767	2216250	0.63	cps
Bromine	81-1	25042	26328	26402	25924	2.95	cps
Cadmium	108-1	245288	249043	251693	248675	1.29	cps
Cadmium	106-1	358322	367497	360600	362140	1.32	cps
Cadmium	111-1	3281785	3237945	3230131	3249954	0.86	cps
Calcium	43-1	3859858	3848348	3855193	3854466	0.15	cps
Calcium	44-1	63079809	63544021	63259601	63294477	0.37	cps
Carbon	12-1	5008629	5147213	5202295	5119379	1.95	cps
Carbon	12-2	38641	39693	39710	39348	1.56	cps
Chlorine	35-1	133293	135076	136681	135017	1.26	cps
Chlorine	35-2	607	650	553	603	8.03	cps
Chromium	52-2	2759178	2772481	2778200	2769953	0.35	cps
Cobalt	59-2	5102539	5080916	5174427	5119294	0.96	cps
Copper	63-2	39438761	40072969	40205839	39905856	1.03	cps
Dysprosium	156-1	233	280	210	241	14.78	cps
Dysprosium	156-2	53	77	57	62	20.29	cps
Erbium	164-1	173	180	220	191	13.21	cps
Erbium	164-2	93	57	40	63	43.08	cps
Gadolinium	160-1	153	160	160	158	2.44	cps
Gadolinium	160-2	50	70	50	57	20.38	cps
Holmium	165-1	7926398	7775337	7753059	7818265	1.21	cps
Holmium	165-2	3251945	3233178	3247512	3244212	0.30	cps
Indium	115-1	6331497	6299336	6182405	6271079	1.25	cps
Indium	115-2	684741	691653	685021	687138	0.57	cps
Iron	54-2	5675052	5594341	5676605	5648666	0.83	cps
Iron	56-2	103032312	103206928	104517145	103585462	0.78	cps
Iron	57-2	2652349	2661296	2619166	2644270	0.84	cps
Krypton	83-1	280	317	230	276	15.79	cps
Lead	206-1	47237889	47426003	47241806	47301899	0.23	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	39143296	40344943	39937175	39808471	1.54	cps
Lead	208-1	182071024	186827724	185481773	184793507	1.33	cps
Lithium	6-1	2331429	2391703	2339953	2354361	1.39	cps
Magnesium	24-2	14571313	14562455	14749531	14627766	0.72	cps
Manganese	55-2	11703104	11657604	11757705	11706138	0.43	cps
Molybdenum	94-1	44945811	45596133	45117873	45219939	0.75	cps
Molybdenum	95-1	65242392	65841342	65679734	65587823	0.47	cps
Molybdenum	96-1	71389759	71148466	72270147	71602791	0.82	cps
Molybdenum	97-1	40215364	40154970	40704792	40358376	0.75	cps
Molybdenum	98-1	104822412	104675272	104786852	104761512	0.07	cps
Neodymium	150-1	980	1017	1110	1036	6.47	cps
Neodymium	150-2	37	53	43	44	18.87	cps
Nickel	60-2	1351332	1354668	1370517	1358839	0.75	cps
Phosphorus	31-2	42843	43365	42255	42821	1.30	cps
Potassium	39-2	4894157	4875584	4935712	4901818	0.63	cps
Rhodium	103-1	5921618	5962859	6032393	5972290	0.94	cps
Rhodium	103-2	2653863	2647439	2612224	2637842	0.85	cps
Scandium	45-1	4067512	4124366	4123272	4105050	0.79	cps
Scandium	45-2	86280	85928	86692	86300	0.44	cps
Selenium	82-1	193136	193834	195395	194122	0.60	cps
Selenium	77-2	3807	3791	3711	3769	1.37	cps
Selenium	78-2	12846	12786	12596	12743	1.03	cps
Silicon	28-1	8003348	8072480	8025563	8033797	0.44	cps
Silver	107-1	16259836	16651113	16446820	16452589	1.19	cps
Silver	109-1	15378193	15426702	15647994	15484296	0.93	cps
Sodium	23-2	28772671	29288212	29033290	29031391	0.89	cps
Strontium	86-1	4234036	4213841	4232923	4226933	0.27	cps
Strontium	88-1	36334847	36822891	37501443	36886394	1.59	cps
Sulfur	34-1	1461190	1411618	1422198	1431668	1.82	cps
Terbium	159-1	8068658	8202149	8077923	8116243	0.92	cps
Terbium	159-2	3059153	3211218	3126636	3132335	2.43	cps
Thallium	203-1	11312539	11429444	11502487	11414823	0.84	cps
Thallium	205-1	27137134	27523526	27387330	27349330	0.72	cps
Tin	118-1	10399440	10403521	10344583	10382515	0.32	cps
Titanium	47-1	17620377	17734849	17584361	17646529	0.45	cps
Uranium	238-1	33455045	34865393	34483237	34267891	2.13	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:24:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2064534	2071938	2068955	2068476	0.18	cps
Ytterbium	172-1	213	203	183	200	7.64	cps
Ytterbium	172-2	90	123	113	109	15.71	cps
Ytterbium	176-1	54696	55208	54247	54717	0.88	cps
Ytterbium	176-2	21671	22058	22042	21924	1.00	cps
Yttrium	89-1	11690589	11822181	11851358	11788043	0.73	cps
Yttrium	89-2	911778	918373	923458	917870	0.64	cps
Zinc	66-2	4513813	4498497	4478281	4496864	0.40	cps
Zirconium	90-1	22414316	22526820	22416761	22452632	0.29	cps
Zirconium	91-1	5060031	5036570	5044439	5047013	0.24	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1633909	1610465	1657811	1634061	1.45	cps
Antimony	121-1	24805057	25352205	25714505	25290589	1.81	cps
Arsenic	75-2	546966	548374	549229	548190	0.21	cps
Barium	135-1	30371066	30928394	30954870	30751443	1.07	cps
Barium	137-1	53026836	52730683	52882413	52879977	0.28	cps
Beryllium	9-1	5345930	5353820	5394478	5364742	0.49	cps
Bismuth	209-1	4379380	4455487	4449526	4428131	0.96	cps
Bismuth	209-2	2125890	2096582	2136912	2119795	0.98	cps
Bromine	81-1	25497	25814	24749	25353	2.16	cps
Cadmium	108-1	478522	478562	487481	481522	1.07	cps
Cadmium	106-1	692074	699112	707821	699669	1.13	cps
Cadmium	111-1	6318744	6246338	6320407	6295163	0.67	cps
Calcium	43-1	7488344	7579488	7703736	7590523	1.42	cps
Calcium	44-1	123641338	126487848	126514058	125547748	1.32	cps
Carbon	12-1	5650064	5981415	6099203	5910227	3.94	cps
Carbon	12-2	46587	46971	47212	46923	0.67	cps
Chlorine	35-1	175668	182012	185475	181052	2.75	cps
Chlorine	35-2	697	723	823	748	8.93	cps
Chromium	52-2	5324208	5361070	5417156	5367478	0.87	cps
Cobalt	59-2	9773370	9771967	9861430	9802256	0.52	cps
Copper	63-2	76755562	77123489	76904842	76927964	0.24	cps
Dysprosium	156-1	517	530	577	541	5.82	cps
Dysprosium	156-2	63	90	80	78	17.32	cps
Erbium	164-1	267	310	313	297	8.78	cps
Erbium	164-2	133	103	140	126	15.55	cps
Gadolinium	160-1	273	337	253	288	15.12	cps
Gadolinium	160-2	93	57	100	83	28.00	cps
Holmium	165-1	7751773	7961569	7842924	7852089	1.34	cps
Holmium	165-2	3189474	3173866	3185170	3182837	0.25	cps
Indium	115-1	6009687	6015672	5997573	6007644	0.15	cps
Indium	115-2	630722	628580	635173	631492	0.53	cps
Iron	54-2	10892031	11043042	11124609	11019894	1.07	cps
Iron	56-2	205948244	200870017	202131024	202983095	1.30	cps
Iron	57-2	5140312	5081929	5084858	5102366	0.64	cps
Krypton	83-1	390	423	320	378	13.96	cps
Lead	206-1	92177215	91834505	92605209	92205643	0.42	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	76086862	77579349	78026431	77230881	1.32	cps
Lead	208-1	353981348	357170378	362739316	357963681	1.24	cps
Lithium	6-1	2251373	2255431	2320630	2275811	1.71	cps
Magnesium	24-2	29178477	29009357	28890857	29026230	0.50	cps
Manganese	55-2	22939340	22700051	22834895	22824762	0.53	cps
Molybdenum	94-1	90841989	91146749	89661005	90549914	0.87	cps
Molybdenum	95-1	130182818	128844625	129826275	129617906	0.53	cps
Molybdenum	96-1	140112221	140124845	143334181	141190416	1.31	cps
Molybdenum	97-1	78913072	80033699	80016415	79654395	0.81	cps
Molybdenum	98-1	208221224	208570104	208258844	208350057	0.09	cps
Neodymium	150-1	2007	1907	1967	1960	2.57	cps
Neodymium	150-2	77	57	127	87	41.60	cps
Nickel	60-2	2830545	2794489	2797118	2807384	0.72	cps
Phosphorus	31-2	84038	83478	84688	84068	0.72	cps
Potassium	39-2	9810490	9830403	9890617	9843837	0.42	cps
Rhodium	103-1	5650992	5767275	5671134	5696467	1.09	cps
Rhodium	103-2	2536962	2497178	2562673	2532271	1.30	cps
Scandium	45-1	4046404	4071792	4089687	4069294	0.53	cps
Scandium	45-2	86790	87980	88332	87701	0.92	cps
Selenium	82-1	371571	380297	382607	378159	1.54	cps
Selenium	77-2	7269	7412	7105	7262	2.11	cps
Selenium	78-2	24668	24304	24288	24420	0.88	cps
Silicon	28-1	14803587	15027794	15337915	15056432	1.78	cps
Silver	107-1	31340871	31258291	31735385	31444849	0.81	cps
Silver	109-1	29229663	29830849	30454737	29838416	2.05	cps
Sodium	23-2	57622556	56934931	57173559	57243682	0.61	cps
Strontium	86-1	8379154	8433494	8338581	8383743	0.57	cps
Strontium	88-1	72244472	73690067	74582359	73505633	1.61	cps
Sulfur	34-1	2303107	2322561	2289165	2304944	0.73	cps
Terbium	159-1	7880152	8071377	8056926	8002819	1.33	cps
Terbium	159-2	3149793	3115121	3071525	3112146	1.26	cps
Thallium	203-1	22458117	22530535	22506493	22498382	0.16	cps
Thallium	205-1	53348416	53217066	53999729	53521737	0.78	cps
Tin	118-1	20656281	20840123	21085176	20860527	1.03	cps
Titanium	47-1	34509949	35274717	34908453	34897706	1.10	cps
Uranium	238-1	68055182	68399204	69407157	68620515	1.02	cps

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Inst Id :P8
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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:27:24	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3979192	4013778	4086172	4026380	1.36	cps
Ytterbium	172-1	337	390	383	370	7.85	cps
Ytterbium	172-2	197	213	160	190	14.36	cps
Ytterbium	176-1	106596	107866	109752	108071	1.47	cps
Ytterbium	176-2	43485	42712	43776	43324	1.27	cps
Yttrium	89-1	11577893	11772593	11748071	11699519	0.91	cps
Yttrium	89-2	903785	900029	908591	904135	0.47	cps
Zinc	66-2	8676151	8689709	8758358	8708073	0.51	cps
Zirconium	90-1	45271269	45527039	44912448	45236919	0.68	cps
Zirconium	91-1	9993534	10078957	9960056	10010849	0.61	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8793450	8810788	8525542	8709927	1.84	cps
Antimony	121-1	13947	13233	12900	13360	4.01	cps
Arsenic	75-2	280	373	340	331	14.28	cps
Barium	135-1	12102	12122	11575	11933	2.60	cps
Barium	137-1	21133	20829	19968	20644	2.93	cps
Beryllium	9-1	721	595	549	622	14.36	cps
Bismuth	209-1	3976898	3970233	3941288	3962807	0.48	cps
Bismuth	209-2	1985567	1920122	1945529	1950406	1.69	cps
Bromine	81-1	23273	24425	24201	23966	2.55	cps
Cadmium	108-1	190	147	177	171	12.97	cps
Cadmium	106-1	4114	4121	4047	4094	0.99	cps
Cadmium	111-1	3754	3605	3700	3686	2.04	cps
Calcium	43-1	37666533	36819726	37166770	37217676	1.14	cps
Calcium	44-1	622311284	610664698	617934564	616970182	0.95	cps
Carbon	12-1	4521521	4540732	4424844	4495699	1.38	cps
Carbon	12-2	39546	39242	39149	39312	0.53	cps
Chlorine	35-1	120668	121451	120587	120902	0.39	cps
Chlorine	35-2	560	560	563	561	0.34	cps
Chromium	52-2	48164	47783	47101	47682	1.13	cps
Cobalt	59-2	22060	21510	20999	21523	2.47	cps
Copper	63-2	21132	21156	20532	20940	1.69	cps
Dysprosium	156-1	883	853	913	883	3.40	cps
Dysprosium	156-2	297	293	320	303	4.79	cps
Erbium	164-1	990	960	1077	1009	6.01	cps
Erbium	164-2	473	443	373	430	11.93	cps
Gadolinium	160-1	783	830	850	821	4.17	cps
Gadolinium	160-2	357	390	343	363	6.62	cps
Holmium	165-1	7563007	7347812	7387978	7432932	1.54	cps
Holmium	165-2	3147303	3153362	3150610	3150425	0.10	cps
Indium	115-1	5976127	5968697	5893579	5946134	0.77	cps
Indium	115-2	704379	697486	699503	700456	0.51	cps
Iron	54-2	54867008	53817899	52489541	53724816	2.22	cps
Iron	56-2	1020289558	1008913692	980371319	1003191523	2.05	cps
Iron	57-2	25360962	25090721	24756272	25069319	1.21	cps
Krypton	83-1	337	343	313	331	4.76	cps
Lead	206-1	95515	95368	94226	95037	0.74	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	82648	80783	79418	80950	2.00	cps
Lead	208-1	376943	373587	369054	373195	1.06	cps
Lithium	6-1	2120474	2157451	2176721	2151549	1.33	cps
Magnesium	24-2	150448758	149437218	146488668	148791548	1.38	cps
Manganese	55-2	12115	12429	12285	12276	1.28	cps
Molybdenum	94-1	17434	17154	16897	17162	1.57	cps
Molybdenum	95-1	17041	16093	16543	16559	2.86	cps
Molybdenum	96-1	30577	30116	29525	30073	1.75	cps
Molybdenum	97-1	10467	10000	9750	10073	3.61	cps
Molybdenum	98-1	25868	24305	23984	24719	4.08	cps
Neodymium	150-1	463	443	490	466	5.03	cps
Neodymium	150-2	150	127	123	133	10.89	cps
Nickel	60-2	13483	13543	13326	13451	0.83	cps
Phosphorus	31-2	187	137	183	169	16.55	cps
Potassium	39-2	53371159	53237581	52338376	52982372	1.06	cps
Rhodium	103-1	5231027	5157948	5194027	5194334	0.70	cps
Rhodium	103-2	2303628	2310335	2294898	2302954	0.34	cps
Scandium	45-1	4027808	3922674	3988342	3979608	1.33	cps
Scandium	45-2	87789	86575	86646	87003	0.78	cps
Selenium	82-1	380	257	380	339	21.01	cps
Selenium	77-2	3	13	7	8	65.47	cps
Selenium	78-2	23	20	40	28	38.58	cps
Silicon	28-1	776694	738993	710170	741952	4.50	cps
Silver	107-1	3200	2924	2697	2940	8.58	cps
Silver	109-1	3050	2824	2597	2824	8.03	cps
Sodium	23-2	303813402	296602216	294195056	298203558	1.68	cps
Strontium	86-1	27313	26609	26655	26859	1.47	cps
Strontium	88-1	230861	229781	229504	230048	0.31	cps
Sulfur	34-1	448844	453759	459344	453982	1.16	cps
Terbium	159-1	7665972	7722128	7520168	7636089	1.37	cps
Terbium	159-2	3047546	3029371	3009790	3028902	0.62	cps
Thallium	203-1	1920	1637	1450	1669	14.18	cps
Thallium	205-1	4421	3641	3330	3797	14.80	cps
Tin	118-1	6138	6298	6592	6343	3.63	cps
Titanium	47-1	2430	2697	2527	2551	5.29	cps
Uranium	238-1	2967	2764	2434	2721	9.89	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:30:11	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1197	1140	1187	1175	2.58	cps
Ytterbium	172-1	1707	1650	1683	1680	1.70	cps
Ytterbium	172-2	840	783	713	779	8.15	cps
Ytterbium	176-1	1997	1944	2020	1987	1.98	cps
Ytterbium	176-2	733	800	690	741	7.48	cps
Yttrium	89-1	11254940	11366007	11195566	11272171	0.77	cps
Yttrium	89-2	926317	927780	930580	928226	0.23	cps
Zinc	66-2	54026	53470	52330	53275	1.62	cps
Zirconium	90-1	20692	20375	20762	20610	1.00	cps
Zirconium	91-1	4531	4614	4577	4574	0.91	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	46267	46478	45080	45941	1.64	cps
Antimony	121-1	5351681	5353688	5452118	5385829	1.07	cps
Arsenic	75-2	123099	121794	120150	121681	1.21	cps
Barium	135-1	635199	636925	645994	639373	0.91	cps
Barium	137-1	1101873	1102001	1106325	1103400	0.23	cps
Beryllium	9-1	658779	661976	662669	661141	0.31	cps
Bismuth	209-1	5056718	5086934	5030568	5058074	0.56	cps
Bismuth	209-2	2471891	2500180	2505022	2492364	0.72	cps
Bromine	81-1	28282	27287	27400	27656	1.97	cps
Cadmium	108-1	44435	45214	44140	44596	1.24	cps
Cadmium	106-1	65679	65146	66272	65699	0.86	cps
Cadmium	111-1	679544	683437	696742	686575	1.31	cps
Calcium	43-1	165446	164786	167129	165787	0.73	cps
Calcium	44-1	2745862	2778062	2825071	2782998	1.43	cps
Carbon	12-1	4432220	4461112	4489045	4460792	0.64	cps
Carbon	12-2	30158	29994	29693	29948	0.79	cps
Chlorine	35-1	104248	103198	104131	103859	0.55	cps
Chlorine	35-2	483	437	500	473	6.94	cps
Chromium	52-2	614989	615068	605109	611722	0.94	cps
Cobalt	59-2	1172461	1159583	1139882	1157309	1.42	cps
Copper	63-2	928963	921992	912039	920998	0.92	cps
Dysprosium	156-1	13	30	13	19	50.96	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	63	63	70	66	5.87	cps
Erbium	164-2	37	20	23	27	33.08	cps
Gadolinium	160-1	103	73	77	84	19.48	cps
Gadolinium	160-2	13	13	17	14	13.35	cps
Holmium	165-1	8127819	8301819	8315227	8248288	1.27	cps
Holmium	165-2	3457663	3537054	3460046	3484921	1.30	cps
Indium	115-1	7057596	7171767	7146207	7125190	0.84	cps
Indium	115-2	826802	820880	820114	822599	0.44	cps
Iron	54-2	508452	503014	497573	503013	1.08	cps
Iron	56-2	9222994	9113763	8862257	9066338	2.04	cps
Iron	57-2	226816	224164	223662	224881	0.75	cps
Krypton	83-1	277	323	317	306	8.26	cps
Lead	206-1	3973305	4134248	4035451	4047668	2.01	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3276319	3350352	3336289	3320987	1.18	cps
Lead	208-1	15346941	15670426	15607378	15541582	1.10	cps
Lithium	6-1	2563364	2549717	2612047	2575043	1.27	cps
Magnesium	24-2	385408	384894	379904	383402	0.79	cps
Manganese	55-2	281011	277968	277210	278729	0.72	cps
Molybdenum	94-1	887	980	970	946	5.42	cps
Molybdenum	95-1	427	477	483	462	6.70	cps
Molybdenum	96-1	843	1097	970	970	13.06	cps
Molybdenum	97-1	300	343	267	303	12.67	cps
Molybdenum	98-1	763	823	753	780	4.85	cps
Neodymium	150-1	50	87	23	53	59.63	cps
Neodymium	150-2	13	0	13	9	86.60	cps
Nickel	60-2	325612	327498	319319	324143	1.32	cps
Phosphorus	31-2	147	100	140	129	19.58	cps
Potassium	39-2	456136	456882	452369	455129	0.53	cps
Rhodium	103-1	6845454	6725817	6737913	6769728	0.97	cps
Rhodium	103-2	2997775	2960407	2970681	2976288	0.65	cps
Scandium	45-1	4541829	4593589	4584172	4573197	0.60	cps
Scandium	45-2	98081	97186	97095	97454	0.56	cps
Selenium	82-1	87224	86739	88113	87359	0.80	cps
Selenium	77-2	1787	1790	1710	1762	2.57	cps
Selenium	78-2	5945	6058	5731	5911	2.81	cps
Silicon	28-1	503920	504625	494102	500883	1.17	cps
Silver	107-1	1770786	1784666	1813315	1789589	1.21	cps
Silver	109-1	1676419	1720959	1730758	1709378	1.69	cps
Sodium	23-2	1348714	1356246	1337757	1347572	0.69	cps
Strontium	86-1	2660	2517	2617	2598	2.83	cps
Strontium	88-1	18809	19414	19360	19194	1.74	cps
Sulfur	34-1	532211	528143	528007	529454	0.45	cps
Terbium	159-1	8671653	8609404	8636331	8639129	0.36	cps
Terbium	159-2	3400601	3350491	3328374	3359822	1.10	cps
Thallium	203-1	4827473	4976785	4819010	4874423	1.82	cps
Thallium	205-1	11515609	11716159	11282298	11504688	1.89	cps
Tin	118-1	4231	4397	4084	4237	3.70	cps
Titanium	47-1	293	340	243	292	16.54	cps
Uranium	238-1	170	210	240	207	17.00	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 15:56:54	DataFile Name :	017ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	453327	454931	444385	450881	1.26	cps
Ytterbium	172-1	50	50	70	57	20.38	cps
Ytterbium	172-2	13	23	27	21	32.88	cps
Ytterbium	176-1	1010	1073	1083	1056	3.77	cps
Ytterbium	176-2	323	260	263	282	12.63	cps
Yttrium	89-1	13096299	12941614	12759381	12932431	1.30	cps
Yttrium	89-2	1036409	1019350	1026178	1027312	0.84	cps
Zinc	66-2	199974	197882	194482	197446	1.40	cps
Zirconium	90-1	1527	1657	1593	1592	4.08	cps
Zirconium	91-1	1233	1097	1110	1147	6.57	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2317	2164	2300	2260	3.72	cps
Antimony	121-1	55981	55763	55392	55712	0.53	cps
Arsenic	75-2	660	690	653	668	2.92	cps
Barium	135-1	66696	66355	66894	66648	0.41	cps
Barium	137-1	114428	116284	114899	115204	0.84	cps
Beryllium	9-1	7248	7258	7291	7266	0.31	cps
Bismuth	209-1	5056914	4919711	5006665	4994430	1.39	cps
Bismuth	209-2	2531514	2487099	2509181	2509264	0.89	cps
Bromine	81-1	28399	28626	28569	28531	0.41	cps
Cadmium	108-1	583	580	570	578	1.20	cps
Cadmium	106-1	4984	5271	5294	5183	3.33	cps
Cadmium	111-1	10479	10162	10419	10353	1.63	cps
Calcium	43-1	47217	46539	47652	47136	1.19	cps
Calcium	44-1	773774	784455	783793	780674	0.77	cps
Carbon	12-1	4013757	4030911	3964621	4003096	0.86	cps
Carbon	12-2	27132	26414	26494	26680	1.47	cps
Chlorine	35-1	99005	97891	98660	98519	0.58	cps
Chlorine	35-2	363	403	433	400	8.78	cps
Chromium	52-2	14998	14871	14524	14798	1.66	cps
Cobalt	59-2	13133	13153	12729	13005	1.84	cps
Copper	63-2	21283	22237	21076	21532	2.88	cps
Dysprosium	156-1	33	13	37	28	45.44	cps
Dysprosium	156-2	7	10	0	6	91.64	cps
Erbium	164-1	57	67	40	54	24.75	cps
Erbium	164-2	23	17	27	22	22.91	cps
Gadolinium	160-1	87	90	50	76	29.38	cps
Gadolinium	160-2	13	13	17	14	13.35	cps
Holmium	165-1	8239705	8078396	8267236	8195113	1.24	cps
Holmium	165-2	3491356	3486258	3541340	3506318	0.87	cps
Indium	115-1	7271978	7159703	7172341	7201340	0.85	cps
Indium	115-2	836246	826796	837554	833532	0.70	cps
Iron	54-2	15025	14437	14975	14812	2.20	cps
Iron	56-2	262160	263071	257157	260796	1.22	cps
Iron	57-2	6668	6315	6158	6380	4.10	cps
Krypton	83-1	283	327	300	303	7.21	cps
Lead	206-1	20917	20843	21134	20965	0.72	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17749	18166	17979	17965	1.16	cps
Lead	208-1	81821	82539	83894	82751	1.27	cps
Lithium	6-1	2527713	2552993	2580976	2553894	1.04	cps
Magnesium	24-2	188897	186663	184864	186808	1.08	cps
Manganese	55-2	26177	26344	25677	26066	1.33	cps
Molybdenum	94-1	58666	60404	58891	59320	1.59	cps
Molybdenum	95-1	71978	72022	72793	72264	0.63	cps
Molybdenum	96-1	79402	79234	80572	79736	0.91	cps
Molybdenum	97-1	44100	44852	44785	44579	0.93	cps
Molybdenum	98-1	114565	113627	114586	114260	0.48	cps
Neodymium	150-1	17	10	23	17	39.99	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	4181	4307	4084	4191	2.67	cps
Phosphorus	31-2	307	313	257	292	10.60	cps
Potassium	39-2	140116	140539	139910	140188	0.23	cps
Rhodium	103-1	6817318	6775208	6796619	6796382	0.31	cps
Rhodium	103-2	3068539	3047921	2990354	3035605	1.33	cps
Scandium	45-1	4619792	4701404	4622753	4647983	1.00	cps
Scandium	45-2	101284	99820	101828	100977	1.03	cps
Selenium	82-1	2244	2384	2190	2272	4.40	cps
Selenium	77-2	43	70	53	56	24.25	cps
Selenium	78-2	163	180	177	173	5.09	cps
Silicon	28-1	584704	601226	592406	592779	1.39	cps
Silver	107-1	35275	35987	36358	35873	1.53	cps
Silver	109-1	33634	34172	34490	34099	1.27	cps
Sodium	23-2	412453	407215	407322	408997	0.73	cps
Strontium	86-1	9827	10314	10254	10132	2.62	cps
Strontium	88-1	83642	82911	83645	83399	0.51	cps
Sulfur	34-1	550338	553627	547909	550625	0.52	cps
Terbium	159-1	8545868	8655062	8470890	8557273	1.08	cps
Terbium	159-2	3426770	3374561	3436040	3412457	0.97	cps
Thallium	203-1	25081	24396	24109	24529	2.04	cps
Thallium	205-1	57995	57946	58303	58081	0.33	cps
Tin	118-1	118373	118605	120562	119180	1.01	cps
Titanium	47-1	20765	21049	20945	20920	0.69	cps
Uranium	238-1	71094	72787	73012	72298	1.45	cps

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Inst Id :P8
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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:09:07	DataFile Name :	020LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	24565	24962	24765	24764	0.80	cps
Ytterbium	172-1	60	47	40	49	20.83	cps
Ytterbium	172-2	20	7	23	17	52.90	cps
Ytterbium	176-1	1130	1147	1147	1141	0.84	cps
Ytterbium	176-2	260	327	293	293	11.36	cps
Yttrium	89-1	12991794	12992682	12675173	12886550	1.42	cps
Yttrium	89-2	1055841	1042579	1049275	1049232	0.63	cps
Zinc	66-2	7045	7038	7012	7032	0.25	cps
Zirconium	90-1	50267	51789	50337	50798	1.69	cps
Zirconium	91-1	11562	11258	11121	11314	1.99	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	267	297	257	273	7.62	cps
Antimony	121-1	203	293	207	234	21.76	cps
Arsenic	75-2	3	7	10	7	50.03	cps
Barium	135-1	137	160	147	148	7.92	cps
Barium	137-1	270	210	243	241	12.47	cps
Beryllium	9-1	120	97	94	104	13.69	cps
Bismuth	209-1	5014522	5013232	4980846	5002866	0.38	cps
Bismuth	209-2	2477462	2505809	2462069	2481780	0.89	cps
Bromine	81-1	28549	28335	28579	28488	0.47	cps
Cadmium	108-1	13	13	10	12	15.73	cps
Cadmium	106-1	4474	4524	4404	4467	1.35	cps
Cadmium	111-1	3159	3194	3096	3150	1.58	cps
Calcium	43-1	1277	1263	1303	1281	1.59	cps
Calcium	44-1	31267	31441	31391	31367	0.29	cps
Carbon	12-1	4234721	4320677	4242419	4265939	1.11	cps
Carbon	12-2	29723	29186	29102	29337	1.15	cps
Chlorine	35-1	139535	142695	142416	141549	1.24	cps
Chlorine	35-2	597	593	597	596	0.32	cps
Chromium	52-2	1423	1263	1273	1320	6.79	cps
Cobalt	59-2	80	100	90	90	11.11	cps
Copper	63-2	1897	1947	1993	1946	2.48	cps
Dysprosium	156-1	3	20	3	9	108.30	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	47	77	43	56	33.05	cps
Erbium	164-2	20	20	13	18	21.66	cps
Gadolinium	160-1	70	73	77	73	4.55	cps
Gadolinium	160-2	10	7	13	10	33.30	cps
Holmium	165-1	8341839	8040672	8301048	8227853	1.99	cps
Holmium	165-2	3429273	3469282	3481122	3459892	0.79	cps
Indium	115-1	7109393	7302343	7182789	7198175	1.35	cps
Indium	115-2	833023	837058	830546	833543	0.39	cps
Iron	54-2	1373	1380	1520	1425	5.81	cps
Iron	56-2	21326	21166	22188	21560	2.55	cps
Iron	57-2	580	450	530	520	12.61	cps
Krypton	83-1	290	237	357	294	20.42	cps
Lead	206-1	1350	1503	1517	1457	6.36	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1177	1130	1083	1130	4.13	cps
Lead	208-1	5467	5531	5591	5529	1.12	cps
Lithium	6-1	2591451	2608134	2555143	2584909	1.05	cps
Magnesium	24-2	400	430	480	437	9.26	cps
Manganese	55-2	20725	20408	20154	20429	1.40	cps
Molybdenum	94-1	460	500	593	518	13.21	cps
Molybdenum	95-1	247	167	167	193	23.89	cps
Molybdenum	96-1	280	267	287	278	3.67	cps
Molybdenum	97-1	90	130	120	113	18.37	cps
Molybdenum	98-1	270	280	247	266	6.44	cps
Neodymium	150-1	10	7	10	9	21.63	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1390	1440	1197	1342	9.57	cps
Phosphorus	31-2	153	157	137	149	7.20	cps
Potassium	39-2	17915	18532	18332	18259	1.73	cps
Rhodium	103-1	6665546	6923295	6766397	6785080	1.91	cps
Rhodium	103-2	2999718	3040500	2989812	3010010	0.89	cps
Scandium	45-1	4651903	4715733	4685685	4684440	0.68	cps
Scandium	45-2	100629	99645	102005	100760	1.18	cps
Selenium	82-1	37	60	-70	9	780.26	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	20	37	17	24	43.83	cps
Silicon	28-1	493408	494635	495581	494541	0.22	cps
Silver	107-1	343	387	323	351	9.22	cps
Silver	109-1	317	320	283	307	6.61	cps
Sodium	23-2	41004	41151	40235	40797	1.21	cps
Strontium	86-1	543	520	533	532	2.20	cps
Strontium	88-1	633	673	643	650	3.20	cps
Sulfur	34-1	553508	555545	550300	553118	0.48	cps
Terbium	159-1	8507391	8544472	8439956	8497273	0.62	cps
Terbium	159-2	3420730	3371440	3369688	3387286	0.86	cps
Thallium	203-1	317	330	300	316	4.76	cps
Thallium	205-1	900	787	797	828	7.58	cps
Tin	118-1	4577	4394	4584	4519	2.39	cps
Titanium	47-1	240	220	253	238	7.06	cps
Uranium	238-1	127	123	137	129	5.38	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:12:58	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	23	23	20	28.87	cps
Ytterbium	172-1	67	27	37	43	48.03	cps
Ytterbium	172-2	7	30	37	24	64.43	cps
Ytterbium	176-1	1060	1033	1020	1038	1.96	cps
Ytterbium	176-2	313	237	287	279	13.96	cps
Yttrium	89-1	12838952	12681817	12604993	12708587	0.94	cps
Yttrium	89-2	1048566	1033463	1044947	1042325	0.76	cps
Zinc	66-2	1627	1580	1603	1603	1.46	cps
Zirconium	90-1	1157	1143	1260	1187	5.38	cps
Zirconium	91-1	237	230	263	243	7.25	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9232773	9176213	9084494	9164493	0.82	cps
Antimony	121-1	33437	33919	32983	33446	1.40	cps
Arsenic	75-2	207	207	177	197	8.81	cps
Barium	135-1	9467	9463	9847	9592	2.30	cps
Barium	137-1	16490	16193	16781	16488	1.78	cps
Beryllium	9-1	1954	1960	1935	1949	0.67	cps
Bismuth	209-1	4395231	4420795	4571836	4462621	2.14	cps
Bismuth	209-2	2257177	2205044	2221383	2227868	1.20	cps
Bromine	81-1	31105	30834	31135	31024	0.53	cps
Cadmium	108-1	7005	7169	6932	7035	1.72	cps
Cadmium	106-1	4104	4084	3854	4014	3.46	cps
Cadmium	111-1	6652	6347	6482	6493	2.36	cps
Calcium	43-1	8765568	8762215	8778321	8768701	0.10	cps
Calcium	44-1	143142238	143054378	145129535	143775383	0.82	cps
Carbon	12-1	55498984	57878684	58585939	57321202	2.82	cps
Carbon	12-2	393636	395411	395899	394982	0.30	cps
Chlorine	35-1	120906612	128139921	131962361	127002965	4.42	cps
Chlorine	35-2	606356	616885	617285	613509	1.01	cps
Chromium	52-2	126342	125586	125273	125734	0.44	cps
Cobalt	59-2	13633	13773	13940	13782	1.12	cps
Copper	63-2	69955	69556	69533	69681	0.34	cps
Dysprosium	156-1	127	120	103	117	10.30	cps
Dysprosium	156-2	37	30	23	30	22.23	cps
Erbium	164-1	153	127	140	140	9.52	cps
Erbium	164-2	53	57	50	53	6.25	cps
Gadolinium	160-1	153	180	103	146	26.74	cps
Gadolinium	160-2	77	53	97	76	28.71	cps
Holmium	165-1	7802464	7928547	7984160	7905057	1.18	cps
Holmium	165-2	3293857	3267129	3368224	3309737	1.58	cps
Indium	115-1	6604620	6520761	6531362	6552247	0.70	cps
Indium	115-2	749426	755685	758759	754623	0.63	cps
Iron	54-2	25768468	25457457	25228160	25484695	1.06	cps
Iron	56-2	473776913	474012486	471772873	473187424	0.26	cps
Iron	57-2	11819372	11893543	12001073	11904663	0.77	cps
Krypton	83-1	333	320	393	349	11.20	cps
Lead	206-1	88647	88959	88637	88748	0.21	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	68637	69575	69448	69220	0.74	cps
Lead	208-1	327914	327628	329572	328371	0.32	cps
Lithium	6-1	2327464	2380706	2403388	2370519	1.64	cps
Magnesium	24-2	33072404	33133170	32428660	32878078	1.19	cps
Manganese	55-2	40628	39956	39852	40145	1.05	cps
Molybdenum	94-1	16079489	16040264	15795788	15971847	0.96	cps
Molybdenum	95-1	27999891	28438510	28231020	28223140	0.78	cps
Molybdenum	96-1	29893118	30258708	30441413	30197746	0.92	cps
Molybdenum	97-1	17378543	17384393	17360698	17374545	0.07	cps
Molybdenum	98-1	45671991	44720829	44846763	45079861	1.15	cps
Neodymium	150-1	143	140	90	124	24.01	cps
Neodymium	150-2	17	30	40	29	40.51	cps
Nickel	60-2	18953	19563	18899	19139	1.93	cps
Phosphorus	31-2	528004	526548	526745	527099	0.15	cps
Potassium	39-2	23846881	23870326	23923740	23880316	0.16	cps
Rhodium	103-1	6053091	5979213	6031802	6021369	0.63	cps
Rhodium	103-2	2690864	2664925	2652690	2669493	0.73	cps
Scandium	45-1	4529661	4494602	4548636	4524300	0.61	cps
Scandium	45-2	95816	96562	94552	95643	1.06	cps
Selenium	82-1	63	67	-40	30	202.14	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	47	37	33	39	17.85	cps
Silicon	28-1	876905	881913	886772	881864	0.56	cps
Silver	107-1	1093	1373	1747	1405	23.34	cps
Silver	109-1	1180	1350	1673	1401	17.89	cps
Sodium	23-2	70578356	70590751	70043154	70404087	0.44	cps
Strontium	86-1	304251	307963	309639	307285	0.90	cps
Strontium	88-1	2750907	2785634	2842355	2792965	1.65	cps
Sulfur	34-1	11179555	11222311	11413277	11271714	1.10	cps
Terbium	159-1	8059628	8148078	8215712	8141139	0.96	cps
Terbium	159-2	3178918	3213973	3186874	3193255	0.58	cps
Thallium	203-1	1340	1627	2017	1661	20.45	cps
Thallium	205-1	3370	4317	4838	4175	17.82	cps
Tin	118-1	7876	7632	7492	7667	2.53	cps
Titanium	47-1	8234417	8379740	8411639	8341932	1.13	cps
Uranium	238-1	1590	1663	1550	1601	3.59	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:23:11	DataFile Name :	023ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	663	700	667	677	3.00	cps
Ytterbium	172-1	60	73	67	67	10.00	cps
Ytterbium	172-2	37	30	33	33	10.01	cps
Ytterbium	176-1	973	997	1057	1009	4.26	cps
Ytterbium	176-2	260	317	313	297	10.72	cps
Yttrium	89-1	11943379	12278586	12310378	12177447	1.67	cps
Yttrium	89-2	986362	988897	982305	985855	0.34	cps
Zinc	66-2	15602	15729	15178	15503	1.86	cps
Zirconium	90-1	2270	2294	2430	2331	3.71	cps
Zirconium	91-1	450	493	553	499	10.40	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8477859	8264721	8268353	8336978	1.46	cps
Antimony	121-1	504923	509480	507119	507174	0.45	cps
Arsenic	75-2	11962	11461	11858	11761	2.25	cps
Barium	135-1	125499	125246	127123	125956	0.81	cps
Barium	137-1	215120	217023	218644	216929	0.81	cps
Beryllium	9-1	117380	120299	119356	119012	1.25	cps
Bismuth	209-1	4525691	4627812	4528330	4560611	1.28	cps
Bismuth	209-2	2257005	2240316	2203311	2233544	1.23	cps
Bromine	81-1	31676	33407	33557	32880	3.18	cps
Cadmium	108-1	13987	14071	14428	14162	1.65	cps
Cadmium	106-1	14925	14404	15138	14822	2.55	cps
Cadmium	111-1	124322	125545	126313	125394	0.80	cps
Calcium	43-1	7807535	7934954	7811823	7851438	0.92	cps
Calcium	44-1	128086488	129615048	130230761	129310766	0.85	cps
Carbon	12-1	51745674	52534073	53647634	52642460	1.82	cps
Carbon	12-2	367253	365306	368461	367007	0.43	cps
Chlorine	35-1	119262825	124009221	124609241	122627096	2.39	cps
Chlorine	35-2	581426	570337	577425	576396	0.97	cps
Chromium	52-2	228237	224550	223036	225274	1.19	cps
Cobalt	59-2	219652	219908	221433	220331	0.44	cps
Copper	63-2	224633	221386	221632	222550	0.81	cps
Dysprosium	156-1	130	110	110	117	9.90	cps
Dysprosium	156-2	37	43	47	42	12.06	cps
Erbium	164-1	140	150	160	150	6.67	cps
Erbium	164-2	47	50	37	44	15.61	cps
Gadolinium	160-1	193	153	147	164	15.35	cps
Gadolinium	160-2	53	67	60	60	11.12	cps
Holmium	165-1	8136212	8306319	8344355	8262296	1.34	cps
Holmium	165-2	3415585	3365379	3393364	3391443	0.74	cps
Indium	115-1	6951459	6930071	6949138	6943556	0.17	cps
Indium	115-2	782707	775437	779883	779343	0.47	cps
Iron	54-2	22847780	22729161	22869586	22815509	0.33	cps
Iron	56-2	428683060	419775074	426383620	424947251	1.09	cps
Iron	57-2	10761935	10559073	10747017	10689342	1.06	cps
Krypton	83-1	340	397	387	374	8.08	cps
Lead	206-1	409129	413502	413859	412164	0.64	cps

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Inst Id :P8
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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	335168	340351	342465	339328	1.11	cps
Lead	208-1	1563630	1574417	1584450	1574166	0.66	cps
Lithium	6-1	2418965	2428710	2438924	2428867	0.41	cps
Magnesium	24-2	30459723	30163605	29997100	30206810	0.78	cps
Manganese	55-2	84538	85155	85766	85153	0.72	cps
Molybdenum	94-1	14095508	14300596	14396484	14264196	1.08	cps
Molybdenum	95-1	24978434	25124973	25377597	25160335	0.80	cps
Molybdenum	96-1	26748651	27084219	26912752	26915207	0.62	cps
Molybdenum	97-1	15350490	15435878	15720206	15502191	1.25	cps
Molybdenum	98-1	39327751	39870059	40495447	39897752	1.46	cps
Neodymium	150-1	93	103	103	100	5.77	cps
Neodymium	150-2	20	17	23	20	16.65	cps
Nickel	60-2	73904	74028	73394	73775	0.45	cps
Phosphorus	31-2	478292	474572	476767	476544	0.39	cps
Potassium	39-2	22284299	21747181	21651779	21894419	1.56	cps
Rhodium	103-1	6268539	6265011	6367217	6300256	0.92	cps
Rhodium	103-2	2807817	2796003	2774352	2792724	0.61	cps
Scandium	45-1	4746750	4763661	4736785	4749065	0.29	cps
Scandium	45-2	101961	100028	100717	100902	0.97	cps
Selenium	82-1	8086	7899	8219	8068	1.99	cps
Selenium	77-2	127	217	163	169	26.80	cps
Selenium	78-2	573	503	560	546	6.81	cps
Silicon	28-1	893576	905968	907963	902502	0.86	cps
Silver	107-1	572798	580952	574180	575976	0.76	cps
Silver	109-1	546913	553687	556053	552218	0.86	cps
Sodium	23-2	65277481	63999832	64651931	64643081	0.99	cps
Strontium	86-1	272623	276598	278869	276030	1.15	cps
Strontium	88-1	2459758	2523905	2560902	2514855	2.03	cps
Sulfur	34-1	10199937	10368469	10251008	10273138	0.84	cps
Terbium	159-1	8460754	8474444	8489240	8474813	0.17	cps
Terbium	159-2	3271748	3244595	3210378	3242240	0.95	cps
Thallium	203-1	407927	411518	413307	410918	0.67	cps
Thallium	205-1	966401	990842	992719	983321	1.49	cps
Tin	118-1	7846	7776	7729	7783	0.75	cps
Titanium	47-1	7357549	7491983	7362588	7404040	1.03	cps
Uranium	238-1	1410	1487	1527	1475	4.02	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P8
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:38:18	DataFile Name :	027ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	88324	87110	86422	87285	1.10	cps
Ytterbium	172-1	60	63	67	63	5.27	cps
Ytterbium	172-2	30	43	50	41	24.77	cps
Ytterbium	176-1	940	1093	973	1002	8.05	cps
Ytterbium	176-2	230	180	217	209	12.40	cps
Yttrium	89-1	12883211	12935742	13084670	12967874	0.81	cps
Yttrium	89-2	1032606	1011998	1027435	1024013	1.05	cps
Zinc	66-2	31996	31746	32267	32003	0.81	cps
Zirconium	90-1	1830	2207	2194	2077	10.29	cps
Zirconium	91-1	483	547	590	540	9.93	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4996473	4989156	4905991	4963873	1.01	cps
Antimony	121-1	12874907	13086054	13052201	13004388	0.87	cps
Arsenic	75-2	303154	310999	303424	305859	1.46	cps
Barium	135-1	15721914	15940030	15606161	15756035	1.08	cps
Barium	137-1	26584365	26596940	26511341	26564215	0.17	cps
Beryllium	9-1	2758876	2834274	2820571	2804574	1.43	cps
Bismuth	209-1	4142715	4269032	4194742	4202163	1.51	cps
Bismuth	209-2	2104800	2141126	2116626	2120851	0.87	cps
Bromine	81-1	31308	32167	32732	32069	2.23	cps
Cadmium	108-1	243156	247866	243935	244985	1.03	cps
Cadmium	106-1	353556	358480	360379	357472	0.98	cps
Cadmium	111-1	3141227	3254263	3156665	3184051	1.92	cps
Calcium	43-1	20565996	21188411	20534441	20762949	1.78	cps
Calcium	44-1	334909428	340881035	345590275	340460246	1.57	cps
Carbon	12-1	5479606	5562960	5813162	5618576	3.09	cps
Carbon	12-2	44611	45590	45781	45327	1.39	cps
Chlorine	35-1	5879720	5519090	5278687	5559166	5.44	cps
Chlorine	35-2	22414	20989	20565	21322	4.54	cps
Chromium	52-2	3116225	3182832	3117639	3138898	1.21	cps
Cobalt	59-2	5531257	5587816	5533916	5550996	0.57	cps
Copper	63-2	41515908	41929634	41766406	41737316	0.50	cps
Dysprosium	156-1	653	603	580	612	6.12	cps
Dysprosium	156-2	170	147	197	171	14.62	cps
Erbium	164-1	590	610	593	598	1.79	cps
Erbium	164-2	223	207	210	213	4.14	cps
Gadolinium	160-1	420	497	447	454	8.56	cps
Gadolinium	160-2	163	227	223	204	17.43	cps
Holmium	165-1	7824264	7935655	7755006	7838308	1.16	cps
Holmium	165-2	3244520	3292472	3375871	3304288	2.01	cps
Indium	115-1	6309510	6189723	6354338	6284524	1.35	cps
Indium	115-2	712269	729557	725715	722513	1.26	cps
Iron	54-2	30787286	30646748	30372587	30602207	0.69	cps
Iron	56-2	545344832	557241618	559592125	554059525	1.38	cps
Iron	57-2	13832913	14093934	13949793	13958880	0.94	cps
Krypton	83-1	413	343	363	373	9.66	cps
Lead	206-1	43141959	43449038	44122198	43571065	1.15	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36950144	37358349	36768447	37025647	0.82	cps
Lead	208-1	169966888	172828156	169181903	170658982	1.12	cps
Lithium	6-1	2230234	2240146	2300545	2256975	1.69	cps
Magnesium	24-2	86771252	85771239	85037449	85859980	1.01	cps
Manganese	55-2	13050059	13376161	13048748	13158323	1.43	cps
Molybdenum	94-1	46458324	46917989	46611171	46662495	0.50	cps
Molybdenum	95-1	67032961	68507822	67352187	67630990	1.15	cps
Molybdenum	96-1	74430669	74376546	74982994	74596736	0.45	cps
Molybdenum	97-1	41709477	41467174	42728034	41968228	1.59	cps
Molybdenum	98-1	107005705	107758232	110071438	108278458	1.48	cps
Neodymium	150-1	1223	1247	1313	1261	3.70	cps
Neodymium	150-2	100	97	103	100	3.33	cps
Nickel	60-2	1504130	1532942	1437955	1491676	3.26	cps
Phosphorus	31-2	50969	51772	51287	51343	0.79	cps
Potassium	39-2	30442815	30630705	30399254	30490924	0.40	cps
Rhodium	103-1	5894559	5814546	6011364	5906823	1.68	cps
Rhodium	103-2	2589225	2662877	2613921	2622008	1.43	cps
Scandium	45-1	4465705	4646107	4579821	4563877	2.00	cps
Scandium	45-2	101529	103472	103415	102806	1.08	cps
Selenium	82-1	193861	193397	194873	194044	0.39	cps
Selenium	77-2	4014	4087	4061	4054	0.92	cps
Selenium	78-2	13456	13643	13130	13410	1.94	cps
Silicon	28-1	8607761	8718689	9005407	8777286	2.34	cps
Silver	107-1	15524276	15922900	15560466	15669214	1.41	cps
Silver	109-1	14634251	14972172	14958370	14854931	1.29	cps
Sodium	23-2	172336964	172486101	174889737	173237601	0.83	cps
Strontium	86-1	4433660	4301230	4453872	4396254	1.89	cps
Strontium	88-1	38050234	38607099	39033982	38563772	1.28	cps
Sulfur	34-1	1624768	1642505	1592323	1619865	1.57	cps
Terbium	159-1	8129166	8120389	8100299	8116618	0.18	cps
Terbium	159-2	3180925	3249978	3226985	3219296	1.09	cps
Thallium	203-1	10407543	10546906	10686327	10546925	1.32	cps
Thallium	205-1	24869686	25326658	25505828	25234057	1.30	cps
Tin	118-1	10411170	10369980	10793497	10524882	2.22	cps
Titanium	47-1	19174639	19527282	19166961	19289627	1.07	cps
Uranium	238-1	32213729	33110001	31836525	32386752	2.02	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:41:29	DataFile Name :	028CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2480835	2443222	2442153	2455403	0.90	cps
Ytterbium	172-1	980	927	910	939	3.89	cps
Ytterbium	172-2	413	457	470	447	6.63	cps
Ytterbium	176-1	53170	54120	54964	54085	1.66	cps
Ytterbium	176-2	21982	22202	22649	22278	1.53	cps
Yttrium	89-1	12274638	12092570	12497249	12288152	1.65	cps
Yttrium	89-2	1017343	1026150	1014655	1019383	0.59	cps
Zinc	66-2	4701996	4737287	4802159	4747147	1.07	cps
Zirconium	90-1	23284708	23303426	23517080	23368405	0.55	cps
Zirconium	91-1	5209938	5312052	5243222	5255071	0.99	cps

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	433	457	393	428	7.49	cps
Antimony	121-1	3194	2847	2470	2837	12.75	cps
Arsenic	75-2	7	13	30	17	72.11	cps
Barium	135-1	463	367	347	392	15.91	cps
Barium	137-1	810	763	717	763	6.11	cps
Beryllium	9-1	312	314	277	301	6.83	cps
Bismuth	209-1	4955067	4963901	5052575	4990514	1.08	cps
Bismuth	209-2	2547033	2528432	2488217	2521227	1.19	cps
Bromine	81-1	31870	31208	32551	31876	2.11	cps
Cadmium	108-1	30	43	20	31	37.62	cps
Cadmium	106-1	4571	4881	4811	4754	3.42	cps
Cadmium	111-1	3372	3573	3527	3491	3.02	cps
Calcium	43-1	1850	1847	1720	1806	4.10	cps
Calcium	44-1	46401	43653	44131	44728	3.28	cps
Carbon	12-1	4864675	4675105	4728609	4756130	2.05	cps
Carbon	12-2	31474	31494	31050	31339	0.80	cps
Chlorine	35-1	3087569	2953314	2801021	2947301	4.86	cps
Chlorine	35-2	11518	10958	10437	10971	4.93	cps
Chromium	52-2	1463	1583	1553	1533	4.07	cps
Cobalt	59-2	177	183	170	177	3.78	cps
Copper	63-2	3220	3204	2977	3134	4.34	cps
Dysprosium	156-1	7	17	17	13	43.29	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	57	73	53	61	17.53	cps
Erbium	164-2	33	20	20	24	31.49	cps
Gadolinium	160-1	83	77	67	76	11.10	cps
Gadolinium	160-2	7	13	27	16	65.47	cps
Holmium	165-1	8377028	8398131	8222074	8332411	1.15	cps
Holmium	165-2	3475230	3526747	3513466	3505148	0.76	cps
Indium	115-1	7443316	7435910	7519221	7466149	0.62	cps
Indium	115-2	843264	855037	848908	849069	0.69	cps
Iron	54-2	1633	1440	1467	1513	6.92	cps
Iron	56-2	21720	21924	21557	21733	0.85	cps
Iron	57-2	483	520	470	491	5.27	cps
Krypton	83-1	323	310	303	312	3.26	cps
Lead	206-1	3841	3617	3484	3647	4.94	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3407	3130	3107	3215	5.19	cps
Lead	208-1	15450	14557	13580	14529	6.44	cps
Lithium	6-1	2502318	2583511	2610857	2565562	2.20	cps
Magnesium	24-2	2037	2104	1880	2007	5.72	cps
Manganese	55-2	1443	1353	1377	1391	3.36	cps
Molybdenum	94-1	2994	2704	2470	2723	9.63	cps
Molybdenum	95-1	2727	2280	2080	2362	14.02	cps
Molybdenum	96-1	3034	2644	2297	2658	13.87	cps
Molybdenum	97-1	1640	1213	1370	1408	15.33	cps
Molybdenum	98-1	4184	3417	3220	3607	14.11	cps
Neodymium	150-1	10	3	10	8	49.52	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	710	820	757	762	7.24	cps
Phosphorus	31-2	123	160	150	144	13.12	cps
Potassium	39-2	25994	25456	25399	25616	1.28	cps
Rhodium	103-1	6955464	7065960	7163873	7061766	1.48	cps
Rhodium	103-2	3081544	3105383	3089560	3092162	0.39	cps
Scandium	45-1	4837161	5038096	4919040	4931432	2.05	cps
Scandium	45-2	105550	106924	106605	106360	0.68	cps
Selenium	82-1	20	-43	63	13	402.39	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	40	23	57	40	41.68	cps
Silicon	28-1	541999	531147	531701	534949	1.14	cps
Silver	107-1	2024	1723	1640	1796	11.23	cps
Silver	109-1	1813	1477	1503	1598	11.71	cps
Sodium	23-2	65459	65469	64753	65227	0.63	cps
Strontium	86-1	713	643	633	663	6.57	cps
Strontium	88-1	1567	1467	1267	1433	10.66	cps
Sulfur	34-1	635228	638182	639088	637499	0.32	cps
Terbium	159-1	8794283	8615297	8769224	8726268	1.11	cps
Terbium	159-2	3386203	3445475	3422025	3417901	0.87	cps
Thallium	203-1	1687	1663	1703	1685	1.19	cps
Thallium	205-1	4337	4037	3601	3992	9.28	cps
Tin	118-1	3881	3861	3797	3846	1.13	cps
Titanium	47-1	993	883	760	879	13.28	cps
Uranium	238-1	957	843	633	811	20.23	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:44:20	DataFile Name :	029CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30	67	57	51	37.09	cps
Ytterbium	172-1	73	60	43	59	25.53	cps
Ytterbium	172-2	17	27	13	19	36.75	cps
Ytterbium	176-1	1050	1070	1037	1052	1.59	cps
Ytterbium	176-2	237	223	300	253	16.17	cps
Yttrium	89-1	13539974	13335339	13719328	13531547	1.42	cps
Yttrium	89-2	1071625	1068306	1080037	1073323	0.56	cps
Zinc	66-2	1937	1947	1933	1939	0.36	cps
Zirconium	90-1	3831	3377	3294	3500	8.25	cps
Zirconium	91-1	827	767	740	778	5.71	cps

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2587	2614	2420	2540	4.13	cps
Antimony	121-1	57078	58059	58444	57860	1.22	cps
Arsenic	75-2	793	700	690	728	7.83	cps
Barium	135-1	68455	67999	69336	68597	0.99	cps
Barium	137-1	119522	120881	120212	120205	0.57	cps
Beryllium	9-1	7328	7353	7371	7351	0.29	cps
Bismuth	209-1	4882615	4941503	5007974	4944031	1.27	cps
Bismuth	209-2	2502913	2509067	2458778	2490252	1.10	cps
Bromine	81-1	32100	32368	32003	32157	0.59	cps
Cadmium	108-1	527	670	580	592	12.23	cps
Cadmium	106-1	5514	5491	5231	5412	2.91	cps
Cadmium	111-1	10837	11217	10965	11006	1.76	cps
Calcium	43-1	48699	50682	50559	49980	2.22	cps
Calcium	44-1	842028	849628	830302	840652	1.16	cps
Carbon	12-1	4514451	4485303	4514723	4504826	0.38	cps
Carbon	12-2	30067	29366	29657	29697	1.19	cps
Chlorine	35-1	1788185	1724258	1667776	1726740	3.49	cps
Chlorine	35-2	6715	6215	6585	6505	3.99	cps
Chromium	52-2	15245	15645	15105	15332	1.83	cps
Cobalt	59-2	13894	13470	13330	13564	2.16	cps
Copper	63-2	23099	22925	22291	22772	1.87	cps
Dysprosium	156-1	27	27	23	26	7.55	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	70	73	63	69	7.39	cps
Erbium	164-2	13	43	27	28	54.11	cps
Gadolinium	160-1	83	93	97	91	7.62	cps
Gadolinium	160-2	27	13	13	18	43.33	cps
Holmium	165-1	8134468	8406763	8221376	8254202	1.69	cps
Holmium	165-2	3523108	3435202	3402544	3453618	1.81	cps
Indium	115-1	7481986	7313848	7436028	7410621	1.17	cps
Indium	115-2	839591	842070	835725	839129	0.38	cps
Iron	54-2	15969	15792	15535	15765	1.38	cps
Iron	56-2	281408	281152	273083	278548	1.70	cps
Iron	57-2	7339	6945	6708	6997	4.55	cps
Krypton	83-1	363	327	327	339	6.25	cps
Lead	206-1	21528	21885	22236	21883	1.62	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	18864	18670	18637	18724	0.65	cps
Lead	208-1	85520	85965	86533	86006	0.59	cps
Lithium	6-1	2562394	2529330	2491279	2527668	1.41	cps
Magnesium	24-2	203470	204833	198260	202187	1.72	cps
Manganese	55-2	27119	27673	27383	27392	1.01	cps
Molybdenum	94-1	62644	62198	63203	62681	0.80	cps
Molybdenum	95-1	74277	75074	74186	74513	0.66	cps
Molybdenum	96-1	82953	84377	84327	83886	0.96	cps
Molybdenum	97-1	47608	46193	45571	46458	2.25	cps
Molybdenum	98-1	118340	121442	119990	119924	1.29	cps
Neodymium	150-1	17	13	23	18	28.64	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	4667	4261	4321	4416	4.97	cps
Phosphorus	31-2	320	327	330	326	1.56	cps
Potassium	39-2	157869	157847	155946	157221	0.70	cps
Rhodium	103-1	6985790	6993732	7057236	7012253	0.56	cps
Rhodium	103-2	3131147	3048726	3032134	3070669	1.73	cps
Scandium	45-1	4943166	4955909	4911798	4936958	0.46	cps
Scandium	45-2	105164	105537	103506	104736	1.03	cps
Selenium	82-1	2314	2304	2430	2349	3.00	cps
Selenium	77-2	77	67	40	61	31.02	cps
Selenium	78-2	223	183	210	206	9.91	cps
Silicon	28-1	644421	653087	644497	647335	0.77	cps
Silver	107-1	37267	36893	37832	37330	1.27	cps
Silver	109-1	34730	34654	35529	34971	1.39	cps
Sodium	23-2	459253	467721	458002	461659	1.15	cps
Strontium	86-1	10247	10607	10297	10384	1.88	cps
Strontium	88-1	86560	88585	87468	87538	1.16	cps
Sulfur	34-1	658266	656364	651477	655369	0.53	cps
Terbium	159-1	8687446	8574880	8650075	8637467	0.66	cps
Terbium	159-2	3375199	3403521	3332826	3370516	1.06	cps
Thallium	203-1	25318	25422	25538	25426	0.43	cps
Thallium	205-1	59938	60380	60621	60313	0.57	cps
Tin	118-1	123192	124992	121772	123319	1.31	cps
Titanium	47-1	21934	22157	22304	22132	0.84	cps
Uranium	238-1	71751	72214	72465	72144	0.50	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 16:47:44	DataFile Name :	030LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	26131	27246	25887	26421	2.74	cps
Ytterbium	172-1	50	30	20	33	45.83	cps
Ytterbium	172-2	13	20	30	21	39.75	cps
Ytterbium	176-1	1080	1207	1053	1113	7.36	cps
Ytterbium	176-2	213	323	247	261	21.60	cps
Yttrium	89-1	13235440	13300538	13227809	13254595	0.30	cps
Yttrium	89-2	1066382	1066101	1062361	1064948	0.21	cps
Zinc	66-2	7459	7462	7452	7458	0.07	cps
Zirconium	90-1	53442	54730	53268	53813	1.48	cps
Zirconium	91-1	11662	12239	12179	12026	2.64	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	181784	181644	177776	180401	1.26	cps
Antimony	121-1	460	513	400	458	12.39	cps
Arsenic	75-2	110	117	153	127	18.42	cps
Barium	135-1	32168	32265	31981	32138	0.45	cps
Barium	137-1	55122	55547	55004	55224	0.52	cps
Beryllium	9-1	309	297	340	315	6.98	cps
Bismuth	209-1	5042861	4999375	4913984	4985407	1.32	cps
Bismuth	209-2	2525995	2489647	2463726	2493122	1.25	cps
Bromine	81-1	31125	31432	31201	31253	0.51	cps
Cadmium	108-1	23	33	33	30	19.25	cps
Cadmium	106-1	4891	4958	4951	4933	0.74	cps
Cadmium	111-1	3577	3654	3626	3619	1.07	cps
Calcium	43-1	656961	666153	655883	659666	0.86	cps
Calcium	44-1	10862168	10837401	11006438	10902002	0.84	cps
Carbon	12-1	4587761	4604512	4504820	4565698	1.17	cps
Carbon	12-2	30198	30432	30161	30263	0.49	cps
Chlorine	35-1	1034201	1011901	985302	1010468	2.42	cps
Chlorine	35-2	4064	4134	4127	4108	0.94	cps
Chromium	52-2	3834	3947	3861	3881	1.53	cps
Cobalt	59-2	62312	63859	62369	62847	1.40	cps
Copper	63-2	50349	49543	51011	50301	1.46	cps
Dysprosium	156-1	31437	31320	31180	31312	0.41	cps
Dysprosium	156-2	12219	12322	12189	12243	0.57	cps
Erbium	164-1	34869	36557	35681	35702	2.36	cps
Erbium	164-2	14164	13954	13834	13984	1.20	cps
Gadolinium	160-1	29245	30308	30846	30133	2.70	cps
Gadolinium	160-2	14331	14565	14211	14369	1.25	cps
Holmium	165-1	8369425	8660326	8297173	8442308	2.28	cps
Holmium	165-2	3537719	3479903	3446248	3487957	1.33	cps
Indium	115-1	7505476	7493207	7583233	7527305	0.65	cps
Indium	115-2	838994	834842	838043	837293	0.26	cps
Iron	54-2	3729798	3790827	3639198	3719941	2.05	cps
Iron	56-2	68543132	69801402	66816164	68386900	2.19	cps
Iron	57-2	1734047	1755618	1764401	1751355	0.89	cps
Krypton	83-1	433	353	287	358	20.53	cps
Lead	206-1	2654	2760	2524	2646	4.48	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2117	2387	2407	2304	7.03	cps
Lead	208-1	10252	10582	10462	10432	1.60	cps
Lithium	6-1	2546368	2604733	2640374	2597158	1.83	cps
Magnesium	24-2	1257159	1278090	1253281	1262843	1.06	cps
Manganese	55-2	561113	566870	561180	563054	0.59	cps
Molybdenum	94-1	1090	1127	1103	1107	1.68	cps
Molybdenum	95-1	540	510	580	543	6.46	cps
Molybdenum	96-1	1693	1560	1627	1627	4.10	cps
Molybdenum	97-1	350	327	307	328	6.62	cps
Molybdenum	98-1	750	747	723	740	1.96	cps
Neodymium	150-1	32115	32382	32122	32206	0.47	cps
Neodymium	150-2	9470	9367	9023	9287	2.52	cps
Nickel	60-2	14154	13944	13543	13880	2.23	cps
Phosphorus	31-2	210	173	250	211	18.16	cps
Potassium	39-2	54111	54088	53084	53761	1.09	cps
Rhodium	103-1	6886556	6975589	7028942	6963696	1.03	cps
Rhodium	103-2	3092903	3076766	3034811	3068160	0.98	cps
Scandium	45-1	4932415	5009816	5122305	5021512	1.90	cps
Scandium	45-2	106202	106158	106427	106262	0.14	cps
Selenium	82-1	57	90	110	86	31.50	cps
Selenium	77-2	37	53	40	43	20.34	cps
Selenium	78-2	60	53	60	58	6.67	cps
Silicon	28-1	39286035	39152679	38516009	38984908	1.06	cps
Silver	107-1	527	437	487	483	9.33	cps
Silver	109-1	433	387	437	419	6.67	cps
Sodium	23-2	1437506	1408115	1423520	1423047	1.03	cps
Strontium	86-1	181384	182938	182955	182425	0.49	cps
Strontium	88-1	1688470	1664303	1698485	1683753	1.04	cps
Sulfur	34-1	2425325	2398072	2350962	2391453	1.57	cps
Terbium	159-1	8813467	8584581	8826522	8741523	1.56	cps
Terbium	159-2	3411076	3434544	3375710	3407110	0.87	cps
Thallium	203-1	903	823	880	869	4.73	cps
Thallium	205-1	1954	2064	2087	2035	3.50	cps
Tin	118-1	4708	4628	4758	4698	1.40	cps
Titanium	47-1	1220	1213	1210	1215	0.42	cps
Uranium	238-1	16955	17432	17175	17187	1.39	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-06DL3X25	Instrumnet Name :	P8
Client Sample ID :	OU4-VSL-17-040325DL3	Dilution Factor :	25
Date & Time Acquired :	2025-04-14 16:51:59	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	48137	48753	48284	48391	0.66	cps
Ytterbium	172-1	12466	12603	12506	12525	0.56	cps
Ytterbium	172-2	5788	5968	5745	5834	2.03	cps
Ytterbium	176-1	8529	8429	8313	8424	1.29	cps
Ytterbium	176-2	4051	3971	3974	3998	1.13	cps
Yttrium	89-1	14058876	14316815	14258445	14211379	0.95	cps
Yttrium	89-2	1121763	1128358	1128225	1126115	0.33	cps
Zinc	66-2	39756	40033	39301	39697	0.93	cps
Zirconium	90-1	1983	2007	2094	2028	2.86	cps
Zirconium	91-1	440	430	427	432	1.61	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	182363	184631	178596	181863	1.68	cps
Antimony	121-1	38949	39507	39601	39352	0.90	cps
Arsenic	75-2	323	333	313	323	3.09	cps
Barium	135-1	85517	86387	85733	85879	0.53	cps
Barium	137-1	148400	148519	148047	148322	0.17	cps
Beryllium	9-1	1306	1175	1286	1256	5.63	cps
Bismuth	209-1	4952272	4952565	5059083	4987974	1.23	cps
Bismuth	209-2	2441078	2380584	2374387	2398683	1.54	cps
Bromine	81-1	31148	30914	32254	31439	2.28	cps
Cadmium	108-1	93	97	137	109	22.15	cps
Cadmium	106-1	5068	5138	4904	5037	2.38	cps
Cadmium	111-1	4615	4632	4527	4592	1.23	cps
Calcium	43-1	3116002	3205623	3213417	3178347	1.70	cps
Calcium	44-1	51335461	52334498	52380284	52016748	1.14	cps
Carbon	12-1	4651161	4626853	4600192	4626069	0.55	cps
Carbon	12-2	31494	30542	30923	30986	1.55	cps
Chlorine	35-1	799410	777553	769060	782007	2.00	cps
Chlorine	35-2	3124	3277	3094	3165	3.11	cps
Chromium	52-2	3370	3400	3350	3374	0.75	cps
Cobalt	59-2	151480	150887	150206	150858	0.42	cps
Copper	63-2	85003	84922	86210	85378	0.84	cps
Dysprosium	156-1	45116	45464	45133	45237	0.43	cps
Dysprosium	156-2	17905	17779	18139	17941	1.02	cps
Erbium	164-1	55820	56493	56007	56107	0.62	cps
Erbium	164-2	22502	21551	21725	21926	2.31	cps
Gadolinium	160-1	45461	45989	46123	45857	0.76	cps
Gadolinium	160-2	21397	21471	21451	21440	0.18	cps
Holmium	165-1	8171769	8458170	8237832	8289257	1.81	cps
Holmium	165-2	3450847	3350473	3447966	3416429	1.67	cps
Indium	115-1	7317424	7490189	7516120	7441244	1.45	cps
Indium	115-2	818947	817442	817263	817884	0.11	cps
Iron	54-2	7655582	7820888	7807402	7761291	1.18	cps
Iron	56-2	143897761	144141655	142568395	143535937	0.59	cps
Iron	57-2	3603479	3651918	3619121	3624839	0.68	cps
Krypton	83-1	437	483	383	434	11.52	cps
Lead	206-1	9597	9927	9927	9817	1.94	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8470	8973	8169	8537	4.76	cps
Lead	208-1	38690	39844	38479	39004	1.88	cps
Lithium	6-1	2571450	2546931	2554193	2557525	0.49	cps
Magnesium	24-2	2400846	2401802	2404669	2402439	0.08	cps
Manganese	55-2	2091408	2186201	2150969	2142859	2.24	cps
Molybdenum	94-1	1797	1947	2330	2025	13.59	cps
Molybdenum	95-1	1103	1000	1093	1066	5.35	cps
Molybdenum	96-1	3014	3164	3064	3080	2.48	cps
Molybdenum	97-1	600	677	607	628	6.77	cps
Molybdenum	98-1	1347	1300	1363	1337	2.46	cps
Neodymium	150-1	43273	44042	42771	43362	1.48	cps
Neodymium	150-2	11899	12386	12032	12106	2.08	cps
Nickel	60-2	20839	21112	20638	20863	1.14	cps
Phosphorus	31-2	257	347	217	273	24.36	cps
Potassium	39-2	111527	111507	109239	110758	1.19	cps
Rhodium	103-1	6924286	6771680	6922322	6872763	1.27	cps
Rhodium	103-2	3039887	3041427	2971346	3017554	1.33	cps
Scandium	45-1	4963839	5011486	4993115	4989480	0.48	cps
Scandium	45-2	104198	104903	103748	104283	0.56	cps
Selenium	82-1	177	153	203	178	14.07	cps
Selenium	77-2	50	87	70	69	26.65	cps
Selenium	78-2	107	83	117	102	16.74	cps
Silicon	28-1	90079802	88448119	88856572	89128164	0.95	cps
Silver	107-1	803	873	830	836	4.23	cps
Silver	109-1	807	753	793	784	3.54	cps
Sodium	23-2	5376811	5327215	5279066	5327698	0.92	cps
Strontium	86-1	572284	557578	566377	565413	1.31	cps
Strontium	88-1	5217673	5223614	5194978	5212089	0.29	cps
Sulfur	34-1	5427632	5460562	5381690	5423295	0.73	cps
Terbium	159-1	8748625	8903857	8938744	8863742	1.14	cps
Terbium	159-2	3297515	3324231	3353757	3325168	0.85	cps
Thallium	203-1	2110	2047	2080	2079	1.52	cps
Thallium	205-1	4961	4814	4928	4901	1.57	cps
Tin	118-1	7636	7519	7556	7570	0.79	cps
Titanium	47-1	2104	2097	2304	2168	5.42	cps
Uranium	238-1	33006	33986	33608	33533	1.47	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-08DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-21-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:55:16	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27767	27102	27670	27513	1.31	cps
Ytterbium	172-1	20726	21601	21170	21166	2.07	cps
Ytterbium	172-2	10024	9790	9600	9805	2.16	cps
Ytterbium	176-1	13674	13557	13594	13608	0.44	cps
Ytterbium	176-2	6425	6405	6605	6478	1.70	cps
Yttrium	89-1	15002376	14718237	14576941	14765851	1.47	cps
Yttrium	89-2	1142638	1134957	1141635	1139743	0.37	cps
Zinc	66-2	94355	95392	94996	94914	0.55	cps
Zirconium	90-1	3371	3684	3834	3629	6.51	cps
Zirconium	91-1	633	840	860	778	16.14	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	242334	239276	238951	240187	0.78	cps
Antimony	121-1	890	963	927	927	3.96	cps
Arsenic	75-2	200	237	200	212	9.98	cps
Barium	135-1	81453	82107	83110	82223	1.02	cps
Barium	137-1	140393	141211	142831	141478	0.88	cps
Beryllium	9-1	697	687	632	672	5.20	cps
Bismuth	209-1	4922936	5000000	5016711	4979882	1.00	cps
Bismuth	209-2	2446242	2404632	2430178	2427017	0.86	cps
Bromine	81-1	31596	30640	31211	31149	1.54	cps
Cadmium	108-1	43	50	63	52	19.50	cps
Cadmium	106-1	4721	4838	4804	4788	1.26	cps
Cadmium	111-1	3658	3735	3689	3694	1.05	cps
Calcium	43-1	2903697	2993486	2949206	2948796	1.52	cps
Calcium	44-1	48169073	48846969	48276828	48430957	0.75	cps
Carbon	12-1	4580543	4663063	4605379	4616328	0.92	cps
Carbon	12-2	31360	31370	31440	31390	0.14	cps
Chlorine	35-1	653203	645852	636979	645345	1.26	cps
Chlorine	35-2	2767	2734	2777	2759	0.82	cps
Chromium	52-2	3164	3220	3037	3140	2.99	cps
Cobalt	59-2	144447	145000	143068	144172	0.69	cps
Copper	63-2	93381	93015	91066	92487	1.35	cps
Dysprosium	156-1	47705	48695	48293	48231	1.03	cps
Dysprosium	156-2	19100	18857	18763	18907	0.92	cps
Erbium	164-1	58361	59023	59422	58935	0.91	cps
Erbium	164-2	23294	22546	22406	22748	2.10	cps
Gadolinium	160-1	47069	48311	48073	47818	1.38	cps
Gadolinium	160-2	22893	22783	22659	22778	0.51	cps
Holmium	165-1	8559422	8291167	8333629	8394740	1.72	cps
Holmium	165-2	3431748	3395802	3413720	3413756	0.53	cps
Indium	115-1	7506185	7445522	7532593	7494767	0.60	cps
Indium	115-2	827829	822014	818531	822791	0.57	cps
Iron	54-2	7982454	8094417	7834406	7970426	1.64	cps
Iron	56-2	148613351	149145088	146925408	148227949	0.78	cps
Iron	57-2	3751691	3741521	3702078	3731763	0.70	cps
Krypton	83-1	467	407	480	451	8.66	cps
Lead	206-1	3714	3264	3444	3474	6.52	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2770	2927	2970	2889	3.64	cps
Lead	208-1	13480	13166	13293	13313	1.18	cps
Lithium	6-1	2459217	2487315	2502683	2483072	0.89	cps
Magnesium	24-2	2514564	2494721	2458909	2489398	1.13	cps
Manganese	55-2	2033695	2033758	1980216	2015890	1.53	cps
Molybdenum	94-1	1037	1000	1070	1036	3.38	cps
Molybdenum	95-1	610	607	720	646	9.99	cps
Molybdenum	96-1	2677	2660	2544	2627	2.77	cps
Molybdenum	97-1	347	333	383	354	7.30	cps
Molybdenum	98-1	753	717	703	724	3.57	cps
Neodymium	150-1	47015	46601	46745	46787	0.45	cps
Neodymium	150-2	13096	13390	13006	13164	1.52	cps
Nickel	60-2	20225	20458	20381	20355	0.58	cps
Phosphorus	31-2	140	140	143	141	1.37	cps
Potassium	39-2	94024	93661	93409	93698	0.33	cps
Rhodium	103-1	6925624	6779483	6861043	6855384	1.07	cps
Rhodium	103-2	2986994	3067122	3004374	3019496	1.40	cps
Scandium	45-1	5103049	4988470	5007852	5033123	1.22	cps
Scandium	45-2	107310	105027	107132	106490	1.19	cps
Selenium	82-1	97	120	30	82	56.80	cps
Selenium	77-2	53	117	50	73	51.23	cps
Selenium	78-2	100	113	110	108	6.44	cps
Silicon	28-1	90620119	91145135	90287349	90684201	0.48	cps
Silver	107-1	277	287	287	283	2.04	cps
Silver	109-1	220	207	267	231	13.63	cps
Sodium	23-2	4413688	4363150	4378890	4385243	0.59	cps
Strontium	86-1	539734	536895	541586	539405	0.44	cps
Strontium	88-1	4826982	5004856	4972248	4934696	1.92	cps
Sulfur	34-1	5380345	5300863	5207779	5296329	1.63	cps
Terbium	159-1	8686685	8725252	8698344	8703427	0.23	cps
Terbium	159-2	3393941	3281858	3345600	3340466	1.68	cps
Thallium	203-1	620	687	587	631	8.07	cps
Thallium	205-1	1503	1377	1373	1418	5.23	cps
Tin	118-1	4534	4724	4821	4693	3.11	cps
Titanium	47-1	2047	2067	2020	2045	1.15	cps
Uranium	238-1	31950	32084	32582	32205	1.03	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-10DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-22-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 16:58:30	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	41604	41076	41366	41349	0.64	cps
Ytterbium	172-1	21758	21928	21584	21757	0.79	cps
Ytterbium	172-2	10264	10224	10127	10205	0.69	cps
Ytterbium	176-1	14114	14128	13981	14074	0.58	cps
Ytterbium	176-2	6602	6678	6472	6584	1.59	cps
Yttrium	89-1	14746247	14682087	14726954	14718429	0.22	cps
Yttrium	89-2	1142004	1141167	1136555	1139909	0.26	cps
Zinc	66-2	79900	79723	79997	79873	0.17	cps
Zirconium	90-1	1800	1843	1880	1841	2.18	cps
Zirconium	91-1	367	387	390	381	3.31	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	195403	198651	194585	196213	1.10	cps
Antimony	121-1	320	380	307	336	11.64	cps
Arsenic	75-2	187	197	153	179	12.68	cps
Barium	135-1	77557	78422	76856	77612	1.01	cps
Barium	137-1	133249	136090	135073	134804	1.07	cps
Beryllium	9-1	464	435	434	444	3.82	cps
Bismuth	209-1	4778677	4851324	4875853	4835285	1.05	cps
Bismuth	209-2	2353415	2371477	2394333	2373075	0.86	cps
Bromine	81-1	30771	30834	30644	30749	0.32	cps
Cadmium	108-1	37	27	13	26	45.82	cps
Cadmium	106-1	4734	4911	4531	4725	4.03	cps
Cadmium	111-1	3578	3722	3446	3582	3.86	cps
Calcium	43-1	3318585	3286513	3315205	3306768	0.53	cps
Calcium	44-1	53728933	53425473	53228594	53461000	0.47	cps
Carbon	12-1	4480736	4581435	4569566	4543912	1.21	cps
Carbon	12-2	29743	30158	30919	30273	1.97	cps
Chlorine	35-1	569020	565964	559621	564868	0.85	cps
Chlorine	35-2	2377	2477	2387	2414	2.28	cps
Chromium	52-2	3494	3410	3544	3483	1.93	cps
Cobalt	59-2	123110	124838	121194	123047	1.48	cps
Copper	63-2	57994	56793	56492	57093	1.39	cps
Dysprosium	156-1	44825	44404	44427	44552	0.53	cps
Dysprosium	156-2	17675	17705	17955	17779	0.87	cps
Erbium	164-1	53490	51479	51917	52296	2.02	cps
Erbium	164-2	20049	20609	19898	20185	1.86	cps
Gadolinium	160-1	43561	43691	43915	43722	0.41	cps
Gadolinium	160-2	20599	21140	20372	20704	1.91	cps
Holmium	165-1	8376735	8535308	8302811	8404951	1.41	cps
Holmium	165-2	3431822	3434943	3389392	3418719	0.74	cps
Indium	115-1	7348391	7435718	7454366	7412825	0.76	cps
Indium	115-2	824481	821274	816101	820619	0.52	cps
Iron	54-2	7794185	7640194	7682840	7705740	1.03	cps
Iron	56-2	140101955	142285731	141903211	141430299	0.82	cps
Iron	57-2	3591957	3615693	3551114	3586255	0.91	cps
Krypton	83-1	407	417	440	421	4.06	cps
Lead	206-1	3297	3257	3217	3257	1.23	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2804	2720	2607	2710	3.64	cps
Lead	208-1	12366	12546	12396	12436	0.78	cps
Lithium	6-1	2481587	2466031	2449045	2465554	0.66	cps
Magnesium	24-2	2970968	2999018	2960555	2976847	0.67	cps
Manganese	55-2	2105548	2129752	2118578	2117959	0.57	cps
Molybdenum	94-1	1200	1270	1377	1282	6.94	cps
Molybdenum	95-1	773	817	740	777	4.95	cps
Molybdenum	96-1	2777	2524	2744	2681	5.13	cps
Molybdenum	97-1	400	417	377	398	5.05	cps
Molybdenum	98-1	913	953	950	939	2.36	cps
Neodymium	150-1	44915	44651	44430	44665	0.54	cps
Neodymium	150-2	12729	12506	12739	12658	1.04	cps
Nickel	60-2	31846	31802	31608	31752	0.40	cps
Phosphorus	31-2	147	167	160	158	6.45	cps
Potassium	39-2	96868	97845	97775	97496	0.56	cps
Rhodium	103-1	6746950	6932089	6756422	6811820	1.53	cps
Rhodium	103-2	3032484	3045366	2953773	3010541	1.65	cps
Scandium	45-1	5010771	4998546	5006659	5005325	0.12	cps
Scandium	45-2	105840	106411	106514	106255	0.34	cps
Selenium	82-1	127	177	53	119	52.17	cps
Selenium	77-2	103	93	57	84	29.09	cps
Selenium	78-2	70	67	113	83	31.24	cps
Silicon	28-1	81994689	83473414	82963539	82810547	0.91	cps
Silver	107-1	283	247	240	257	9.09	cps
Silver	109-1	153	187	117	152	23.00	cps
Sodium	23-2	5896883	5976837	5893697	5922472	0.80	cps
Strontium	86-1	522561	536752	535580	531631	1.48	cps
Strontium	88-1	4894284	4854183	4772798	4840422	1.28	cps
Sulfur	34-1	5607241	5698401	5714856	5673499	1.02	cps
Terbium	159-1	8704980	8671961	8707682	8694874	0.23	cps
Terbium	159-2	3409142	3383211	3346458	3379603	0.93	cps
Thallium	203-1	437	577	500	504	13.90	cps
Thallium	205-1	1207	1243	1270	1240	2.56	cps
Tin	118-1	4758	4738	4851	4782	1.27	cps
Titanium	47-1	5464	5221	5458	5381	2.58	cps
Uranium	238-1	26949	27633	27968	27517	1.89	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-18DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-PCS-TC-26-040325	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:01:46	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	82925	83650	82157	82911	0.90	cps
Ytterbium	172-1	17675	17956	18039	17890	1.07	cps
Ytterbium	172-2	8606	8860	8509	8658	2.09	cps
Ytterbium	176-1	12119	11548	11925	11864	2.45	cps
Ytterbium	176-2	5291	5565	5528	5461	2.72	cps
Yttrium	89-1	14686001	14457141	14422323	14521822	0.99	cps
Yttrium	89-2	1140533	1134049	1128944	1134509	0.51	cps
Zinc	66-2	76967	77417	76093	76826	0.88	cps
Zirconium	90-1	2030	2214	2154	2132	4.38	cps
Zirconium	91-1	510	430	477	472	8.51	cps

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	70235	71474	69974	70561	1.14	cps
Antimony	121-1	307	260	390	319	20.65	cps
Arsenic	75-2	123	127	140	130	6.78	cps
Barium	135-1	76883	78848	78640	78123	1.38	cps
Barium	137-1	133246	134471	135609	134442	0.88	cps
Beryllium	9-1	407	454	392	418	7.64	cps
Bismuth	209-1	4939138	4931340	4864673	4911717	0.83	cps
Bismuth	209-2	2392844	2411176	2450421	2418147	1.22	cps
Bromine	81-1	31632	31746	29798	31059	3.52	cps
Cadmium	108-1	43	53	40	46	15.23	cps
Cadmium	106-1	4721	4641	4658	4673	0.90	cps
Cadmium	111-1	3684	3678	3612	3658	1.09	cps
Calcium	43-1	3538628	3548741	3559078	3548816	0.29	cps
Calcium	44-1	57769894	59110284	58739191	58539790	1.18	cps
Carbon	12-1	4403114	4497147	4485543	4461935	1.15	cps
Carbon	12-2	31280	30074	30051	30468	2.31	cps
Chlorine	35-1	511069	501119	496179	502789	1.51	cps
Chlorine	35-2	2217	2020	2084	2107	4.77	cps
Chromium	52-2	2557	2287	2274	2372	6.74	cps
Cobalt	59-2	240982	236384	238078	238481	0.98	cps
Copper	63-2	48041	47252	47422	47572	0.87	cps
Dysprosium	156-1	30859	31307	30876	31014	0.82	cps
Dysprosium	156-2	12396	12876	12282	12518	2.52	cps
Erbium	164-1	40211	40037	40645	40298	0.78	cps
Erbium	164-2	15880	15606	15976	15821	1.21	cps
Gadolinium	160-1	31437	31507	31664	31536	0.37	cps
Gadolinium	160-2	14531	14972	14691	14732	1.51	cps
Holmium	165-1	8444928	8344851	8470383	8420054	0.79	cps
Holmium	165-2	3389799	3489398	3489305	3456167	1.66	cps
Indium	115-1	7609487	7419436	7603832	7544252	1.43	cps
Indium	115-2	824070	830031	825916	826672	0.37	cps
Iron	54-2	5689616	5757142	5769947	5738902	0.75	cps
Iron	56-2	106034252	104652578	104422102	105036311	0.83	cps
Iron	57-2	2695492	2694752	2717893	2702713	0.49	cps
Krypton	83-1	423	430	397	417	4.23	cps
Lead	206-1	2187	2070	2257	2171	4.34	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1837	1813	1780	1810	1.57	cps
Lead	208-1	8258	8004	8301	8188	1.96	cps
Lithium	6-1	2345117	2449994	2359286	2384799	2.39	cps
Magnesium	24-2	2342298	2310806	2288618	2313908	1.17	cps
Manganese	55-2	3405201	3364551	3337646	3369133	1.01	cps
Molybdenum	94-1	1047	1073	1167	1096	5.75	cps
Molybdenum	95-1	593	653	633	627	4.88	cps
Molybdenum	96-1	2007	2030	2067	2035	1.49	cps
Molybdenum	97-1	277	293	260	277	6.02	cps
Molybdenum	98-1	720	690	643	684	5.65	cps
Neodymium	150-1	27575	27775	27632	27661	0.37	cps
Neodymium	150-2	7736	7882	7936	7851	1.32	cps
Nickel	60-2	25603	25476	25834	25638	0.71	cps
Phosphorus	31-2	123	140	153	139	10.82	cps
Potassium	39-2	101315	100947	100963	101075	0.21	cps
Rhodium	103-1	6882159	6873556	7010886	6922200	1.11	cps
Rhodium	103-2	3081526	3011690	3048849	3047355	1.15	cps
Scandium	45-1	4950014	4990996	5147062	5029357	2.07	cps
Scandium	45-2	105759	107152	106595	106502	0.66	cps
Selenium	82-1	47	7	140	64	106.16	cps
Selenium	77-2	47	77	43	56	33.05	cps
Selenium	78-2	70	53	70	64	14.93	cps
Silicon	28-1	74991157	75418026	75510354	75306512	0.37	cps
Silver	107-1	210	257	217	228	11.08	cps
Silver	109-1	183	150	143	159	13.49	cps
Sodium	23-2	4313614	4278236	4260830	4284227	0.63	cps
Strontium	86-1	670506	674494	671398	672133	0.31	cps
Strontium	88-1	6087333	6227125	6139549	6151336	1.15	cps
Sulfur	34-1	5092315	5058288	5086389	5078997	0.36	cps
Terbium	159-1	8817329	8638452	8529694	8661825	1.68	cps
Terbium	159-2	3409525	3382189	3280982	3357565	2.02	cps
Thallium	203-1	467	490	463	473	3.07	cps
Thallium	205-1	1160	1177	1020	1119	7.69	cps
Tin	118-1	4804	5024	4701	4843	3.41	cps
Titanium	47-1	1733	1653	1830	1739	5.09	cps
Uranium	238-1	18484	19058	18594	18712	1.63	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:04:59	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7405	7195	7269	7290	1.46	cps
Ytterbium	172-1	15606	15172	15619	15466	1.65	cps
Ytterbium	172-2	7222	7012	6919	7051	2.20	cps
Ytterbium	176-1	10057	10124	10034	10072	0.46	cps
Ytterbium	176-2	4758	4698	4791	4749	1.00	cps
Yttrium	89-1	14219630	14356979	14568619	14381743	1.22	cps
Yttrium	89-2	1119087	1127651	1122521	1123086	0.38	cps
Zinc	66-2	84761	84051	85235	84682	0.70	cps
Zirconium	90-1	1650	1663	1800	1705	4.87	cps
Zirconium	91-1	397	387	353	379	5.99	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	71505	70098	68290	69964	2.30	cps
Antimony	121-1	537	400	437	458	15.45	cps
Arsenic	75-2	177	157	163	166	6.15	cps
Barium	135-1	77356	79706	78445	78502	1.50	cps
Barium	137-1	133599	135244	138244	135696	1.74	cps
Beryllium	9-1	412	399	424	412	3.04	cps
Bismuth	209-1	4945979	4548148	3414862	4302996	18.46	cps
Bismuth	209-2	2340313	2367690	2330237	2346080	0.83	cps
Bromine	81-1	31876	32000	31586	31821	0.67	cps
Cadmium	108-1	50	53	43	49	10.42	cps
Cadmium	106-1	4424	4624	3317	4122	17.08	cps
Cadmium	111-1	3542	3646	2698	3296	15.77	cps
Calcium	43-1	3526867	3610481	3600424	3579257	1.28	cps
Calcium	44-1	57020811	58112207	58385472	57839497	1.25	cps
Carbon	12-1	4456916	4435896	4532043	4474952	1.13	cps
Carbon	12-2	29984	30612	30315	30303	1.04	cps
Chlorine	35-1	462530	454411	449663	455534	1.43	cps
Chlorine	35-2	1923	1910	1953	1929	1.15	cps
Chromium	52-2	2090	2144	2190	2141	2.34	cps
Cobalt	59-2	236954	237136	238721	237604	0.41	cps
Copper	63-2	46513	47285	46706	46835	0.86	cps
Dysprosium	156-1	31173	30983	31888	31348	1.52	cps
Dysprosium	156-2	12393	12553	12529	12491	0.69	cps
Erbium	164-1	39495	40799	40418	40237	1.67	cps
Erbium	164-2	15506	15673	15419	15532	0.83	cps
Gadolinium	160-1	30775	31915	31862	31517	2.04	cps
Gadolinium	160-2	14682	14615	14281	14526	1.48	cps
Holmium	165-1	8599772	8181503	5765662	7515646	20.36	cps
Holmium	165-2	3358545	3388026	3335382	3360651	0.79	cps
Indium	115-1	7429866	7058204	4973994	6487354	20.40	cps
Indium	115-2	798833	809745	793477	800685	1.04	cps
Iron	54-2	5712737	5663927	5647081	5674582	0.60	cps
Iron	56-2	102968448	104449322	104927655	104115142	0.98	cps
Iron	57-2	2660701	2708077	2646249	2671676	1.21	cps
Krypton	83-1	410	440	443	431	4.26	cps
Lead	206-1	2570	2517	2664	2584	2.87	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2177	2264	2070	2170	4.46	cps
Lead	208-1	9955	10108	9888	9984	1.13	cps
Lithium	6-1	2268661	2228972	1557377	2018336	19.80	cps
Magnesium	24-2	2330802	2336257	2289714	2318925	1.10	cps
Manganese	55-2	3309192	3342765	3317866	3323274	0.52	cps
Molybdenum	94-1	903	1000	967	957	5.13	cps
Molybdenum	95-1	583	673	573	610	9.03	cps
Molybdenum	96-1	1973	1893	2004	1957	2.91	cps
Molybdenum	97-1	267	253	273	264	3.85	cps
Molybdenum	98-1	570	590	553	571	3.21	cps
Neodymium	150-1	27849	27632	28173	27885	0.98	cps
Neodymium	150-2	7839	7592	7906	7779	2.12	cps
Nickel	60-2	24585	25439	25366	25130	1.89	cps
Phosphorus	31-2	123	93	110	109	13.81	cps
Potassium	39-2	102075	101369	101044	101496	0.52	cps
Rhodium	103-1	6898322	6616642	4566156	6027040	21.12	cps
Rhodium	103-2	2896294	2992175	2918645	2935705	1.71	cps
Scandium	45-1	5039121	4867532	3307896	4404850	21.65	cps
Scandium	45-2	102573	104191	102718	103161	0.87	cps
Selenium	82-1	47	70	100	72	37.02	cps
Selenium	77-2	60	53	67	60	11.12	cps
Selenium	78-2	77	83	73	78	6.55	cps
Silicon	28-1	73942689	72662386	76162529	74255868	2.38	cps
Silver	107-1	230	197	183	203	11.82	cps
Silver	109-1	137	173	133	148	15.02	cps
Sodium	23-2	4276160	4280577	4226249	4260995	0.71	cps
Strontium	86-1	665844	668713	669843	668133	0.31	cps
Strontium	88-1	6035468	6153316	6068059	6085614	1.00	cps
Sulfur	34-1	5016069	5054482	5055806	5042119	0.45	cps
Terbium	159-1	8541244	8200064	5812725	7518011	19.77	cps
Terbium	159-2	3255069	3317881	3220324	3264425	1.51	cps
Thallium	203-1	433	483	403	440	9.18	cps
Thallium	205-1	950	920	1037	969	6.25	cps
Tin	118-1	4618	4891	4587	4699	3.56	cps
Titanium	47-1	1803	1580	1633	1672	6.98	cps
Uranium	238-1	17906	18317	19221	18481	3.64	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20DUPDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325DUPI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:08:13	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7135	7025	7499	7220	3.43	cps
Ytterbium	172-1	15052	15389	15506	15316	1.54	cps
Ytterbium	172-2	7302	6979	7342	7208	2.77	cps
Ytterbium	176-1	9927	10264	10081	10091	1.67	cps
Ytterbium	176-2	4437	4641	4818	4632	4.11	cps
Yttrium	89-1	14350416	13806991	9958668	12705358	18.84	cps
Yttrium	89-2	1078992	1111552	1082712	1091085	1.63	cps
Zinc	66-2	84527	84054	84182	84254	0.29	cps
Zirconium	90-1	1487	1740	1537	1588	8.45	cps
Zirconium	91-1	350	420	367	379	9.65	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14714	14948	14554	14739	1.34	cps
Antimony	121-1	4271	4281	4347	4300	0.97	cps
Arsenic	75-2	33	37	40	37	9.10	cps
Barium	135-1	16040	16323	16236	16200	0.90	cps
Barium	137-1	26747	27585	27979	27437	2.29	cps
Beryllium	9-1	130	164	146	147	11.51	cps
Bismuth	209-1	4778364	4969686	5044698	4930916	2.79	cps
Bismuth	209-2	2447466	2422444	2436313	2435408	0.51	cps
Bromine	81-1	32247	31626	31636	31836	1.12	cps
Cadmium	108-1	30	50	27	36	35.49	cps
Cadmium	106-1	4431	4597	4501	4510	1.86	cps
Cadmium	111-1	3177	3307	3229	3237	2.01	cps
Calcium	43-1	726589	732052	734202	730948	0.54	cps
Calcium	44-1	12089136	11943159	12115102	12049133	0.77	cps
Carbon	12-1	4363089	4349874	4270641	4327868	1.16	cps
Carbon	12-2	29039	28494	28581	28705	1.02	cps
Chlorine	35-1	423321	417414	420727	420488	0.70	cps
Chlorine	35-2	1723	1800	1630	1718	4.96	cps
Chromium	52-2	1900	1820	1787	1836	3.17	cps
Cobalt	59-2	50295	50011	49422	49909	0.89	cps
Copper	63-2	11855	11398	11481	11578	2.10	cps
Dysprosium	156-1	6438	6432	6175	6348	2.37	cps
Dysprosium	156-2	2594	2684	2527	2601	3.02	cps
Erbium	164-1	8012	8239	8416	8223	2.46	cps
Erbium	164-2	3334	3334	3230	3299	1.81	cps
Gadolinium	160-1	6125	6542	6452	6373	3.44	cps
Gadolinium	160-2	3160	3007	3044	3070	2.61	cps
Holmium	165-1	8166388	8472679	8268063	8302377	1.88	cps
Holmium	165-2	3469633	3446359	3416324	3444105	0.78	cps
Indium	115-1	7501080	7432235	7370515	7434610	0.88	cps
Indium	115-2	838153	842559	842005	840905	0.29	cps
Iron	54-2	1164164	1152278	1139663	1152035	1.06	cps
Iron	56-2	21987086	21813665	21132848	21644533	2.09	cps
Iron	57-2	533633	531260	521928	528941	1.17	cps
Krypton	83-1	293	310	333	312	6.44	cps
Lead	206-1	1267	1377	1310	1318	4.20	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1153	1157	1110	1140	2.28	cps
Lead	208-1	5170	5170	4954	5098	2.45	cps
Lithium	6-1	2294275	2271165	2252541	2272660	0.92	cps
Magnesium	24-2	479482	474308	474113	475968	0.64	cps
Manganese	55-2	691561	691187	676114	686287	1.28	cps
Molybdenum	94-1	663	737	720	707	5.44	cps
Molybdenum	95-1	363	380	360	368	2.91	cps
Molybdenum	96-1	593	727	633	651	10.51	cps
Molybdenum	97-1	190	140	190	173	16.65	cps
Molybdenum	98-1	383	373	337	364	6.74	cps
Neodymium	150-1	5481	5885	5688	5685	3.55	cps
Neodymium	150-2	1557	1613	1513	1561	3.21	cps
Nickel	60-2	6051	5891	5915	5952	1.45	cps
Phosphorus	31-2	123	117	183	141	26.02	cps
Potassium	39-2	41386	41777	41259	41474	0.65	cps
Rhodium	103-1	6965857	7005098	6880856	6950603	0.91	cps
Rhodium	103-2	3097664	3105750	3100044	3101153	0.13	cps
Scandium	45-1	5058250	4965158	5022953	5015454	0.94	cps
Scandium	45-2	107374	107694	107035	107368	0.31	cps
Selenium	82-1	43	90	20	51	69.74	cps
Selenium	77-2	7	10	13	10	33.30	cps
Selenium	78-2	17	37	50	34	48.70	cps
Silicon	28-1	15622971	16061256	15789817	15824681	1.40	cps
Silver	107-1	190	217	140	182	21.36	cps
Silver	109-1	153	167	150	157	5.63	cps
Sodium	23-2	936734	927950	928257	930980	0.54	cps
Strontium	86-1	134684	138573	139532	137596	1.87	cps
Strontium	88-1	1201115	1215283	1204668	1207022	0.61	cps
Sulfur	34-1	1528851	1560902	1558431	1549395	1.15	cps
Terbium	159-1	8468007	8619177	8643565	8576916	1.11	cps
Terbium	159-2	3352060	3410529	3373119	3378569	0.88	cps
Thallium	203-1	243	320	357	307	18.86	cps
Thallium	205-1	920	843	823	862	5.92	cps
Tin	118-1	4174	4367	4384	4309	2.71	cps
Titanium	47-1	703	677	613	664	6.96	cps
Uranium	238-1	3874	3851	4091	3938	3.36	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20LDL2X50	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325LDL2	Dilution Factor :	50
Date & Time Acquired :	2025-04-14 17:11:26	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1650	1483	1370	1501	9.38	cps
Ytterbium	172-1	3090	3237	3210	3179	2.46	cps
Ytterbium	172-2	1423	1493	1497	1471	2.82	cps
Ytterbium	176-1	2837	2674	3024	2845	6.16	cps
Ytterbium	176-2	1107	1223	1187	1172	5.09	cps
Yttrium	89-1	13389910	13979734	13735890	13701845	2.16	cps
Yttrium	89-2	1097411	1087468	1083034	1089304	0.68	cps
Zinc	66-2	18923	19080	18622	18875	1.23	cps
Zirconium	90-1	1450	1413	1187	1350	10.57	cps
Zirconium	91-1	260	280	283	274	4.60	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4991550	4976728	4959403	4975894	0.32	cps
Antimony	121-1	12780103	13084331	13291318	13051917	1.97	cps
Arsenic	75-2	305053	305371	307434	305953	0.42	cps
Barium	135-1	15550766	15678710	15804396	15677957	0.81	cps
Barium	137-1	26916544	27100778	26952371	26989898	0.36	cps
Beryllium	9-1	2739951	2714598	2752308	2735619	0.70	cps
Bismuth	209-1	4068738	4137750	4128858	4111782	0.91	cps
Bismuth	209-2	2066706	2073870	2033612	2058063	1.04	cps
Bromine	81-1	30293	30841	30647	30593	0.91	cps
Cadmium	108-1	243083	244834	246660	244859	0.73	cps
Cadmium	106-1	352476	361595	363334	359135	1.62	cps
Cadmium	111-1	3280727	3232881	3202861	3238823	1.21	cps
Calcium	43-1	20797786	21016684	21236420	21016964	1.04	cps
Calcium	44-1	343134315	343238902	344542662	343638626	0.23	cps
Carbon	12-1	4943371	5309858	5396978	5216736	4.61	cps
Carbon	12-2	43260	43992	43738	43664	0.85	cps
Chlorine	35-1	425223	423746	426512	425160	0.33	cps
Chlorine	35-2	1910	1830	1917	1886	2.56	cps
Chromium	52-2	3206516	3195482	3207200	3203066	0.21	cps
Cobalt	59-2	5635719	5623908	5652848	5637492	0.26	cps
Copper	63-2	41174409	41922474	42602571	41899818	1.70	cps
Dysprosium	156-1	737	697	620	684	8.66	cps
Dysprosium	156-2	143	173	167	161	9.78	cps
Erbium	164-1	633	633	567	611	6.30	cps
Erbium	164-2	233	207	280	240	15.47	cps
Gadolinium	160-1	440	423	433	432	1.94	cps
Gadolinium	160-2	220	163	200	194	14.78	cps
Holmium	165-1	7389741	7540527	7676179	7535482	1.90	cps
Holmium	165-2	3252832	3224441	3245166	3240813	0.45	cps
Indium	115-1	6209516	6198132	6342680	6250109	1.29	cps
Indium	115-2	688752	694883	697256	693630	0.63	cps
Iron	54-2	30167060	30256948	30505090	30309699	0.58	cps
Iron	56-2	556029738	563711072	562695072	560811961	0.74	cps
Iron	57-2	14179578	14280880	14255744	14238734	0.37	cps
Krypton	83-1	360	427	457	414	11.94	cps
Lead	206-1	43119337	43490996	43413944	43341426	0.45	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	36351868	36567394	36449478	36456247	0.30	cps
Lead	208-1	168296560	167971123	168260581	168176088	0.11	cps
Lithium	6-1	2007157	2183221	2177034	2122471	4.71	cps
Magnesium	24-2	88317315	87974409	87955015	88082246	0.23	cps
Manganese	55-2	13389811	13306110	13411661	13369194	0.42	cps
Molybdenum	94-1	46680626	47696121	47936246	47437664	1.41	cps
Molybdenum	95-1	67936579	67248204	68952571	68045785	1.26	cps
Molybdenum	96-1	73047346	73448789	75066211	73854115	1.45	cps
Molybdenum	97-1	41008004	42071817	42042459	41707427	1.45	cps
Molybdenum	98-1	106466882	110383405	111105785	109318691	2.28	cps
Neodymium	150-1	1240	1283	1263	1262	1.72	cps
Neodymium	150-2	87	70	147	101	39.88	cps
Nickel	60-2	1521137	1569884	1563641	1551554	1.71	cps
Phosphorus	31-2	51515	51093	51902	51503	0.79	cps
Potassium	39-2	30339501	29760956	30305842	30135433	1.08	cps
Rhodium	103-1	5631614	5870594	5860548	5787585	2.34	cps
Rhodium	103-2	2560013	2556407	2575608	2564009	0.40	cps
Scandium	45-1	4424765	4443109	4548664	4472179	1.50	cps
Scandium	45-2	101401	100562	102063	101342	0.74	cps
Selenium	82-1	193180	192894	194019	193364	0.30	cps
Selenium	77-2	3881	4064	3851	3932	2.94	cps
Selenium	78-2	13396	13773	13577	13582	1.39	cps
Silicon	28-1	8851924	9013347	9091128	8985466	1.36	cps
Silver	107-1	15507881	15711059	16047446	15755462	1.73	cps
Silver	109-1	14835787	14828759	14752719	14805755	0.31	cps
Sodium	23-2	178391211	178109571	179460177	178653653	0.40	cps
Strontium	86-1	4381744	4487901	4513792	4461146	1.57	cps
Strontium	88-1	38498012	39167117	38656439	38773856	0.90	cps
Sulfur	34-1	1695987	1662022	1668289	1675433	1.08	cps
Terbium	159-1	7737051	7810596	8049328	7865659	2.08	cps
Terbium	159-2	3060138	3110632	3052656	3074475	1.03	cps
Thallium	203-1	10443918	10629350	10718108	10597126	1.32	cps
Thallium	205-1	25097064	25245945	25141613	25161540	0.30	cps
Tin	118-1	10626319	10620356	10850696	10699123	1.23	cps
Titanium	47-1	19430567	19897236	19715337	19681047	1.20	cps
Uranium	238-1	32151478	32169700	32065092	32128756	0.17	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:16:24	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2441382	2398204	2440091	2426559	1.01	cps
Ytterbium	172-1	810	800	847	819	3.00	cps
Ytterbium	172-2	443	370	383	399	9.79	cps
Ytterbium	176-1	52614	53501	53635	53250	1.04	cps
Ytterbium	176-2	22032	21281	22322	21878	2.46	cps
Yttrium	89-1	11981849	12468746	12372416	12274337	2.10	cps
Yttrium	89-2	980424	977885	983176	980495	0.27	cps
Zinc	66-2	4658357	4724230	4825100	4735895	1.77	cps
Zirconium	90-1	23605334	23986489	23932408	23841410	0.87	cps
Zirconium	91-1	5253547	5324348	5375130	5317675	1.15	cps

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On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	453	383	393	410	9.24	cps
Antimony	121-1	1950	1570	1127	1549	26.61	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	307	303	340	317	6.40	cps
Barium	137-1	573	530	490	531	7.85	cps
Beryllium	9-1	224	207	192	208	7.52	cps
Bismuth	209-1	4857031	4908140	4709098	4824756	2.14	cps
Bismuth	209-2	2435299	2498892	2478786	2470992	1.32	cps
Bromine	81-1	31659	30964	30851	31158	1.40	cps
Cadmium	108-1	40	20	7	22	75.49	cps
Cadmium	106-1	4634	4561	4454	4550	1.99	cps
Cadmium	111-1	3319	3292	3220	3277	1.57	cps
Calcium	43-1	1660	1600	1567	1609	2.94	cps
Calcium	44-1	42623	41433	41159	41738	1.86	cps
Carbon	12-1	4731599	4825517	4676443	4744520	1.59	cps
Carbon	12-2	30555	31617	31310	31161	1.75	cps
Chlorine	35-1	410307	409469	404449	408075	0.78	cps
Chlorine	35-2	1803	1803	1870	1826	2.11	cps
Chromium	52-2	1613	1423	1523	1520	6.25	cps
Cobalt	59-2	157	160	163	160	2.08	cps
Copper	63-2	2534	2530	2744	2602	4.70	cps
Dysprosium	156-1	10	20	17	16	32.73	cps
Dysprosium	156-2	7	0	7	4	86.60	cps
Erbium	164-1	40	90	37	56	53.77	cps
Erbium	164-2	20	17	20	19	10.18	cps
Gadolinium	160-1	57	73	47	59	22.87	cps
Gadolinium	160-2	20	10	20	17	34.64	cps
Holmium	165-1	8182642	8105082	7919676	8069133	1.67	cps
Holmium	165-2	3499797	3496177	3493960	3496645	0.08	cps
Indium	115-1	7259758	7230155	7100924	7196945	1.17	cps
Indium	115-2	840941	838856	827518	835771	0.86	cps
Iron	54-2	1190	1223	1373	1262	7.74	cps
Iron	56-2	17901	17698	17324	17641	1.66	cps
Iron	57-2	487	463	420	457	7.41	cps
Krypton	83-1	290	380	367	346	14.06	cps
Lead	206-1	2607	2464	2267	2446	6.98	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2274	2284	2134	2230	3.76	cps
Lead	208-1	10365	9842	9385	9864	4.97	cps
Lithium	6-1	2471205	2543384	2403075	2472555	2.84	cps
Magnesium	24-2	1620	1667	1530	1606	4.33	cps
Manganese	55-2	1413	1277	1333	1341	5.12	cps
Molybdenum	94-1	2007	1917	1943	1956	2.36	cps
Molybdenum	95-1	1620	1480	1270	1457	12.09	cps
Molybdenum	96-1	1653	1573	1490	1572	5.20	cps
Molybdenum	97-1	870	720	660	750	14.42	cps
Molybdenum	98-1	2230	1943	1760	1978	11.98	cps
Neodymium	150-1	3	13	13	10	57.75	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	793	803	850	816	3.71	cps
Phosphorus	31-2	117	133	120	123	7.15	cps
Potassium	39-2	26574	26905	26284	26588	1.17	cps
Rhodium	103-1	6806890	6851572	6604163	6754209	1.95	cps
Rhodium	103-2	3136765	3126999	3064444	3109402	1.26	cps
Scandium	45-1	5043093	4989340	4704702	4912378	3.70	cps
Scandium	45-2	104970	106293	106938	106067	0.95	cps
Selenium	82-1	70	-27	33	26	190.98	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	30	23	37	30	22.23	cps
Silicon	28-1	513818	515550	510214	513194	0.53	cps
Silver	107-1	840	910	753	834	9.41	cps
Silver	109-1	770	713	693	726	5.48	cps
Sodium	23-2	67964	66189	65496	66550	1.91	cps
Strontium	86-1	653	717	677	682	4.70	cps
Strontium	88-1	1240	1043	1130	1138	8.66	cps
Sulfur	34-1	656463	651496	648094	652018	0.65	cps
Terbium	159-1	8387825	8574064	8149927	8370605	2.54	cps
Terbium	159-2	3362389	3340856	3265617	3322954	1.53	cps
Thallium	203-1	783	710	780	758	5.46	cps
Thallium	205-1	1787	1677	1617	1693	5.09	cps
Tin	118-1	3961	3824	3494	3759	6.38	cps
Titanium	47-1	640	533	653	609	10.80	cps
Uranium	238-1	477	477	407	453	8.91	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:20:34	DataFile Name :	039CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63	47	37	49	27.55	cps
Ytterbium	172-1	50	63	30	48	35.11	cps
Ytterbium	172-2	10	23	30	21	48.24	cps
Ytterbium	176-1	1040	1067	1060	1056	1.31	cps
Ytterbium	176-2	210	277	290	259	16.56	cps
Yttrium	89-1	13391029	13398397	12813294	13200907	2.54	cps
Yttrium	89-2	1077247	1065853	1060264	1067788	0.81	cps
Zinc	66-2	1817	1933	1867	1872	3.13	cps
Zirconium	90-1	3144	3120	2884	3049	4.72	cps
Zirconium	91-1	703	567	573	614	12.54	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	169263	170827	170585	170225	0.49	cps
Antimony	121-1	1388249	1397651	1410302	1398734	0.79	cps
Arsenic	75-2	167	177	157	167	6.00	cps
Barium	135-1	1650629	1669068	1666880	1662193	0.61	cps
Barium	137-1	2826874	2857515	2851351	2845247	0.57	cps
Beryllium	9-1	310957	313551	311247	311918	0.46	cps
Bismuth	209-1	4873742	4885879	4914258	4891293	0.43	cps
Bismuth	209-2	2378238	2389065	2357431	2374911	0.68	cps
Bromine	81-1	31733	31572	31980	31762	0.65	cps
Cadmium	108-1	27234	27300	26753	27096	1.10	cps
Cadmium	106-1	44588	45491	45729	45270	1.33	cps
Cadmium	111-1	357820	359469	364583	360624	0.98	cps
Calcium	43-1	3992278	4011037	4113872	4039063	1.62	cps
Calcium	44-1	65823854	64307367	65704536	65278586	1.29	cps
Carbon	12-1	4504176	4414603	4481422	4466733	1.04	cps
Carbon	12-2	30051	29633	29667	29784	0.78	cps
Chlorine	35-1	8773630	9438313	9993734	9401892	6.50	cps
Chlorine	35-2	48782	50344	50950	50025	2.24	cps
Chromium	52-2	328419	327667	328624	328237	0.15	cps
Cobalt	59-2	851269	852085	853492	852282	0.13	cps
Copper	63-2	5077941	5187043	5011706	5092230	1.74	cps
Dysprosium	156-1	30197	30187	30338	30241	0.28	cps
Dysprosium	156-2	12533	12389	12469	12464	0.58	cps
Erbium	164-1	38806	40796	39552	39718	2.53	cps
Erbium	164-2	15606	15633	15212	15484	1.52	cps
Gadolinium	160-1	29873	31417	31527	30939	2.99	cps
Gadolinium	160-2	14918	14672	14775	14788	0.84	cps
Holmium	165-1	8414587	8482468	8329717	8408924	0.91	cps
Holmium	165-2	3469707	3496269	3410875	3458950	1.26	cps
Indium	115-1	7345283	7443904	7376075	7388421	0.68	cps
Indium	115-2	823797	825421	822377	823865	0.18	cps
Iron	54-2	6300919	6174836	6177989	6217915	1.16	cps
Iron	56-2	115795052	116982748	117608865	116795555	0.79	cps
Iron	57-2	2964430	3023747	2944315	2977497	1.39	cps
Krypton	83-1	450	383	387	407	9.24	cps
Lead	206-1	4995167	5007974	4976163	4993101	0.32	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4284635	4312587	4286152	4294458	0.37	cps
Lead	208-1	19632316	19644846	19598539	19625234	0.12	cps
Lithium	6-1	2300514	2355071	2451904	2369163	3.24	cps
Magnesium	24-2	4224025	4213829	4242504	4226786	0.34	cps
Manganese	55-2	4782126	4766296	4858656	4802359	1.03	cps
Molybdenum	94-1	2509213	2554828	2566830	2543623	1.20	cps
Molybdenum	95-1	2767197	2770370	2787874	2775147	0.40	cps
Molybdenum	96-1	3079755	3128017	3168236	3125336	1.42	cps
Molybdenum	97-1	1675017	1703084	1685514	1687871	0.84	cps
Molybdenum	98-1	4329545	4394895	4379291	4367910	0.78	cps
Neodymium	150-1	27572	27555	28086	27738	1.09	cps
Neodymium	150-2	7869	7899	7532	7767	2.62	cps
Nickel	60-2	194765	194883	193674	194441	0.34	cps
Phosphorus	31-2	137	150	93	127	23.39	cps
Potassium	39-2	698369	698119	696384	697624	0.15	cps
Rhodium	103-1	6786244	6931602	6966760	6894869	1.39	cps
Rhodium	103-2	3034356	3051807	2990337	3025500	1.05	cps
Scandium	45-1	5055233	5006504	5104733	5055490	0.97	cps
Scandium	45-2	105339	106652	106421	106137	0.66	cps
Selenium	82-1	22285	23420	23030	22912	2.52	cps
Selenium	77-2	517	520	517	518	0.37	cps
Selenium	78-2	1530	1670	1593	1598	4.39	cps
Silicon	28-1	75530109	74813336	75447576	75263673	0.52	cps
Silver	107-1	252768	255799	261059	256542	1.64	cps
Silver	109-1	240421	247839	244091	244117	1.52	cps
Sodium	23-2	8250092	8270514	8062447	8194351	1.40	cps
Strontium	86-1	1217242	1224299	1215620	1219054	0.38	cps
Strontium	88-1	11082494	11152449	11122394	11119112	0.32	cps
Sulfur	34-1	5113724	5149778	5108149	5123884	0.44	cps
Terbium	159-1	8714681	8639685	8678543	8677636	0.43	cps
Terbium	159-2	3400747	3333647	3424580	3386325	1.39	cps
Thallium	203-1	1134376	1137391	1139772	1137179	0.24	cps
Thallium	205-1	2828711	2894154	2872949	2865271	1.17	cps
Tin	118-1	1030570	1046071	1037614	1038085	0.75	cps
Titanium	47-1	2524	2430	2264	2406	5.48	cps
Uranium	238-1	3496179	3576737	3540114	3537677	1.14	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:24:11	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	266802	267184	265025	266337	0.43	cps
Ytterbium	172-1	14812	15276	15152	15080	1.59	cps
Ytterbium	172-2	6932	7072	7225	7076	2.07	cps
Ytterbium	176-1	15326	15666	15346	15446	1.24	cps
Ytterbium	176-2	7172	7029	6889	7030	2.02	cps
Yttrium	89-1	14472650	14482617	14334824	14430031	0.57	cps
Yttrium	89-2	1133250	1124348	1129370	1128989	0.40	cps
Zinc	66-2	622440	617661	621247	620449	0.40	cps
Zirconium	90-1	2632628	2640395	2602154	2625059	0.77	cps
Zirconium	91-1	552409	556198	560691	556433	0.75	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	178142	179046	177909	178366	0.34	cps
Antimony	121-1	1443777	1465734	1469942	1459818	0.96	cps
Arsenic	75-2	187	193	163	181	8.70	cps
Barium	135-1	1741366	1745947	1735470	1740928	0.30	cps
Barium	137-1	2957661	2899595	3049245	2968834	2.54	cps
Beryllium	9-1	316493	319351	320539	318795	0.65	cps
Bismuth	209-1	4796716	4880485	4778520	4818574	1.13	cps
Bismuth	209-2	2397003	2395181	2430710	2407631	0.83	cps
Bromine	81-1	31512	31452	32374	31779	1.62	cps
Cadmium	108-1	27888	28132	28630	28217	1.34	cps
Cadmium	106-1	46465	47013	47756	47078	1.38	cps
Cadmium	111-1	369596	377951	376302	374616	1.18	cps
Calcium	43-1	4235271	4116345	4156518	4169378	1.45	cps
Calcium	44-1	69222719	68508944	68446929	68726197	0.63	cps
Carbon	12-1	4392492	4419674	4364972	4392379	0.62	cps
Carbon	12-2	30682	29680	30064	30142	1.68	cps
Chlorine	35-1	9966448	10658443	11152051	10592314	5.62	cps
Chlorine	35-2	52933	54817	54649	54133	1.93	cps
Chromium	52-2	347502	339486	338753	341914	1.42	cps
Cobalt	59-2	878784	883142	893663	885196	0.86	cps
Copper	63-2	5390545	5274841	5389051	5351479	1.24	cps
Dysprosium	156-1	31708	32055	32459	32074	1.17	cps
Dysprosium	156-2	12626	13160	13157	12981	2.37	cps
Erbium	164-1	41073	41551	42036	41554	1.16	cps
Erbium	164-2	16430	16063	16070	16188	1.30	cps
Gadolinium	160-1	31591	31764	33041	32132	2.46	cps
Gadolinium	160-2	15489	15472	15265	15409	0.81	cps
Holmium	165-1	8350067	8296622	8446728	8364472	0.91	cps
Holmium	165-2	3547805	3473013	3494053	3504957	1.10	cps
Indium	115-1	7374599	7327262	7471499	7391120	0.99	cps
Indium	115-2	823976	823447	824593	824005	0.07	cps
Iron	54-2	6406384	6483863	6420916	6437055	0.64	cps
Iron	56-2	119498212	118373348	119759115	119210225	0.62	cps
Iron	57-2	3032823	3020416	3080216	3044485	1.04	cps
Krypton	83-1	410	487	447	448	8.56	cps
Lead	206-1	5164215	5159080	5221226	5181507	0.67	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4431086	4432000	4593352	4485479	2.08	cps
Lead	208-1	20163649	20113165	20552222	20276346	1.18	cps
Lithium	6-1	2316363	2374383	2281640	2324129	2.02	cps
Magnesium	24-2	4394456	4388160	4312293	4364970	1.05	cps
Manganese	55-2	4876208	4902971	4866097	4881759	0.39	cps
Molybdenum	94-1	2577020	2601898	2603370	2594096	0.57	cps
Molybdenum	95-1	2849954	2836851	2862125	2849644	0.44	cps
Molybdenum	96-1	3223243	3234445	3195016	3217568	0.63	cps
Molybdenum	97-1	1789482	1756932	1769478	1771964	0.93	cps
Molybdenum	98-1	4566317	4535935	4554755	4552335	0.34	cps
Neodymium	150-1	27969	28537	29198	28568	2.15	cps
Neodymium	150-2	7929	8163	8126	8073	1.56	cps
Nickel	60-2	201957	201561	202589	202036	0.26	cps
Phosphorus	31-2	147	153	137	146	5.76	cps
Potassium	39-2	720821	729958	720097	723625	0.76	cps
Rhodium	103-1	6913685	6822636	6869993	6868771	0.66	cps
Rhodium	103-2	3025797	3028265	3009012	3021025	0.35	cps
Scandium	45-1	5080214	5104256	5093014	5092495	0.24	cps
Scandium	45-2	108020	107522	106333	107292	0.81	cps
Selenium	82-1	24065	23367	23584	23672	1.51	cps
Selenium	77-2	517	470	510	499	5.06	cps
Selenium	78-2	1647	1587	1637	1623	1.98	cps
Silicon	28-1	76038831	77370106	77202576	76870504	0.94	cps
Silver	107-1	261296	271281	271351	267976	2.16	cps
Silver	109-1	248659	253816	257065	253180	1.67	cps
Sodium	23-2	8468286	8479016	8513743	8487015	0.28	cps
Strontium	86-1	1255263	1287670	1286345	1276426	1.44	cps
Strontium	88-1	11546476	11898068	11650324	11698290	1.54	cps
Sulfur	34-1	5258199	5242820	5278181	5259734	0.34	cps
Terbium	159-1	8414190	8910874	8671272	8665445	2.87	cps
Terbium	159-2	3378648	3356987	3361349	3365662	0.34	cps
Thallium	203-1	1180461	1175363	1200842	1185555	1.14	cps
Thallium	205-1	2983720	3033638	3021596	3012985	0.86	cps
Tin	118-1	1069370	1087837	1088310	1081839	1.00	cps
Titanium	47-1	2487	2414	2387	2429	2.13	cps
Uranium	238-1	3622476	3681759	3695227	3666487	1.06	cps

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LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20MSDDL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325MSDI	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:27:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	278199	281796	278399	279465	0.72	cps
Ytterbium	172-1	15636	15546	16100	15761	1.89	cps
Ytterbium	172-2	7335	7492	7519	7449	1.33	cps
Ytterbium	176-1	16057	16100	15766	15974	1.14	cps
Ytterbium	176-2	7042	7532	7472	7349	3.64	cps
Yttrium	89-1	14394050	14452157	14663403	14503203	0.98	cps
Yttrium	89-2	1137863	1130986	1142993	1137281	0.53	cps
Zinc	66-2	644454	641438	647734	644542	0.49	cps
Zirconium	90-1	2714690	2743218	2743958	2733955	0.61	cps
Zirconium	91-1	575466	585255	579005	579909	0.85	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	174120	171481	172312	172638	0.78	cps
Antimony	121-1	1415271	1435972	1444028	1431757	1.04	cps
Arsenic	75-2	127	120	150	132	11.91	cps
Barium	135-1	1714199	1668931	1712339	1698490	1.51	cps
Barium	137-1	2881850	2888493	2909204	2893182	0.49	cps
Beryllium	9-1	306212	310820	308425	308486	0.75	cps
Bismuth	209-1	4828906	4915313	5000156	4914792	1.74	cps
Bismuth	209-2	2420348	2367958	2390344	2392883	1.10	cps
Bromine	81-1	32401	32578	32254	32411	0.50	cps
Cadmium	108-1	27371	26786	27591	27249	1.53	cps
Cadmium	106-1	46454	46434	46070	46320	0.47	cps
Cadmium	111-1	359788	368750	367468	365335	1.33	cps
Calcium	43-1	4013705	4145483	4119055	4092748	1.70	cps
Calcium	44-1	66110454	68474331	68867654	67817480	2.20	cps
Carbon	12-1	4358612	4345182	4419740	4374512	0.91	cps
Carbon	12-2	29994	29790	29119	29634	1.54	cps
Chlorine	35-1	10065563	10738204	11262445	10688737	5.61	cps
Chlorine	35-2	53595	53378	53763	53579	0.36	cps
Chromium	52-2	334676	333080	331422	333059	0.49	cps
Cobalt	59-2	872748	872148	870292	871729	0.15	cps
Copper	63-2	5348305	5283807	5219726	5283946	1.22	cps
Dysprosium	156-1	30511	31180	31507	31066	1.63	cps
Dysprosium	156-2	12523	12920	12386	12609	2.20	cps
Erbium	164-1	40348	40348	41080	40592	1.04	cps
Erbium	164-2	15646	15713	15870	15743	0.73	cps
Gadolinium	160-1	31644	31150	31377	31390	0.79	cps
Gadolinium	160-2	15029	15102	14458	14863	2.37	cps
Holmium	165-1	8327606	8228796	8317192	8291198	0.65	cps
Holmium	165-2	3457146	3492889	3444142	3464726	0.73	cps
Indium	115-1	7355765	7465272	7267132	7362723	1.35	cps
Indium	115-2	828489	825775	826737	827000	0.17	cps
Iron	54-2	6417303	6233598	6374309	6341737	1.52	cps
Iron	56-2	117347675	115649792	117597648	116865038	0.91	cps
Iron	57-2	3011662	2989502	2990114	2997093	0.42	cps
Krypton	83-1	380	350	390	373	5.58	cps
Lead	206-1	5039489	5178379	5128076	5115315	1.37	cps

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Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4356275	4334450	4302861	4331195	0.62	cps
Lead	208-1	19699388	19817826	19754164	19757126	0.30	cps
Lithium	6-1	2258259	2372724	2350939	2327307	2.61	cps
Magnesium	24-2	4371771	4405646	4253120	4343512	1.84	cps
Manganese	55-2	4880442	4733498	4823171	4812370	1.54	cps
Molybdenum	94-1	2508582	2543440	2555151	2535724	0.96	cps
Molybdenum	95-1	2858772	2822947	2826300	2836006	0.70	cps
Molybdenum	96-1	3122984	3226270	3167628	3172294	1.63	cps
Molybdenum	97-1	1688111	1795544	1679751	1721135	3.75	cps
Molybdenum	98-1	4391431	4459518	4323228	4391392	1.55	cps
Neodymium	150-1	27979	28714	27732	28142	1.82	cps
Neodymium	150-2	8016	8419	7886	8107	3.43	cps
Nickel	60-2	198842	199368	197124	198445	0.59	cps
Phosphorus	31-2	120	153	137	137	12.20	cps
Potassium	39-2	712512	708227	701969	707569	0.75	cps
Rhodium	103-1	6730162	6960399	6766779	6819114	1.81	cps
Rhodium	103-2	3057390	2980413	2972134	3003312	1.57	cps
Scandium	45-1	5026756	5117477	5089674	5077969	0.92	cps
Scandium	45-2	108546	105034	107935	107172	1.75	cps
Selenium	82-1	23267	23337	22876	23160	1.07	cps
Selenium	77-2	597	517	547	553	7.30	cps
Selenium	78-2	1633	1603	1620	1619	0.93	cps
Silicon	28-1	75180879	75829032	76783294	75931068	1.06	cps
Silver	107-1	258792	261658	267075	262508	1.60	cps
Silver	109-1	244223	247998	250517	247579	1.28	cps
Sodium	23-2	8328259	8505861	8085067	8306396	2.54	cps
Strontium	86-1	1239427	1257248	1257328	1251334	0.82	cps
Strontium	88-1	11201009	11245815	11126249	11191024	0.54	cps
Sulfur	34-1	5110704	5120519	5180216	5137147	0.73	cps
Terbium	159-1	8521643	8950929	8722514	8731695	2.46	cps
Terbium	159-2	3398028	3327698	3383484	3369737	1.10	cps
Thallium	203-1	1149971	1159868	1159243	1156361	0.48	cps
Thallium	205-1	2877424	2940046	2995762	2937744	2.02	cps
Tin	118-1	1061505	1058927	1057519	1059317	0.19	cps
Titanium	47-1	2204	2427	2454	2361	5.81	cps
Uranium	238-1	3586538	3536353	3539070	3553987	0.79	cps

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LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	Q1730-20ADL2X10	Instrumnet Name :	P8
Client Sample ID :	OU4-CF-15-040325ADL2	Dilution Factor :	10
Date & Time Acquired :	2025-04-14 17:30:10	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	272494	275885	273258	273879	0.65	cps
Ytterbium	172-1	15543	15359	15639	15514	0.92	cps
Ytterbium	172-2	6865	6965	7172	7001	2.24	cps
Ytterbium	176-1	15786	16340	15956	16028	1.77	cps
Ytterbium	176-2	6965	7105	7082	7051	1.06	cps
Yttrium	89-1	14190699	14459970	14379478	14343382	0.96	cps
Yttrium	89-2	1146422	1148447	1135773	1143547	0.60	cps
Zinc	66-2	640432	624985	632418	632612	1.22	cps
Zirconium	90-1	2574881	2692948	2709142	2658990	2.76	cps
Zirconium	91-1	557506	573234	566820	565853	1.40	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5066550	5202079	5111422	5126684	1.35	cps
Antimony	121-1	12648034	12753483	12954909	12785475	1.22	cps
Arsenic	75-2	303809	307052	305832	305564	0.54	cps
Barium	135-1	15370063	15510305	15531208	15470525	0.57	cps
Barium	137-1	26401604	26955710	26915638	26757651	1.15	cps
Beryllium	9-1	2666641	2699200	2750371	2705404	1.56	cps
Bismuth	209-1	4161478	4266256	4172110	4199948	1.37	cps
Bismuth	209-2	2079897	2087960	2121081	2096313	1.04	cps
Bromine	81-1	31195	30016	29989	30400	2.27	cps
Cadmium	108-1	242703	242601	246171	243825	0.83	cps
Cadmium	106-1	350922	352968	354464	352785	0.50	cps
Cadmium	111-1	3147872	3172546	3172513	3164310	0.45	cps
Calcium	43-1	21201667	21514251	21646894	21454271	1.07	cps
Calcium	44-1	341076848	353826875	346773848	347225857	1.84	cps
Carbon	12-1	4703418	4868574	4854425	4808806	1.90	cps
Carbon	12-2	38577	37832	38851	38420	1.37	cps
Chlorine	35-1	755050	733341	713734	734041	2.82	cps
Chlorine	35-2	3134	3070	3047	3084	1.45	cps
Chromium	52-2	3192933	3270637	3190462	3218011	1.42	cps
Cobalt	59-2	5584396	5649941	5559619	5597985	0.83	cps
Copper	63-2	42147458	42285019	41492725	41975067	1.01	cps
Dysprosium	156-1	587	620	647	618	4.87	cps
Dysprosium	156-2	227	133	203	188	25.87	cps
Erbium	164-1	553	593	573	573	3.49	cps
Erbium	164-2	250	210	197	219	12.68	cps
Gadolinium	160-1	473	437	507	472	7.41	cps
Gadolinium	160-2	210	247	200	219	11.23	cps
Holmium	165-1	7597847	7896480	7721029	7738452	1.94	cps
Holmium	165-2	3275552	3280484	3257597	3271211	0.37	cps
Indium	115-1	6261690	6372227	6317324	6317080	0.87	cps
Indium	115-2	709095	709807	710516	709806	0.10	cps
Iron	54-2	31298830	31086265	31268197	31217764	0.37	cps
Iron	56-2	569831965	577696925	579600391	575709760	0.90	cps
Iron	57-2	14559811	14861931	14465557	14629100	1.42	cps
Krypton	83-1	323	423	397	381	13.59	cps
Lead	206-1	42907541	43576358	43815873	43433257	1.08	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35969135	36206311	36742187	36305878	1.09	cps
Lead	208-1	165913805	167974954	169152188	167680316	0.98	cps
Lithium	6-1	2098283	2165255	2124387	2129308	1.59	cps
Magnesium	24-2	87696585	88146342	88884492	88242473	0.68	cps
Manganese	55-2	13207257	13389101	13085717	13227358	1.15	cps
Molybdenum	94-1	46939016	47849741	46786593	47191783	1.22	cps
Molybdenum	95-1	67046526	68393571	68036716	67825604	1.03	cps
Molybdenum	96-1	73067277	73800984	74143136	73670466	0.75	cps
Molybdenum	97-1	41230494	41528196	41791905	41516865	0.68	cps
Molybdenum	98-1	107363232	109092245	109306992	108587489	0.98	cps
Neodymium	150-1	1103	1100	1253	1152	7.60	cps
Neodymium	150-2	160	107	63	110	44.02	cps
Nickel	60-2	1541190	1605118	1533040	1559783	2.53	cps
Phosphorus	31-2	51889	51775	51287	51650	0.62	cps
Potassium	39-2	31706109	31382384	30709808	31266100	1.63	cps
Rhodium	103-1	5751877	5951198	5851668	5851581	1.70	cps
Rhodium	103-2	2615689	2611646	2668583	2631973	1.21	cps
Scandium	45-1	4520510	4661812	4562698	4581673	1.58	cps
Scandium	45-2	103805	103486	102032	103108	0.92	cps
Selenium	82-1	190663	192658	193513	192278	0.76	cps
Selenium	77-2	3941	4044	3844	3943	2.54	cps
Selenium	78-2	13356	12979	13610	13315	2.38	cps
Silicon	28-1	18080838	18445197	18383071	18303036	1.06	cps
Silver	107-1	15575765	15724219	15837012	15712332	0.83	cps
Silver	109-1	14674675	14547213	14874846	14698911	1.12	cps
Sodium	23-2	173783671	177436211	177352724	176190868	1.18	cps
Strontium	86-1	4433312	4461727	4438393	4444477	0.34	cps
Strontium	88-1	38914504	38903101	38391179	38736261	0.77	cps
Sulfur	34-1	1622110	1639330	1628708	1630049	0.53	cps
Terbium	159-1	7968367	7839300	7996654	7934773	1.06	cps
Terbium	159-2	3169794	3162841	3138424	3157020	0.52	cps
Thallium	203-1	10388759	10398298	10662911	10483323	1.48	cps
Thallium	205-1	24827919	24836400	25307360	24990560	1.10	cps
Tin	118-1	10388720	10585358	10613842	10529307	1.16	cps
Titanium	47-1	19250805	19330363	19538673	19373280	0.77	cps
Uranium	238-1	31296368	31903219	31677577	31625721	0.97	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:35:18	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2474188	2439008	2449231	2454142	0.74	cps
Ytterbium	172-1	860	840	890	863	2.91	cps
Ytterbium	172-2	387	380	453	407	9.97	cps
Ytterbium	176-1	51888	52695	53702	52762	1.72	cps
Ytterbium	176-2	21601	21574	21928	21701	0.91	cps
Yttrium	89-1	12449585	12580471	12285460	12438505	1.19	cps
Yttrium	89-2	1001078	1005785	1011501	1006121	0.52	cps
Zinc	66-2	4756243	4704652	4715812	4725569	0.57	cps
Zirconium	90-1	23735591	23991458	23698878	23808642	0.67	cps
Zirconium	91-1	5224011	5315300	5290515	5276609	0.89	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	360	373	313	349	9.03	cps
Antimony	121-1	1570	1317	1200	1362	13.89	cps
Arsenic	75-2	7	7	7	7	0.00	cps
Barium	135-1	207	223	247	226	8.91	cps
Barium	137-1	393	400	383	392	2.14	cps
Beryllium	9-1	220	219	190	210	8.10	cps
Bismuth	209-1	5017727	5068465	5026835	5037675	0.54	cps
Bismuth	209-2	2561337	2427595	2547559	2512164	2.93	cps
Bromine	81-1	31024	31255	31044	31108	0.41	cps
Cadmium	108-1	43	43	23	37	31.49	cps
Cadmium	106-1	4374	4527	4441	4447	1.73	cps
Cadmium	111-1	3135	3212	3189	3179	1.25	cps
Calcium	43-1	1370	1410	1427	1402	2.08	cps
Calcium	44-1	38174	37449	37756	37793	0.96	cps
Carbon	12-1	4400306	4374338	4419914	4398186	0.52	cps
Carbon	12-2	29212	29269	29403	29295	0.33	cps
Chlorine	35-1	457842	448654	438093	448197	2.20	cps
Chlorine	35-2	1823	1933	1957	1905	3.74	cps
Chromium	52-2	1577	1623	1620	1607	1.62	cps
Cobalt	59-2	113	140	90	114	21.86	cps
Copper	63-2	2407	2444	2510	2454	2.14	cps
Dysprosium	156-1	10	10	13	11	17.30	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	57	53	73	61	17.53	cps
Erbium	164-2	23	13	20	19	26.96	cps
Gadolinium	160-1	60	50	90	67	31.22	cps
Gadolinium	160-2	10	27	20	19	44.42	cps
Holmium	165-1	8460062	8399325	8413540	8424309	0.38	cps
Holmium	165-2	3503030	3499058	3521003	3507697	0.33	cps
Indium	115-1	7632087	7523877	7583298	7579754	0.71	cps
Indium	115-2	847804	852057	852330	850730	0.30	cps
Iron	54-2	1220	1107	1170	1166	4.87	cps
Iron	56-2	15605	15765	15562	15644	0.69	cps
Iron	57-2	433	323	370	376	14.70	cps
Krypton	83-1	327	303	340	323	5.74	cps
Lead	206-1	2467	2500	2164	2377	7.81	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2007	2080	1873	1987	5.27	cps
Lead	208-1	9632	9571	8755	9319	5.26	cps
Lithium	6-1	2456421	2430014	2438184	2441540	0.55	cps
Magnesium	24-2	1010	1137	990	1046	7.61	cps
Manganese	55-2	22838	22758	23025	22874	0.60	cps
Molybdenum	94-1	1757	1430	1517	1568	10.79	cps
Molybdenum	95-1	1363	1133	1000	1166	15.77	cps
Molybdenum	96-1	1467	1060	1010	1179	21.25	cps
Molybdenum	97-1	630	497	630	586	13.15	cps
Molybdenum	98-1	1667	1343	1327	1446	13.26	cps
Neodymium	150-1	10	20	13	14	35.26	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	770	800	737	769	4.12	cps
Phosphorus	31-2	130	103	123	119	11.68	cps
Potassium	39-2	29487	28598	28368	28818	2.05	cps
Rhodium	103-1	7142289	7150596	7081062	7124649	0.53	cps
Rhodium	103-2	3126264	3146322	3158696	3143760	0.52	cps
Scandium	45-1	5092102	5068524	5061113	5073913	0.32	cps
Scandium	45-2	107539	108838	109611	108663	0.96	cps
Selenium	82-1	17	33	-43	2	1816.48	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	27	33	20	27	24.99	cps
Silicon	28-1	548581	523953	536222	536252	2.30	cps
Silver	107-1	757	810	827	798	4.58	cps
Silver	109-1	787	707	660	718	8.93	cps
Sodium	23-2	72030	71450	69477	70986	1.88	cps
Strontium	86-1	620	577	547	581	6.34	cps
Strontium	88-1	883	887	887	886	0.22	cps
Sulfur	34-1	623358	629136	627736	626743	0.48	cps
Terbium	159-1	8837075	8636875	8791146	8755032	1.20	cps
Terbium	159-2	3421624	3432244	3371112	3408327	0.96	cps
Thallium	203-1	803	777	730	770	4.82	cps
Thallium	205-1	2014	1863	1723	1867	7.77	cps
Tin	118-1	4724	4114	4411	4416	6.91	cps
Titanium	47-1	503	470	507	493	4.11	cps
Uranium	238-1	390	343	317	350	10.61	cps

Reviewed By:JANVI
On:4/16/2025 12:54:43 PM
Inst Id :P8
LB :LB135426

LB Number :	LB135426	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-14 17:39:56	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	40	23	30	29.40	cps
Ytterbium	172-1	47	43	80	57	35.78	cps
Ytterbium	172-2	27	20	27	24	15.75	cps
Ytterbium	176-1	917	1040	1033	997	6.96	cps
Ytterbium	176-2	303	207	273	261	18.95	cps
Yttrium	89-1	13665036	13793027	13696252	13718105	0.49	cps
Yttrium	89-2	1073548	1094006	1086490	1084682	0.95	cps
Zinc	66-2	1643	1823	1727	1731	5.20	cps
Zirconium	90-1	2530	2504	2377	2470	3.32	cps
Zirconium	91-1	620	530	580	577	7.82	cps

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167540

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: 04/10/2025 **Time :** 09:45 **Temp :** 94 °C

End Digest Date: 04/10/2025 **Time :** 11:45 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: IZ

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85182
CCV	30mL	MP85184
CRA	30mL	MP85186
Blank Spike	0.48mL	MP85175
Matrix Spike	0.48mL	MP85175

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85176
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85177
2.5 ppb	S2.5	30mL	MP85178
5.0 ppb	S5.0	30mL	MP85179
7.5 ppb	S7.5	30mL	MP85180
10.0 ppb	S10.0	30mL	MP85181
ICV	ICV	30mL	MP85182
ICB	ICB	30mL	MP85183
CCV	CCV	30mL	MP85184
CCB	CCB	30mL	MP85185
CRI	CRI	30mL	MP85186
CHK STD	CHK STD	30mL	MP85187

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/10/25 @ 12:15	MB - HG Lab	MB - Metal Lab
	Preparation Group	**Analysis Group**

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167540BL	PBW540	30	30	<2	N/A	3-25
PB167540BS	LCS540	30	30	<2	MP85175	26
PB167540TB	LEB540	30	30	<2	N/A	27
Q1730-02	OU4-VSL-15-040325	30	30	<2	N/A	28
Q1730-04	OU4-VSL-16-040325	30	30	<2	N/A	29
Q1730-06	OU4-VSL-17-040325	30	30	<2	N/A	30
Q1730-08	OU4-PCS-TC-21-040325	30	30	<2	N/A	31
Q1730-10	OU4-PCS-TC-22-040325	30	30	<2	N/A	32
Q1730-12	OU4-PCS-TC-23-040325	30	30	<2	N/A	33
Q1730-14	OU4-PCS-TC-24-040325	30	30	<2	N/A	34
Q1730-16	OU4-PCS-TC-25-040325	30	30	<2	N/A	35
Q1730-18	OU4-PCS-TC-26-040325	30	30	<2	N/A	36
Q1730-20	OU4-CF-15-040325	30	30	<2	N/A	37
Q1730-20DUP	OU4-CF-15-040325DUP	30	30	<2	N/A	38
Q1730-20MS	OU4-CF-15-040325MS	30	30	<2	MP85175	39
Q1730-20MSD	OU4-CF-15-040325MSD	30	30	<2	MP85175	40

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167493

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-1

TCLP Filter ID : 115525

Start Prep Date : 04/07/2025 **Time :** 14:00

End Prep Date : 04/08/2025 **Time :** 08:10

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : 16

Supervisor By : 12

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	N/A	WP110806
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
N/A	N/A	N/A
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. q1730-20 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 10:30	JP / TCLP Room	SLB. / Prep Grp
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167502

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: 04/08/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 04/08/2025 **Time :** 15:35 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP85065
Spike Sol 2	1.00	MP85066
Spike Sol 3	1.00	MP85067
Spike Sol 4	1.00	MP85068
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 16:35	SLG. met.dig	metals 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
PB167502BL	PBW502	N/A	50	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167502BS	LCS502	N/A	50	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167502TB	LEB502	N/A	50	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1730-02	OU4-VSL-15-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	13
Q1730-04	OU4-VSL-16-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	14
Q1730-06	OU4-VSL-17-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	15
Q1730-08	OU4-PCS-TC-21-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	16
Q1730-10	OU4-PCS-TC-22-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	17
Q1730-12	OU4-PCS-TC-23-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	18
Q1730-14	OU4-PCS-TC-24-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	19
Q1730-16	OU4-PCS-TC-25-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	20
Q1730-18	OU4-PCS-TC-26-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	21
Q1730-20	OU4-CF-15-040325	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	22
Q1730-20MS	OU4-CF-15-040325MS	<2	50	50	Colorless	Colorless	Clear	Clear	MP85065,MP85066,MP85067,M	24
Q1730-20MSD	OU4-CF-15-040325MSD	<2	50	50	Colorless	Colorless	Clear	Clear	MP85065,MP85066,MP85067,M	25
Q1730-20DUP	OU4-CF-15-040325DUP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	23

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167493

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	Pre Pos
PB167493TB	LEB493	11	N/A	2000	N/A	N/A	N/A	4.23	1.5	T-1
Q1730-02	OU4-VSL-15-040325	01	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-04	OU4-VSL-16-040325	02	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1730-06	OU4-VSL-17-040325	03	100.04	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-08	OU4-PCS-TC-21-040325	04	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1730-10	OU4-PCS-TC-22-040325	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1730-12	OU4-PCS-TC-23-040325	06	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1730-14	OU4-PCS-TC-24-040325	07	100.01	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1730-16	OU4-PCS-TC-25-040325	08	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-18	OU4-PCS-TC-26-040325	09	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1730-20	OU4-CF-15-040325	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 12:41		mohan	OK
2	S0.2	S0.2	CAL2	04/10/25 12:44		mohan	OK
3	S2.5	S2.5	CAL3	04/10/25 12:46		mohan	OK
4	S5	S5	CAL4	04/10/25 12:48		mohan	OK
5	S7.5	S7.5	CAL5	04/10/25 12:50		mohan	OK
6	S10	S10	CAL6	04/10/25 12:53		mohan	OK
7	ICV83	ICV83	ICV	04/10/25 13:01		mohan	OK
8	ICB83	ICB83	ICB	04/10/25 13:03		mohan	OK
9	CCV53	CCV53	CCV	04/10/25 13:06		mohan	OK
10	CCB53	CCB53	CCB	04/10/25 13:08		mohan	OK
11	CRA	CRA	CRDL	04/10/25 13:10		mohan	OK
12	HighStd	HighStd	HIGH STD	04/10/25 13:12		mohan	OK
13	ChkStd	ChkStd	SAM	04/10/25 13:15		mohan	OK
14	PB167539BL	PB167539BL	MB	04/10/25 13:17		mohan	OK
15	PB167539BS	PB167539BS	LCS	04/10/25 13:22		mohan	OK
16	Q1743-04	TP-16	SAM	04/10/25 13:24		mohan	OK
17	Q1743-04DUP	TP-16DUP	DUP	04/10/25 13:27		mohan	OK
18	Q1743-04MS	TP-16MS	MS	04/10/25 13:31		mohan	OK

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Instrument ID: CV1

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Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

19	Q1743-04MSD	TP-16MSD	MSD	04/10/25 13:34		mohan	OK
20	Q1744-02	B-158-SB01	SAM	04/10/25 13:36		mohan	OK
21	CCV54	CCV54	CCV	04/10/25 13:38		mohan	OK
22	CCB54	CCB54	CCB	04/10/25 13:41		mohan	OK
23	Q1744-04	B-158-SB02	SAM	04/10/25 13:43		mohan	OK
24	Q1745-04	IB-6A-WC	SAM	04/10/25 13:45		mohan	OK
25	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		mohan	OK
26	Q1746-02	B-149-SB01	SAM	04/10/25 13:50		mohan	OK
27	Q1746-04	B-149-SB02	SAM	04/10/25 13:52		mohan	OK
28	Q1748-04	IB-1.5-WC	SAM	04/10/25 13:54		mohan	OK
29	Q1748-08	IB-2A-WC	SAM	04/10/25 13:56		mohan	OK
30	Q1749-04	TP-14	SAM	04/10/25 13:59		mohan	OK
31	Q1752-02	TP-1	SAM	04/10/25 14:01		mohan	OK
32	Q1752-04	TP-2	SAM	04/10/25 14:03		mohan	OK
33	CCV55	CCV55	CCV	04/10/25 14:06		mohan	OK
34	CCB55	CCB55	CCB	04/10/25 14:08		mohan	OK
35	Q1752-06	TP-4	SAM	04/10/25 14:10		mohan	OK
36	Q1752-08	TP-3	SAM	04/10/25 14:12		mohan	OK
37	Q1753-04	WC-1	SAM	04/10/25 14:15		mohan	OK
38	Q1753-08	WC-2	SAM	04/10/25 14:17		mohan	OK

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Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

39	Q1754-02	TP-1	SAM	04/10/25 14:19		mohan	OK
40	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 14:21		mohan	OK
41	PB167540BL	PB167540BL	MB	04/10/25 14:24		mohan	OK
42	PB167540BS	PB167540BS	LCS	04/10/25 14:26		mohan	OK
43	Q1730-02	OU4-VSL-15-040325	SAM	04/10/25 14:28		mohan	OK
44	Q1730-04	OU4-VSL-16-040325	SAM	04/10/25 14:31		mohan	OK
45	CCV56	CCV56	CCV	04/10/25 14:36		mohan	OK
46	CCB56	CCB56	CCB	04/10/25 14:38		mohan	OK
47	Q1730-06	OU4-VSL-17-040325	SAM	04/10/25 14:40		mohan	OK
48	Q1730-08	OU4-PCS-TC-21-040	SAM	04/10/25 14:42		mohan	OK
49	Q1730-10	OU4-PCS-TC-22-040	SAM	04/10/25 14:45		mohan	OK
50	Q1730-12	OU4-PCS-TC-23-040	SAM	04/10/25 14:47		mohan	OK
51	Q1730-14	OU4-PCS-TC-24-040	SAM	04/10/25 14:49		mohan	OK
52	Q1730-16	OU4-PCS-TC-25-040	SAM	04/10/25 14:51		mohan	OK
53	Q1730-18	OU4-PCS-TC-26-040	SAM	04/10/25 14:54		mohan	OK
54	Q1730-20	OU4-CF-15-040325	SAM	04/10/25 14:56		mohan	OK
55	Q1730-20DUP	OU4-CF-15-040325D	DUP	04/10/25 14:58		mohan	OK
56	Q1730-20MS	OU4-CF-15-040325M	MS	04/10/25 15:03		mohan	OK
57	CCV57	CCV57	CCV	04/10/25 15:06		mohan	OK
58	CCB57	CCB57	CCB	04/10/25 15:08		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

59	Q1730-20MSD	OU4-CF-15-040325M	MSD	04/10/25 15:10		mohan	OK
60	PB167517TB	PB167517TB	MB	04/10/25 15:12		mohan	OK
61	PB167540TB	PB167540TB	MB	04/10/25 15:15		mohan	OK
62	Q1743-04L	TP-16L	SD	04/10/25 15:17		mohan	OK
63	Q1743-04A	TP-16A	PS	04/10/25 15:19		mohan	OK
64	Q1730-20L	OU4-CF-15-040325L	SD	04/10/25 15:22		mohan	OK
65	Q1730-20A	OU4-CF-15-040325A	PS	04/10/25 15:24		mohan	OK
66	CCV58	CCV58	CCV	04/10/25 15:26		mohan	OK
67	CCB58	CCB58	CCB	04/10/25 15:28		mohan	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135405

Review By	jaswal	Review On	4/15/2025 9:11:58 AM
Supervise By	mohan	Supervise On	4/15/2025 1:10:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	04/10/25 10:09		Jaswal	OK
2	S0	S0	CAL1	04/10/25 11:55		Jaswal	OK
3	S2	S2	CAL3	04/10/25 11:58		Jaswal	OK
4	S3	S3	CAL4	04/10/25 12:05		Jaswal	OK
5	S4	S4	CAL5	04/10/25 12:08		Jaswal	OK
6	S5	S5	CAL6	04/10/25 12:11		Jaswal	OK
7	S6	S6	CAL7	04/10/25 12:14		Jaswal	OK
8	S7	S7	CAL8	04/10/25 12:17		Jaswal	OK
9	S8	S8	CAL9	04/10/25 12:19		Jaswal	OK
10	ICV01	ICV01	ICV	04/10/25 13:58		Jaswal	OK
11	LLICV	LLICV	LLICV	04/10/25 14:16		Jaswal	OK
12	ICB01	ICB01	ICB	04/10/25 14:20		Jaswal	OK
13	ICSA01	ICSA01	ICSA	04/10/25 14:30		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	04/10/25 14:51		Jaswal	OK
15	CCV01	CCV01	CCV	04/10/25 14:54		Jaswal	OK
16	CCB01	CCB01	CCB	04/10/25 14:58		Jaswal	OK
17	CRI	CRI	CRDL	04/10/25 15:02		Jaswal	OK
18	PB167465BL	PB167465BL	MB	04/10/25 15:07	Not Use	Jaswal	Not Ok

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135405

Review By	jaswal	Review On	4/15/2025 9:11:58 AM
Supervise By	mohan	Supervise On	4/15/2025 1:10:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

19	PB167465BS	PB167465BS	LCS	04/10/25 15:12	Not Use	Jaswal	Not Ok
20	PB167502BL	PB167502BL	MB	04/10/25 15:17		Jaswal	OK
21	PB167502BS	PB167502BS	LCS	04/10/25 15:22		Jaswal	OK
22	PB167502TB	PB167502TB	MB	04/10/25 15:33		Jaswal	OK
23	Q1730-02DL	OU4-VSL-15-040325[	SAM	04/10/25 15:55	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
24	Q1730-04DL	OU4-VSL-16-040325[	SAM	04/10/25 15:59	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
25	Q1730-06DL	OU4-VSL-17-040325[	SAM	04/10/25 16:02	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
26	Q1730-08DL	OU4-PCS-TC-21-040	SAM	04/10/25 16:05	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
27	CCV02	CCV02	CCV	04/10/25 16:11		Jaswal	OK
28	CCB02	CCB02	CCB	04/10/25 16:14		Jaswal	OK
29	Q1730-10DL	OU4-PCS-TC-22-040	SAM	04/10/25 16:19	int_STD 89y(1) Fail	Jaswal	Dilution
30	Q1730-12DL	OU4-PCS-TC-23-040	SAM	04/10/25 16:23	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
31	Q1730-14DL	OU4-PCS-TC-24-040	SAM	04/10/25 16:26		Jaswal	OK
32	Q1730-16DL	OU4-PCS-TC-25-040	SAM	04/10/25 16:29	int_STD 89y (1) & (2) Fail	Jaswal	Dilution
33	Q1730-18DL	OU4-PCS-TC-26-040	SAM	04/10/25 16:32	int_STD 89y(1) Fail	Jaswal	Dilution
34	Q1730-20DL	OU4-CF-15-040325D	SAM	04/10/25 16:36	int_STD 89y(1) Fail	Jaswal	Dilution
35	Q1730-20DUPDL	OU4-CF-15-040325D	DUP	04/10/25 16:39	int_STD 89y(1) Fail	Jaswal	Dilution
36	Q1730-20LDL	OU4-CF-15-040325L[	SD	04/10/25 16:42	int_STD 89y(1) Fail	Jaswal	Dilution
37	CCV03	CCV03	CCV	04/10/25 16:46		Jaswal	OK
38	CCB03	CCB03	CCB	04/10/25 16:49		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135405

Review By	jaswal	Review On	4/15/2025 9:11:58 AM
Supervise By	mohan	Supervise On	4/15/2025 1:10:06 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

39	Q1730-20MSDL	OU4-CF-15-040325M	MS	04/10/25 16:53	int_STD 89y(1) Fail	Jaswal	Dilution
40	Q1730-20MSDDL	OU4-CF-15-040325M	MSD	04/10/25 16:56	int_STD 89y(1) Fail	Jaswal	Dilution
41	Q1730-20ADL	OU4-CF-15-040325A	PS	04/10/25 16:59	int_STD 89y(2) Fail	Jaswal	Dilution
42	Q1730-02DL2	OU4-VSL-15-040325	SAM	04/10/25 17:02	10X for int _STD 89Y(1&2)	Jaswal	Confirms
43	Q1730-04DL2	OU4-VSL-16-040325	SAM	04/10/25 17:05	10X for int_STD 89Y(1&2)	Jaswal	Confirms
44	Q1730-06DL2	OU4-VSL-17-040325	SAM	04/10/25 17:08	10X for _STD 89Y(1&2) still fail	Jaswal	Dilution
45	Q1730-12DL2	OU4-PCS-TC-23-040	SAM	04/10/25 17:11	10X for int_STD 89Y(1&2)	Jaswal	Confirms
46	Q1730-16DL2	OU4-PCS-TC-25-040	SAM	04/10/25 17:15	10X for int_STD 89Y(1&2)	Jaswal	Confirms
47	CCV04	CCV04	CCV	04/10/25 17:19		Jaswal	OK
48	CCB04	CCB04	CCB	04/10/25 17:23		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135426

Review By	jaswal	Review On	4/15/2025 12:49:23 PM
Supervise By	JANVI	Supervise On	4/16/2025 12:54:43 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	04/14/25 14:35		Jaswal	OK
2	S0	S0	CAL1	04/14/25 15:05		Jaswal	OK
3	S2	S2	CAL3	04/14/25 15:12		Jaswal	OK
4	S3	S3	CAL4	04/14/25 15:15		Jaswal	OK
5	S4	S4	CAL5	04/14/25 15:18		Jaswal	OK
6	S5	S5	CAL6	04/14/25 15:21		Jaswal	OK
7	S6	S6	CAL7	04/14/25 15:24		Jaswal	OK
8	S7	S7	CAL8	04/14/25 15:27		Jaswal	OK
9	S8	S8	CAL9	04/14/25 15:30		Jaswal	OK
10	ICV01	ICV01	ICV	04/14/25 15:56		Jaswal	OK
11	LLICV	LLICV	LLICV	04/14/25 16:09		Jaswal	OK
12	ICB01	ICB01	ICB	04/14/25 16:12		Jaswal	OK
13	ICSA01	ICSA01	ICSA	04/14/25 16:23		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	04/14/25 16:38		Jaswal	OK
15	CCV01	CCV01	CCV	04/14/25 16:41		Jaswal	OK
16	CCB01	CCB01	CCB	04/14/25 16:44		Jaswal	OK
17	CRI	CRI	CRDL	04/14/25 16:47		Jaswal	OK
18	Q1730-06DL3	OU4-VSL-17-040325D	SAM	04/14/25 16:51	25X For INT_STD 89Y(1&2)	Jaswal	Confirms

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135426

Review By	jaswal	Review On	4/15/2025 12:49:23 PM
Supervise By	JANVI	Supervise On	4/16/2025 12:54:43 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

19	Q1730-08DL2	OU4-PCS-TC-21-040	SAM	04/14/25 16:55	10X For INT_STD 89Y(1&2)	Jaswal	Confirms
20	Q1730-10DL2	OU4-PCS-TC-22-040	SAM	04/14/25 16:58	10X For INT_STD 89Y(1)	Jaswal	Confirms
21	Q1730-18DL2	OU4-PCS-TC-26-040	SAM	04/14/25 17:01	10X For INT_STD 89Y(1)	Jaswal	Confirms
22	Q1730-20DL2	OU4-CF-15-040325D	SAM	04/14/25 17:04	10X For INT_STD 89Y(1)	Jaswal	Confirms
23	Q1730-20DUPDL2	OU4-CF-15-040325D	DUP	04/14/25 17:08	10X For INT_STD 89Y(1)	Jaswal	Confirms
24	Q1730-20LDL2	OU4-CF-15-040325L	SD	04/14/25 17:11	50X For INT_STD 89Y(1)	Jaswal	Confirms
25	CCV02	CCV02	CCV	04/14/25 17:16		Jaswal	OK
26	CCB02	CCB02	CCB	04/14/25 17:20		Jaswal	OK
27	Q1730-20MSDL2	OU4-CF-15-040325M	MS	04/14/25 17:24	10X For INT_STD 89Y(1)	Jaswal	Confirms
28	Q1730-20MSDDL2	OU4-CF-15-040325M	MSD	04/14/25 17:27	10X For INT_STD 89Y(1)	Jaswal	Confirms
29	Q1730-20ADL2	OU4-CF-15-040325A	PS	04/14/25 17:30	10X For INT_STD 89Y(2)	Jaswal	Confirms
30	CCV03	CCV03	CCV	04/14/25 17:35		Jaswal	OK
31	CCB03	CCB03	CCB	04/14/25 17:39		Jaswal	OK

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167493

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-1

TCLP Filter ID : 115525

Start Prep Date : 04/07/2025 **Time :** 14:00

End Prep Date : 04/08/2025 **Time :** 08:10

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : JZ

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	N/A	WP110806
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
N/A	N/A	N/A
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. q1730-20 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 10:30	JP / TCLP Room	S123. / Inst Room
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167493

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
PB167493TB	LEB493	11	N/A	2000	N/A	N/A	N/A	4.23	1.5	T-1
Q1730-02	OU4-VSL-15-040325	01	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-04	OU4-VSL-16-040325	02	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1730-06	OU4-VSL-17-040325	03	100.04	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-08	OU4-PCS-TC-21-040325	04	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1730-10	OU4-PCS-TC-22-040325	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1730-12	OU4-PCS-TC-23-040325	06	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1730-14	OU4-PCS-TC-24-040325	07	100.01	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1730-16	OU4-PCS-TC-25-040325	08	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1730-18	OU4-PCS-TC-26-040325	09	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1730-20	OU4-CF-15-040325	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167493TB	LEB493	N/A	N/A	N/A	N/A	N/A	N/A
Q1730-02	OU4-VSL-15-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-04	OU4-VSL-16-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-06	OU4-VSL-17-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-08	OU4-PCS-TC-21-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-10	OU4-PCS-TC-22-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-12	OU4-PCS-TC-23-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-14	OU4-PCS-TC-24-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-16	OU4-PCS-TC-25-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-18	OU4-PCS-TC-26-040325	N/A	N/A	N/A	N/A	100	N/A
Q1730-20	OU4-CF-15-040325	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB167493

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
PB167493TB	LEB493	N/A	N/A	N/A	N/A	#1	4.23
Q1730-02	OU4-VSL-15-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-04	OU4-VSL-16-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-06	OU4-VSL-17-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-08	OU4-PCS-TC-21-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-10	OU4-PCS-TC-22-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-12	OU4-PCS-TC-23-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-14	OU4-PCS-TC-24-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-16	OU4-PCS-TC-25-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-18	OU4-PCS-TC-26-040325	N/A	N/A	N/A	N/A	#1	4.23
Q1730-20	OU4-CF-15-040325	N/A	N/A	N/A	N/A	#1	4.23

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Prep Standard - Chemical Standard Summary

Order ID : Q1730

Test : SPLP Mercury,SPLP MetalGroup3

Prepbatch ID : PB167502,PB167540,

Sequence ID/Qc Batch ID: LB135365,LB135405,LB135426,

Standard ID :
MP84563,MP84564,MP84565,MP84566,MP84980,MP84981,MP84982,MP84983,MP84984,MP84985,MP84986,MP84987,MP84988,MP84989,MP84992,MP84993,MP84996,MP84997,MP84998,MP84999,MP85065,MP85066,MP85067,MP85068,MP85156,MP85175,MP85176,MP85177,MP85178,MP85179,MP85180,MP85181,MP85182,MP85183,MP85184,MP85185,MP85186,MP85187,MP85189,MP85193,

Chemical ID :
M4371,M4465,M4888,M4916,M5062,M5305,M5472,M5519,M5520,M5532,M5545,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M5811,M5815,M5817,M5873,M5874,M5882,M5884,M5942,M5961,M5962,M5977,M5981,M5983,M6019,M6020,M6021,M6023,M6025,M6026,M6028,M6030,M6032,M6041,M6055,M6058,M6079,M6086,M6126,M6127,M6128,M6137,M6144,M6145,M6146,M6150,M6151,M6153,M6158,M6159,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP84563	02/18/2025	06/03/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP84564	02/18/2025	08/18/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP84565	02/18/2025	08/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP84566	02/18/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84980	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.00000ml of M6137 + 1.00000ml of M6153 + 1.90000ml of M6159 + 10.00000ml of M5942 + 10.00000ml of M5977 + 10.00000ml of M6158 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5519 + 4.90000ml of M5811 + 5.00000ml of M6151 + 50.00000ml of M5305 + 829.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M6086 + 9.90000ml of M6127 + 9.90000ml of M6144 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84981	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6158 = Final Quantity: 5000.000 ml

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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	MP84982	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 1.00000ml of M6159 + 2.50000ml of M5520 + 2.50000ml of M5811 + 5.00000ml of M6086 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP84983	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 48.50000ml of W3112 + 50.00000ml of MP84980 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP84984	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 73.50000ml of W3112 + 25.00000ml of MP84980 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP84985	03/25/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 86.00000ml of W3112 + 12.50000ml of MP84980 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP84986	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84983 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP84987	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.00500ml of M6153 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.05000ml of M6128 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.10000ml of M6159 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5942 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 0.50000ml of M6137 + 1.25000ml of M5815 + 1.25000ml of M5817 + 1.25000ml of M6151 + 2.50000ml of M5520 + 2.50000ml of M6086 + 2.50000ml of M6127 + 2.50000ml of M6144 + 2.50000ml of M6158 + 230.04500ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP84988	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 98.00000ml of W3112 + 0.50000ml of MP84987 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP84989	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84988 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84992	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.20000ml of M6026 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 0.50000ml of M6137 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M6153 + 10.00000ml of M6158 + 12.45000ml of M5520 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M6086 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5305 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M6159 + 5.00000ml of M6151 + 5.50000ml of M5942 + 5.50000ml of M5977 + 823.35000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84993	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84981 = Final Quantity: 100.000 ml

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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	MP84996	03/25/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.00500ml of M5983 + 0.00500ml of M6019 + 0.00500ml of M6020 + 0.00500ml of M6058 + 10.00000ml of M5873 + 10.00000ml of M5874 + 79.98000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84997	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84981 = Final Quantity: 100.000 ml

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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	MP84998	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84997 + 96.00000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84999	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 5.00000ml of M6158 + 75.00000ml of M5739 + 170.00000ml of MP84981 = Final Quantity: 250.000 ml

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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	MP85065	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 5.00000ml of M5472 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 5.00000ml of M6079 + 5.00000ml of M6146 + 35.00000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3881	M&B SPIKE-2	MP85066	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 10.00000ml of M4888 + 10.00000ml of M5977 + 12.50000ml of M5520 + 12.50000ml of M5811 + 12.50000ml of M6032 + 2.50000ml of M5799 + 2.50000ml of M6137 + 5.00000ml of M6159 + 32.50000ml of MP84981 = Final Quantity: 100.000 ml

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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	MP85067	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.62500ml of M6026 + 12.50000ml of M5751 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP84981 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3900	M&B SPIKE-4	MP85068	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 6.25000ml of M6086 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP84981 = Final Quantity: 25.000 ml

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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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP85175	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 1.00000ml of M6158 + 2.50000ml of M5062 + 96.50000ml of W3112 = 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
1340	Hg 0.00 PPB STD	MP85176	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

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
1341	Hg 0.2 PPB STD	MP85177	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85175 = 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
1342	Hg 2.5 PPB STD	MP85178	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 245.00000ml of W3112 + 2.50000ml of MP85175 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP85179	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 242.50000ml of W3112 + 5.00000ml of MP85175 = 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
1344	Hg 7.5 PPB STD	MP85180	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 240.00000ml of W3112 + 7.50000ml of MP85175 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP85181	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 237.50000ml of W3112 + 10.00000ml of MP85175 = 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
1346	Hg ICV SOLUTION	MP85182	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6158 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP85183	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

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
1358	CCV (Hg 5.0 PPB SOLUTION)	MP85184	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6158 + 10.00000ml of MP85175 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP85185	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6158 = 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
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP85186	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP85175 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP85187	04/10/2025	04/11/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 04/15/2025

FROM 2.50000ml of M6158 + 240.50000ml of W3112 + 7.00000ml of MP85175 = 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
68	STANNOUS CHLORIDE SOLUTION	MP85189	04/10/2025	04/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 04/15/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3959	ICV(6020,200.8)	MP85193	04/07/2025	04/14/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 04/16/2025

FROM 0.05000ml of M5983 + 0.05000ml of M6019 + 0.05000ml of M6020 + 0.05000ml of M6058 + 0.45000ml of M5545 + 0.45000ml of M5977 + 2.00000ml of M6150 + 96.90000ml of MP84981 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / jaswal	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	09/27/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	04/30/2025	01/02/2025 / jaswal	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Titanium (Ti) 1000PPM	050223	05/02/2026	05/08/2023 / jaswal	05/08/2023 / jaswal	M5545

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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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	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSR1-1 / Strontium, 125 ml, 1000 PPM	U2-SR730227	03/03/2028	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGU1-1 / Uranium 1000 ug/ml	U2-U735194	04/03/2028	01/15/2025 / Jaswal	08/05/2024 / Jaswal	M6020

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	110923	11/09/2026	12/05/2024 / janvi	08/05/2024 / Jaswal	M6026

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	01/15/2025 / Jaswal	09/30/2024 / Jaswal	M6079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Calcium, 500 ml, 10000 PPM	082324	08/23/2027	03/06/2025 / JANVI	10/14/2024 / jaswal	M6086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Absolute Standards, Inc.
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Certified Reference Material CRM

M6032

R! 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**			**Lot #**	
Lot Number:	**010924**		**Solvent:**	24002546	Nitric Acid
Description:	**Barium (Ba)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

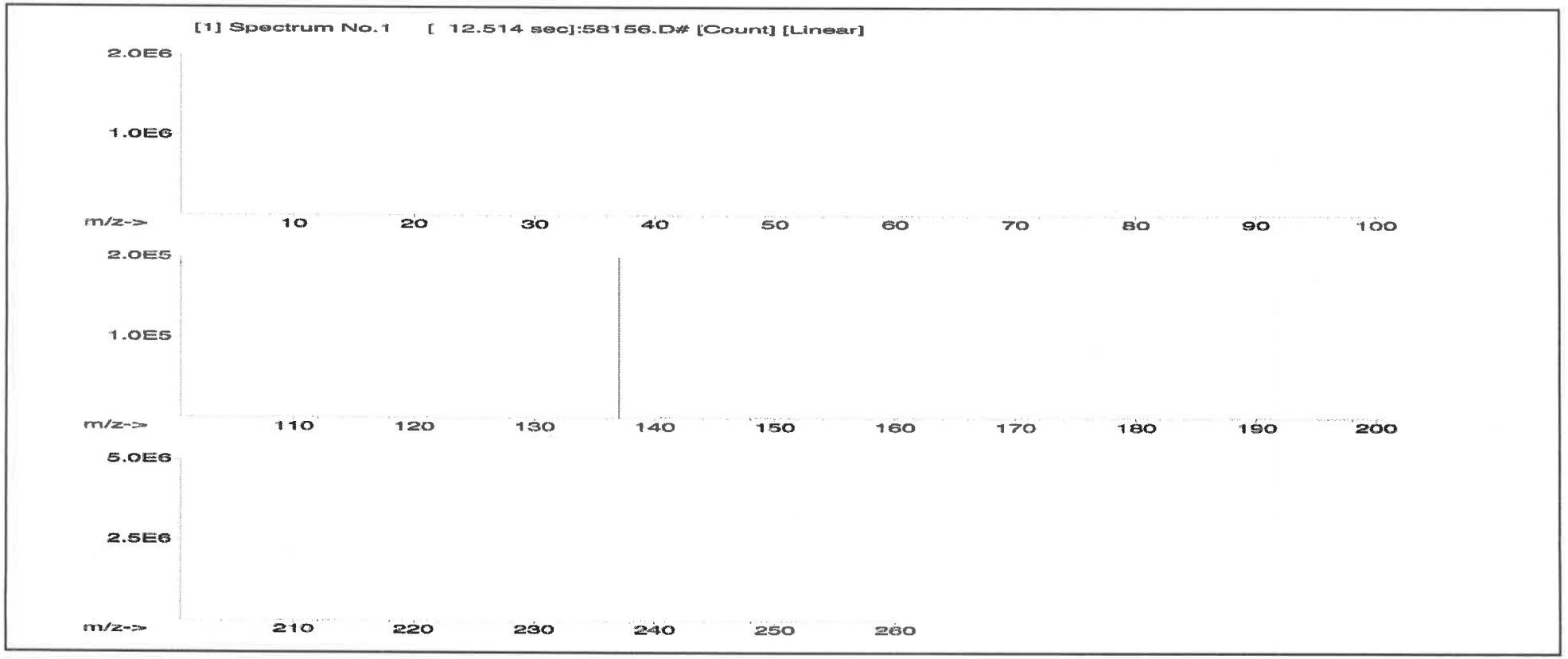
Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

688 of 825

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



Q1730-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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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 082324
Description: Calcium (Ca)

Expiration Date: 082327
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.1 0.15 Flask Uncertainty

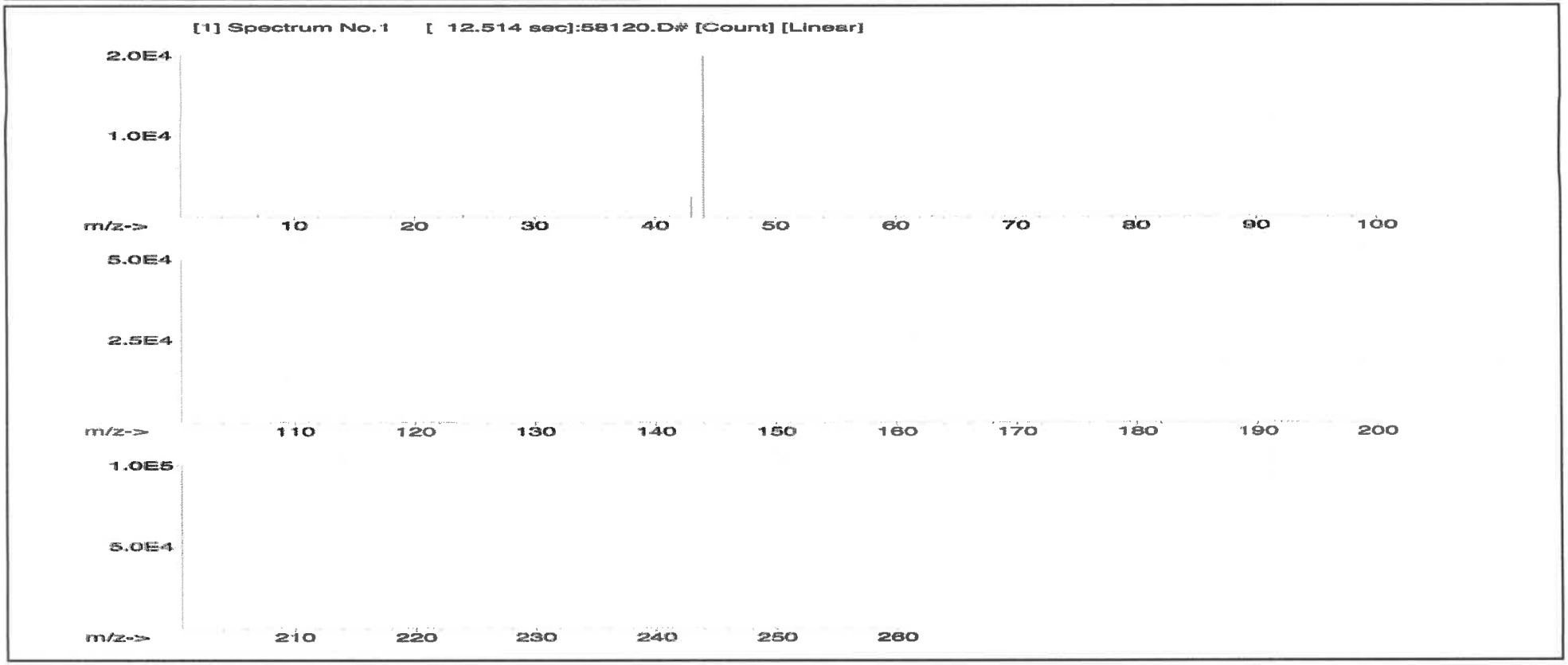
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 082324

Pedro Rentas
Reviewed By: Pedro L. Rentas 082324

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2656	**10001.2**	**20.0**	471-34-1	5 mg/m3	ori-rat >2000mg/kg	3109a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M6028

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R 8/15/24

CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

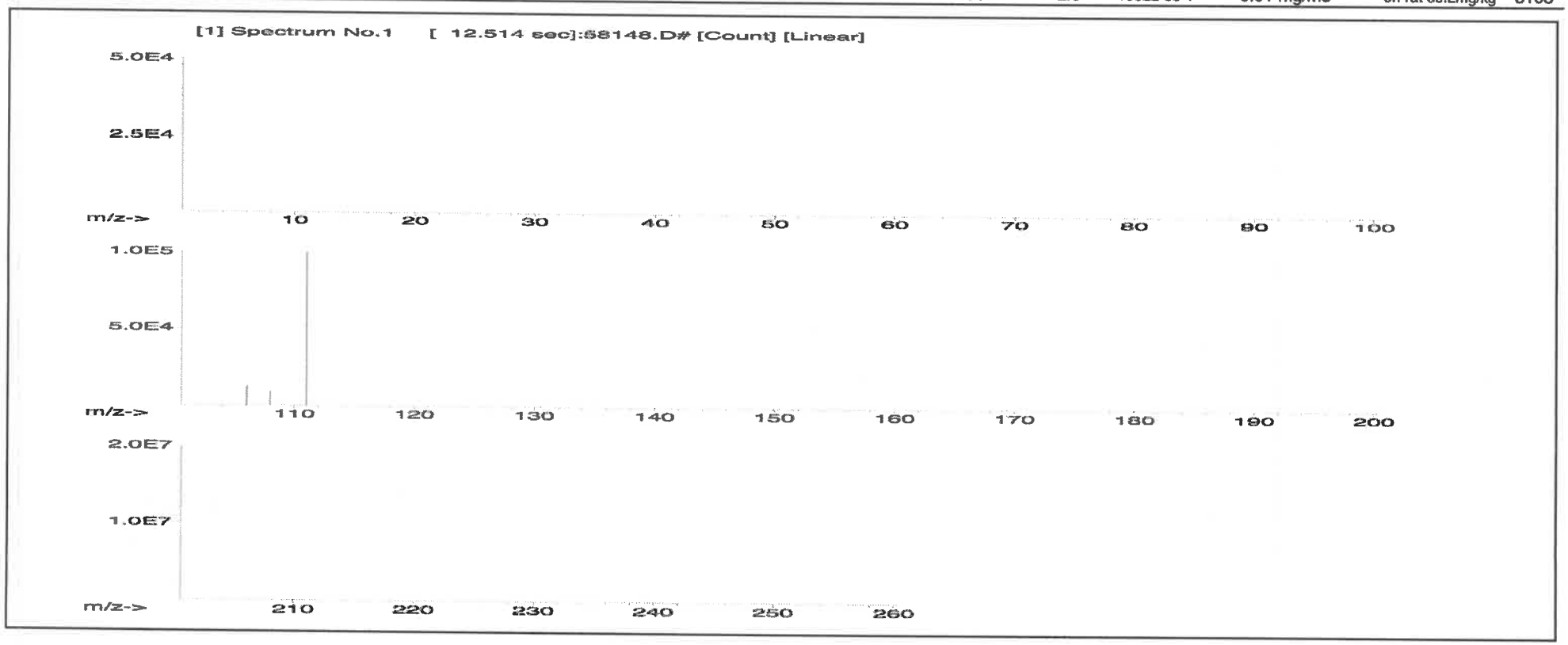
Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 070124
Pedro Rentas
Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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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	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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R : 01/03/24. M5810, M5811

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CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**	
Lot Number:	**051523**	**Solvent:**	21110221	Nitric Acid
Description:	**Iron (Fe)**	5.0%	250.0 (mL)	Nitric Acid
Expiration Date:	051526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	5000.1	0.12	Flask Uncertainty	

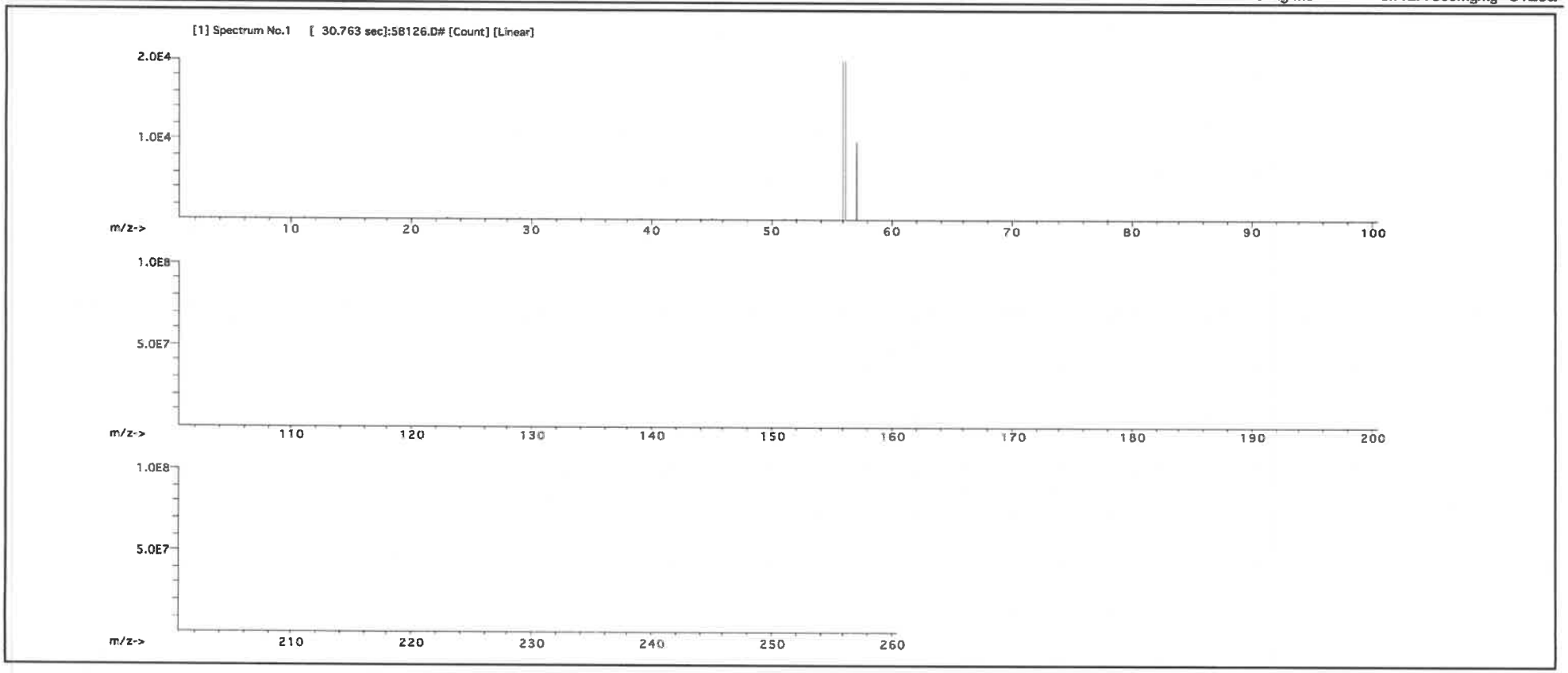
Giovanni Esposito

Formulated By:	Giovanni Esposito	051523

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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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/5/24 M6025

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

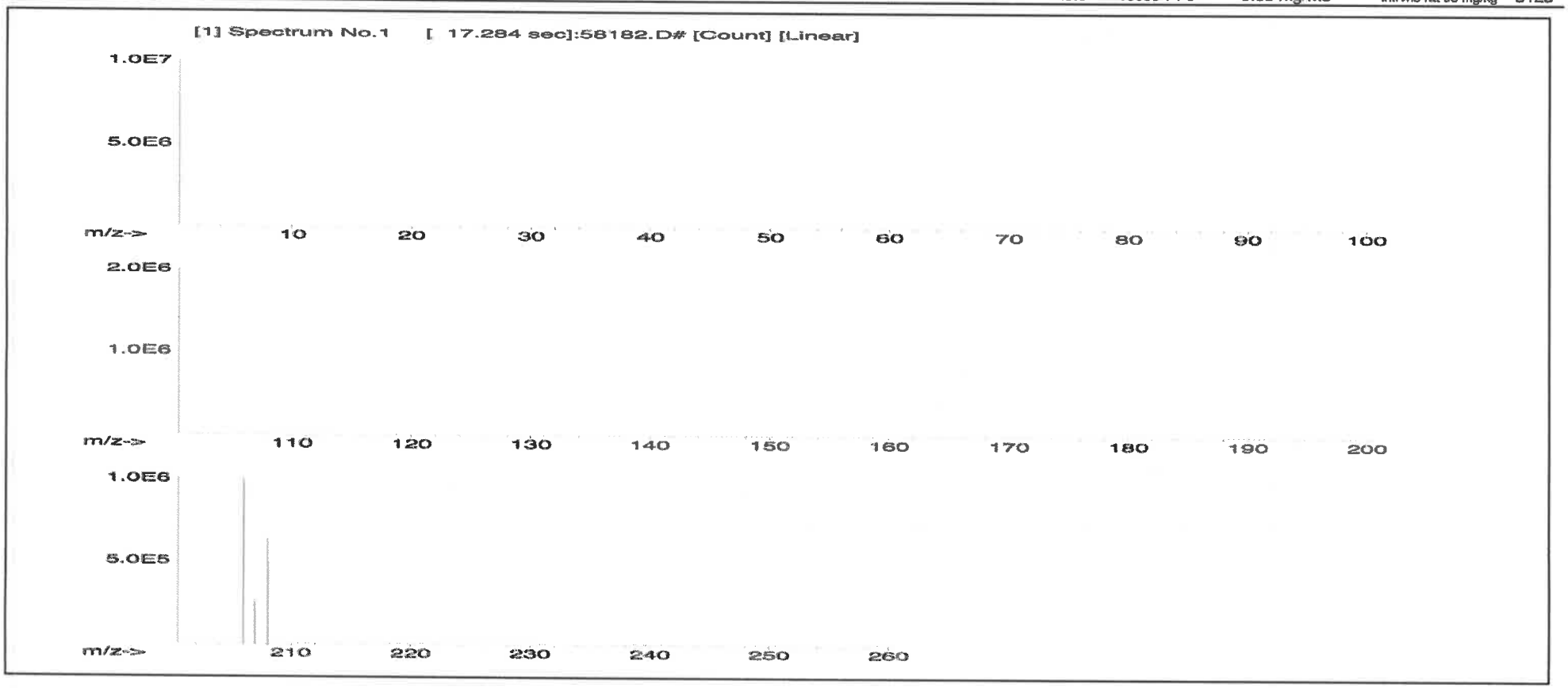
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6026

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

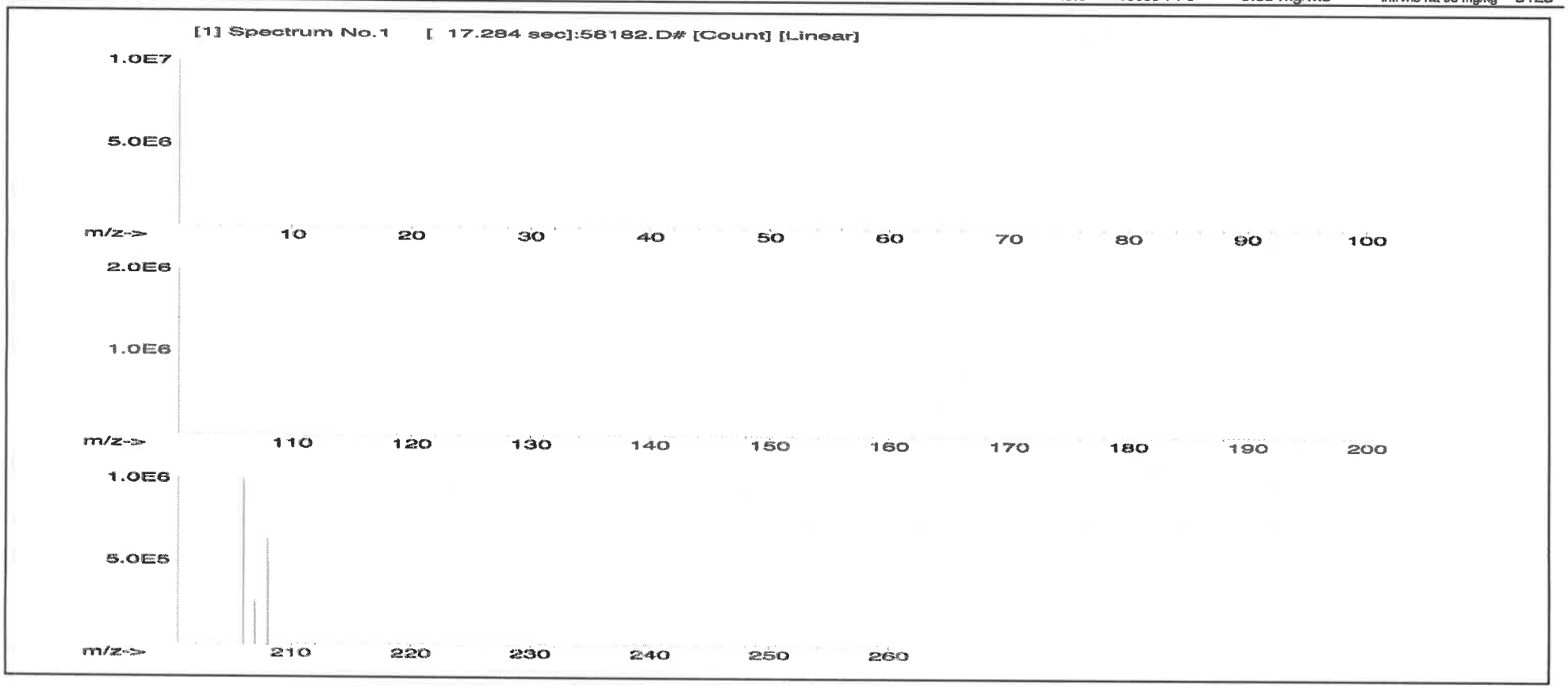
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	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



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	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

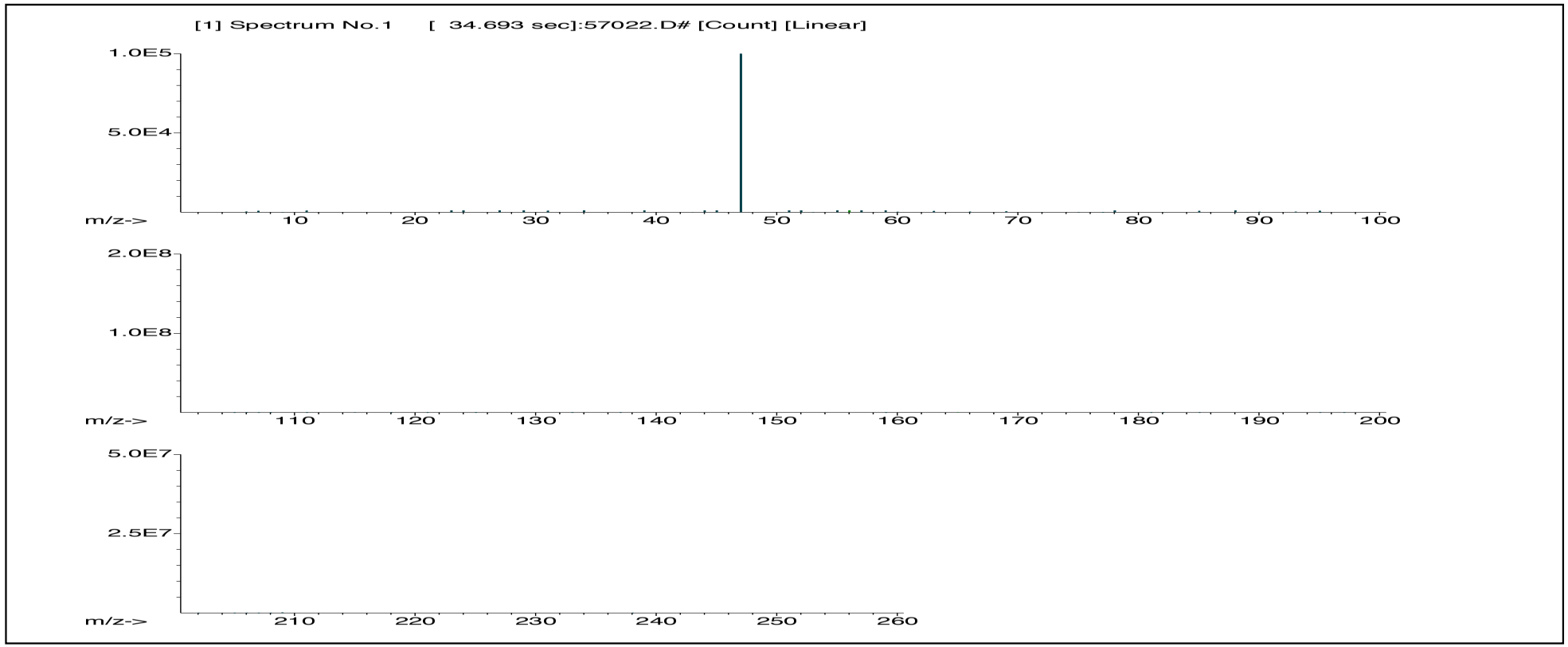
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070724			
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 070721
Reviewed By:	Pedro L. Rentas 070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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).

M4913-16
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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)

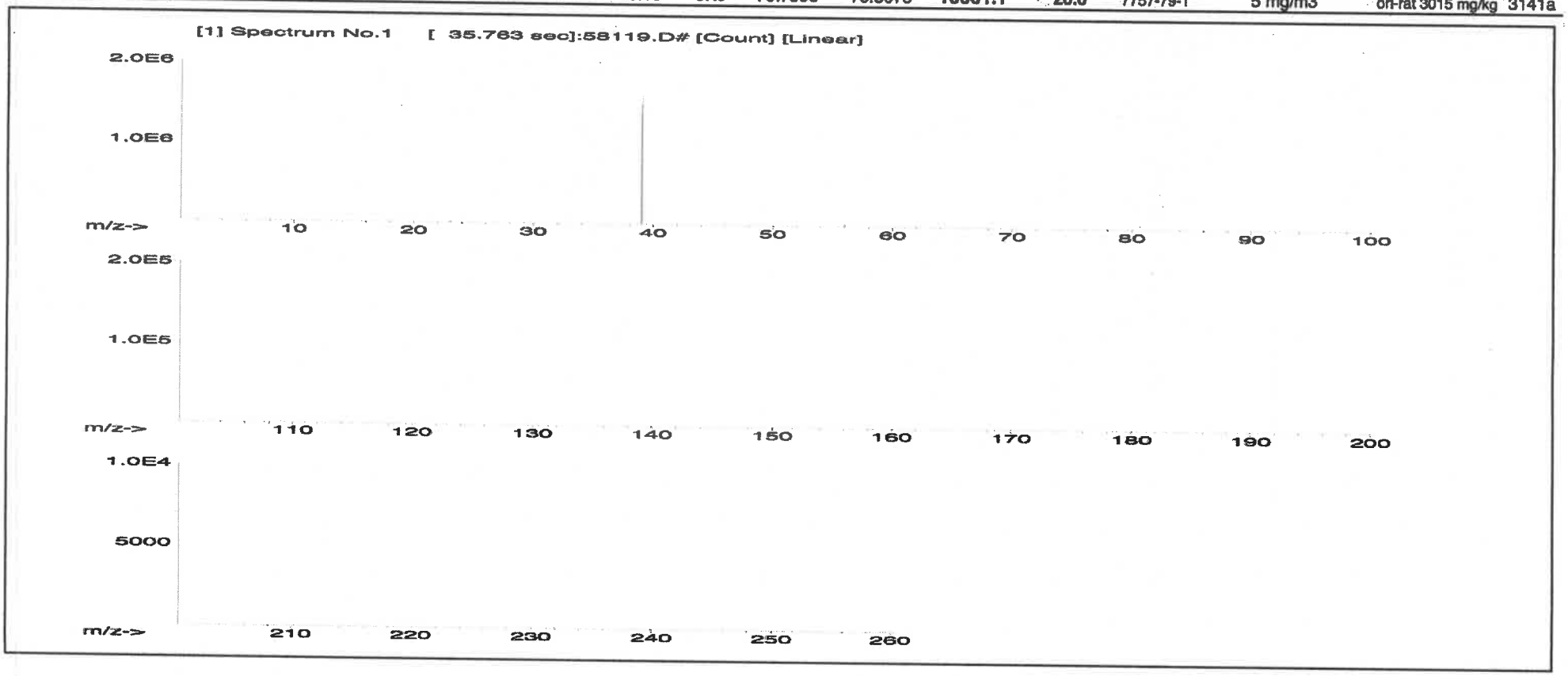
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

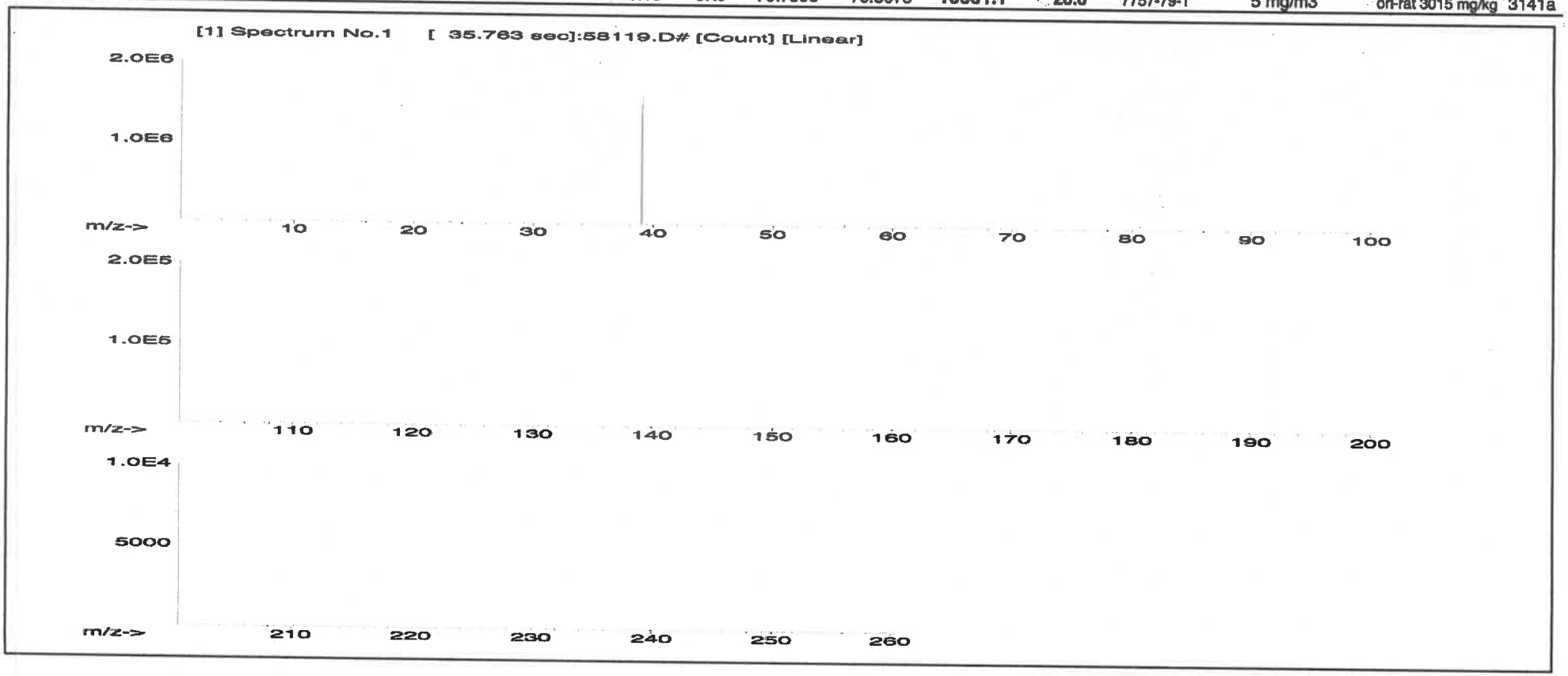
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

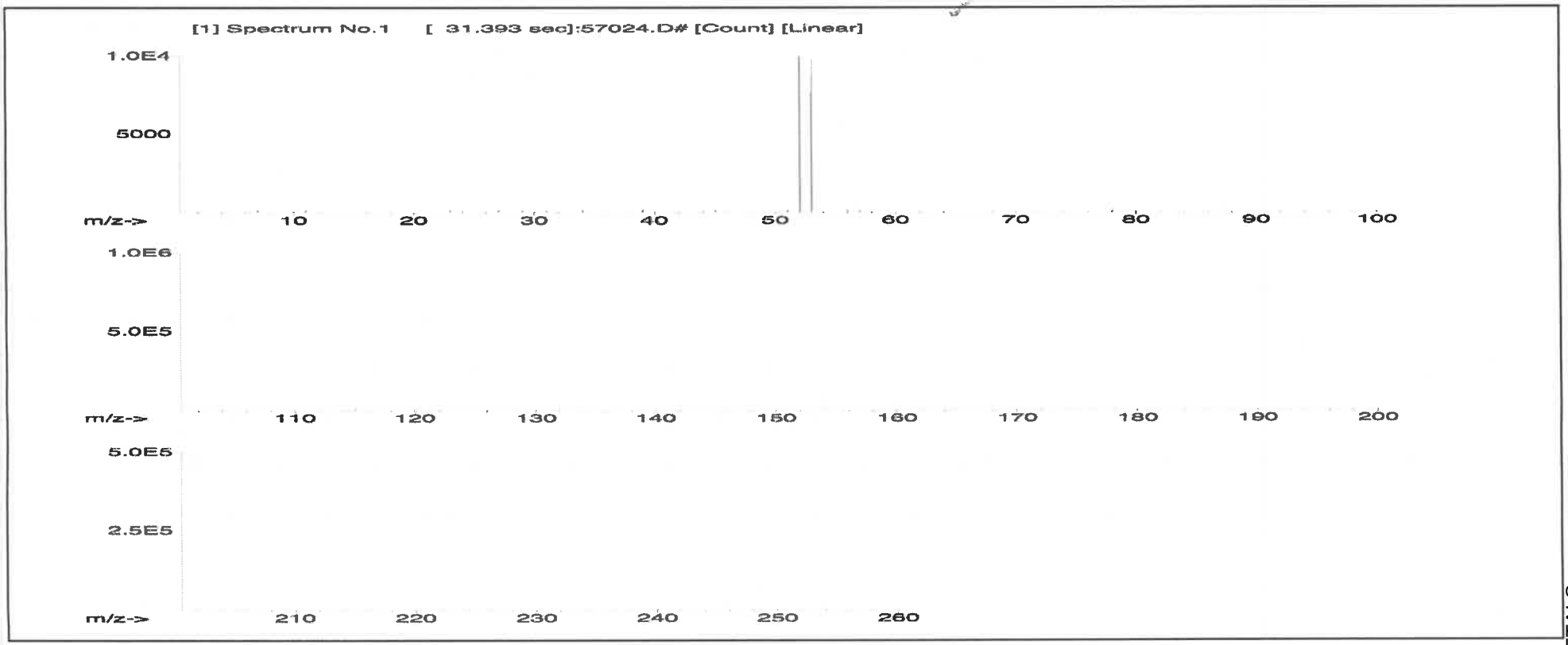
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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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	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/25/23 M5751

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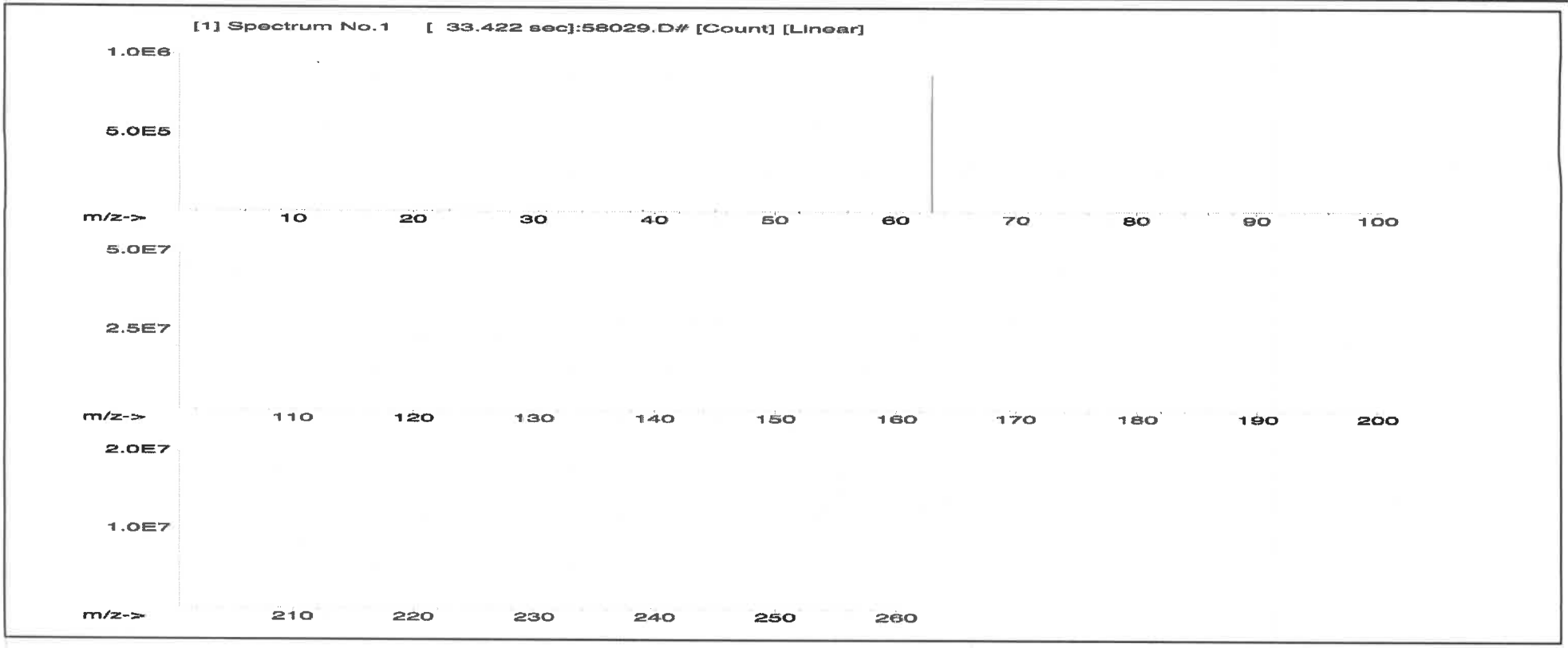
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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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.
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R: 02/09/24 M5798

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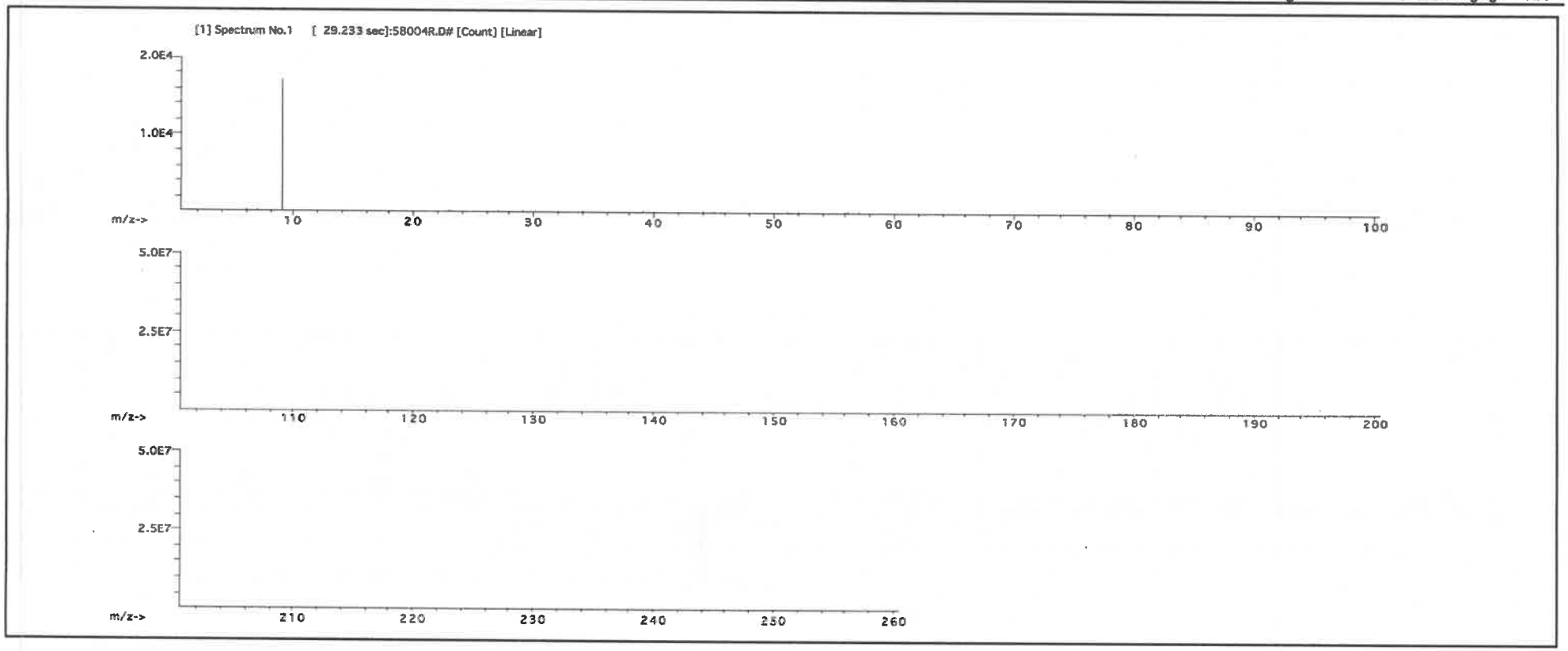
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R? 02/09/24 IV15799

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

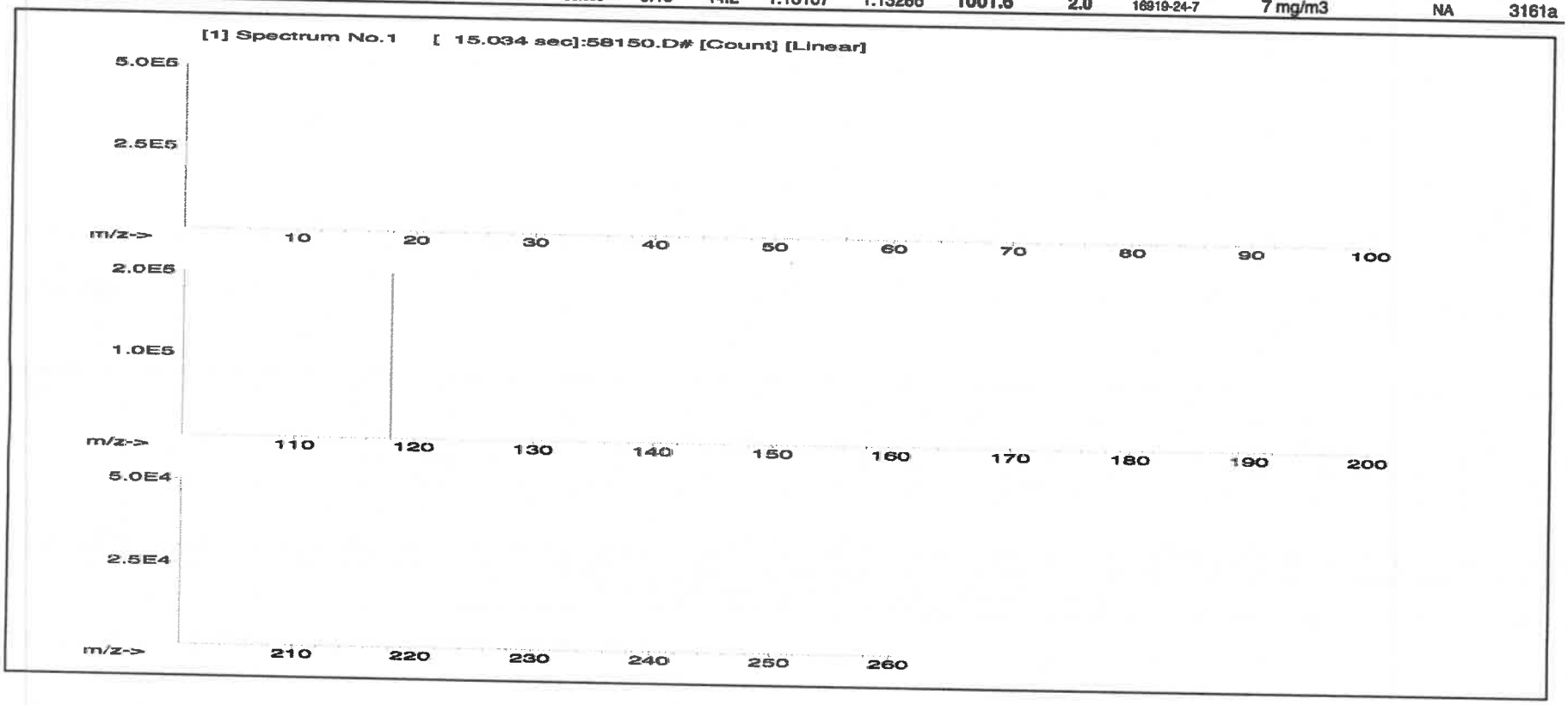
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 IM5800 BH

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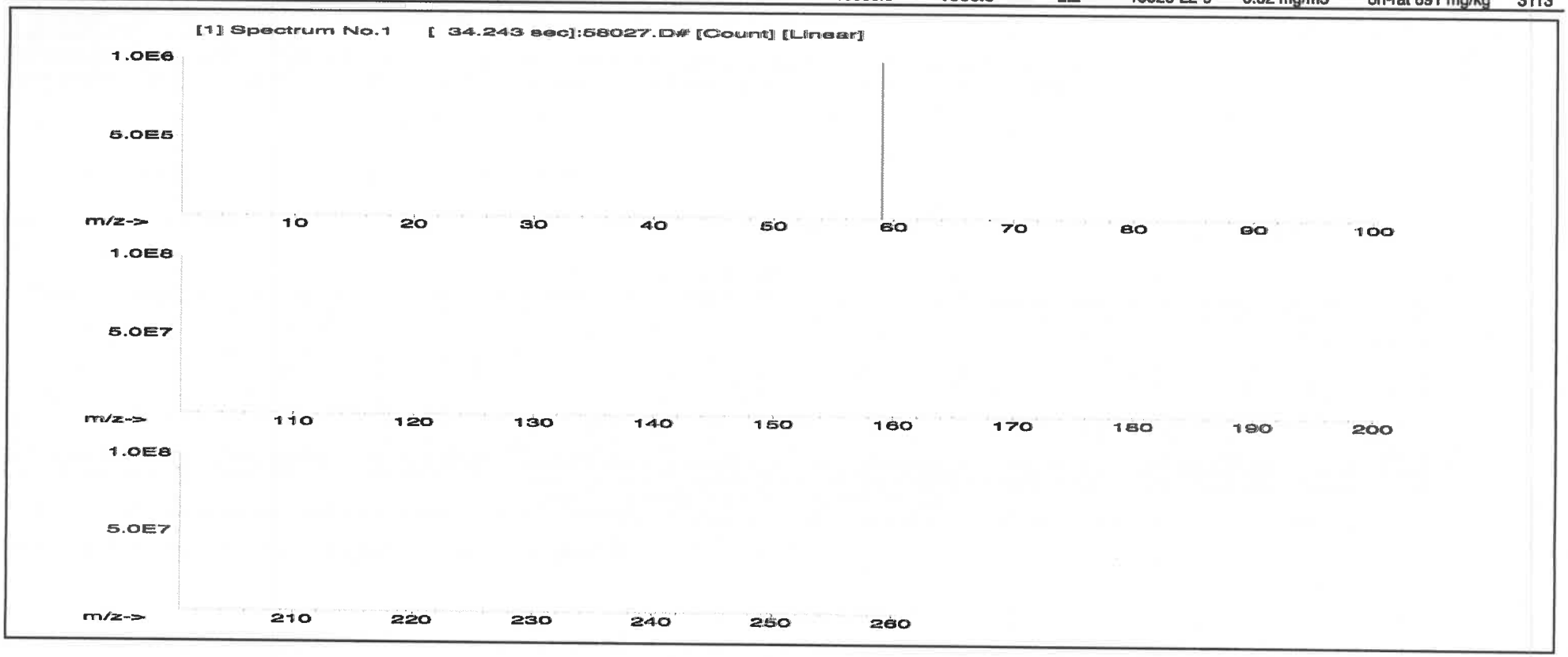
CERTIFIED WEIGHT REPORT:

		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:

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R: 02/09/24 M5801 BH

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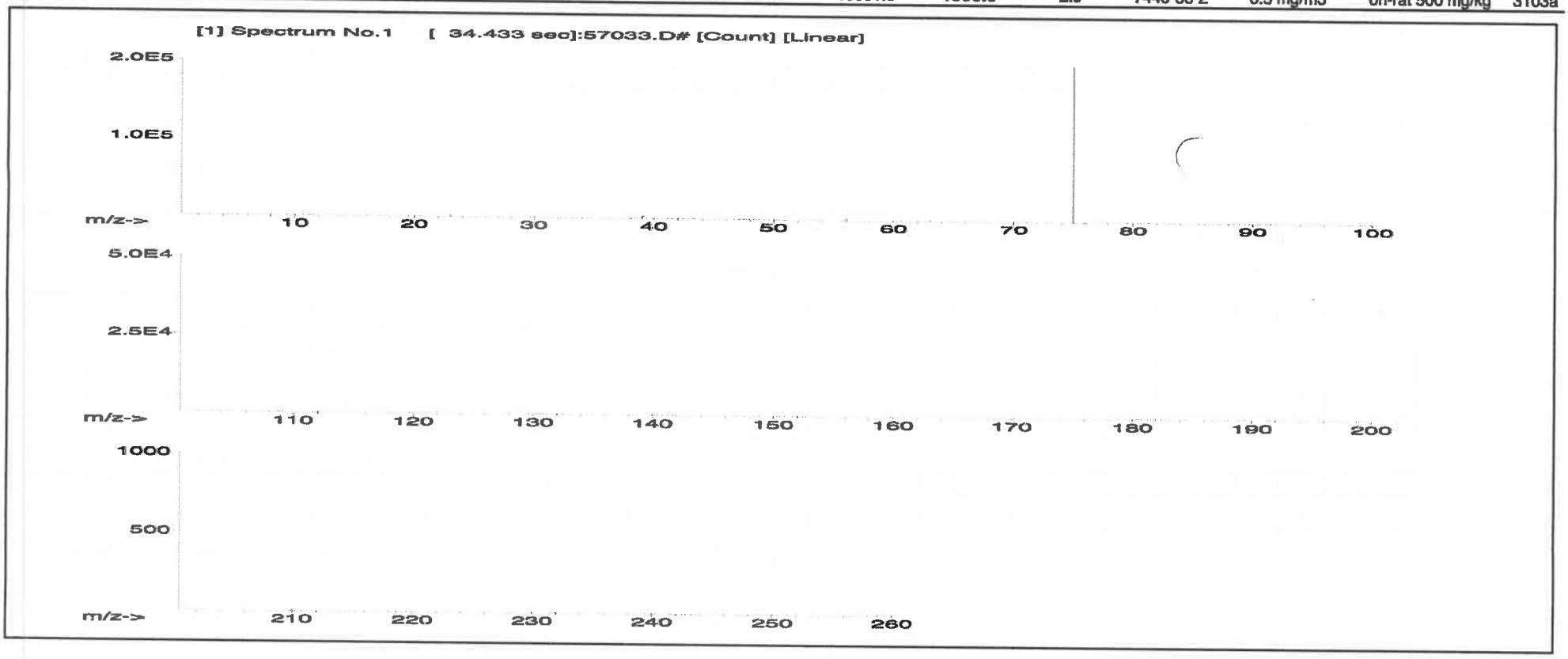
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R1 02/09/24. M58165

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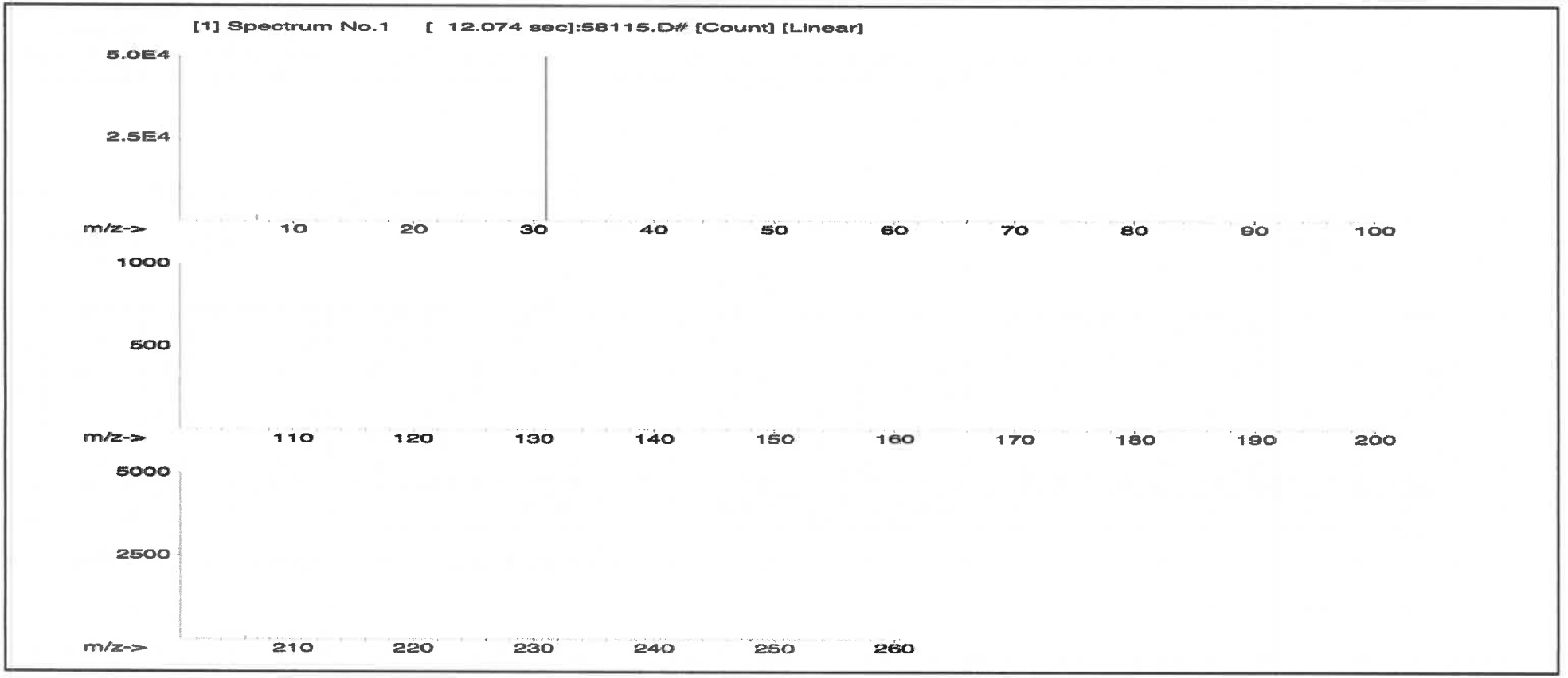
CERTIFIED WEIGHT REPORT:

Part Number:	**57115**		**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**				
Description:	**Phosphorous (P)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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www.absolutestandards.com

Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

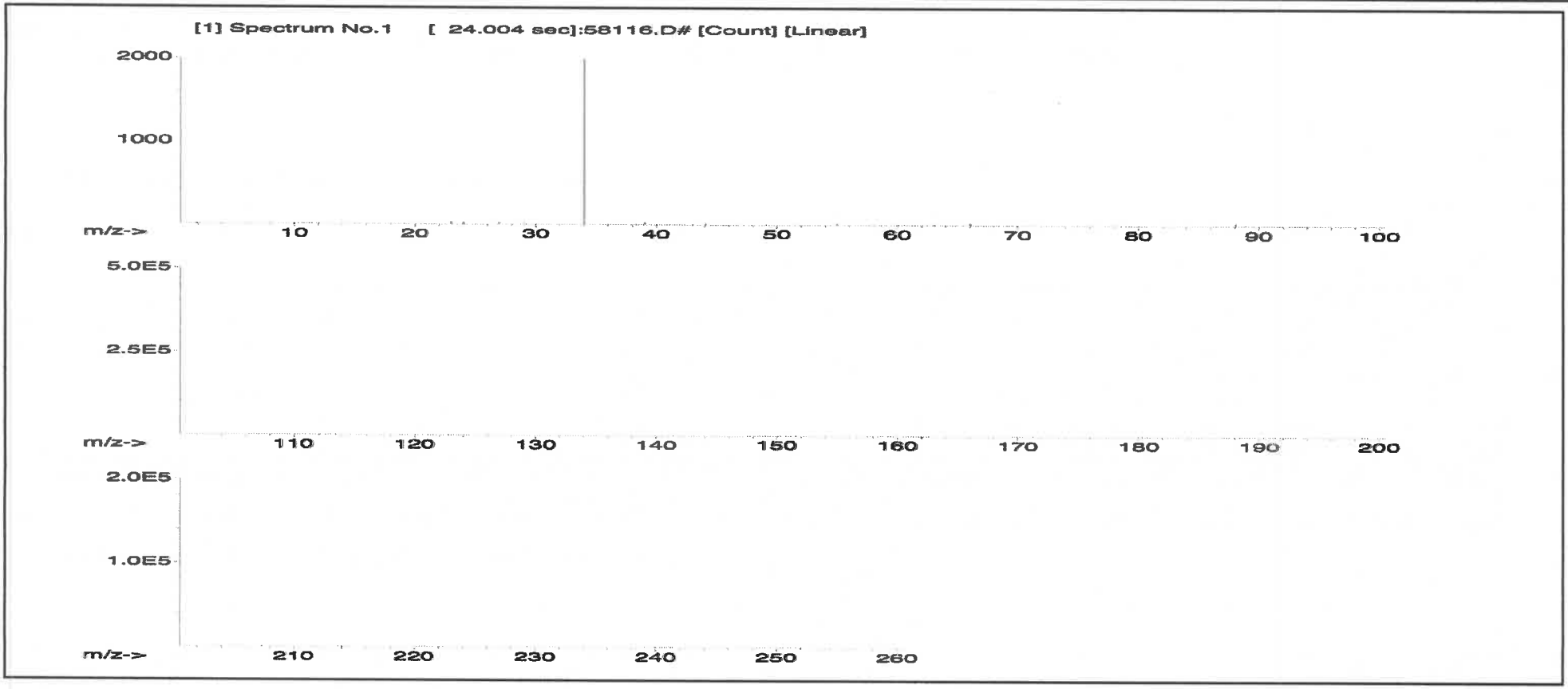
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

INORGANIC VENTURES™
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Certificate of Analysis

R: 02/22/24 M5942

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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

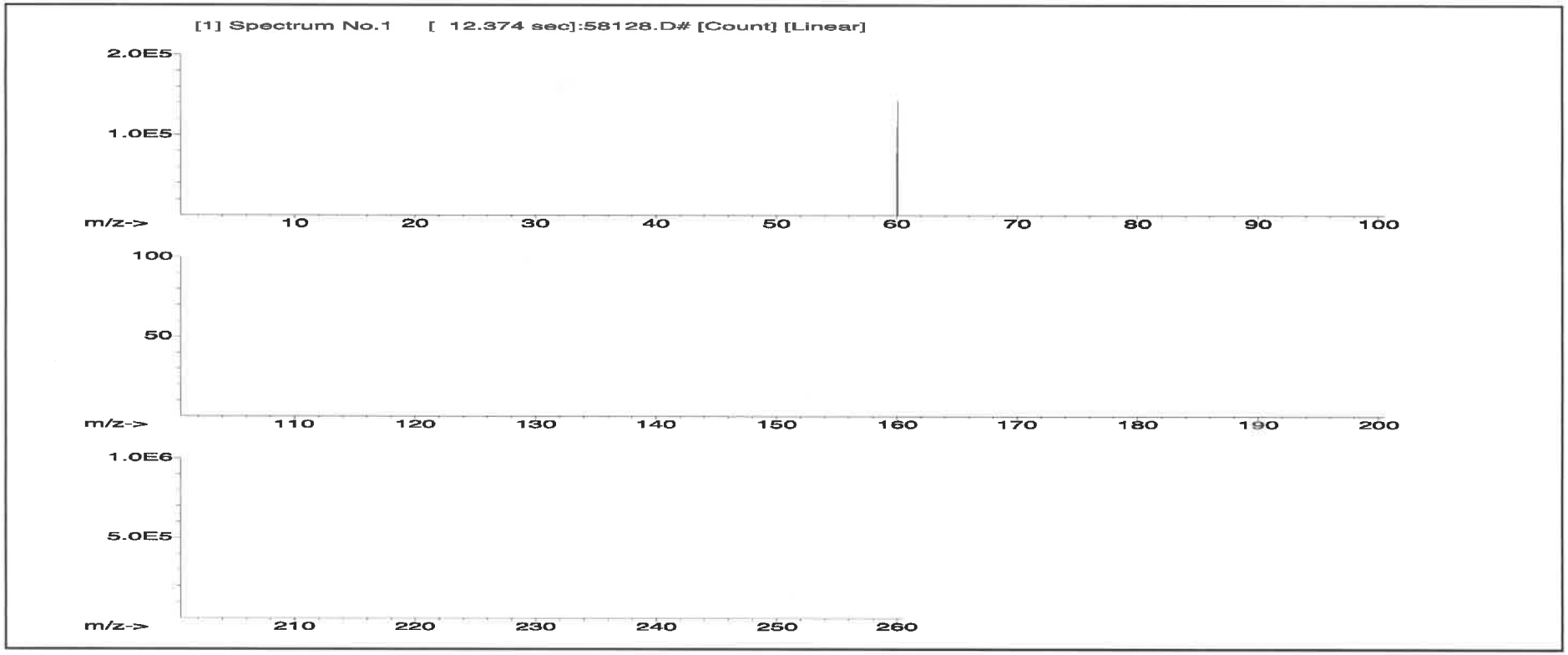
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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
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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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M5962 R! 06/14/24.

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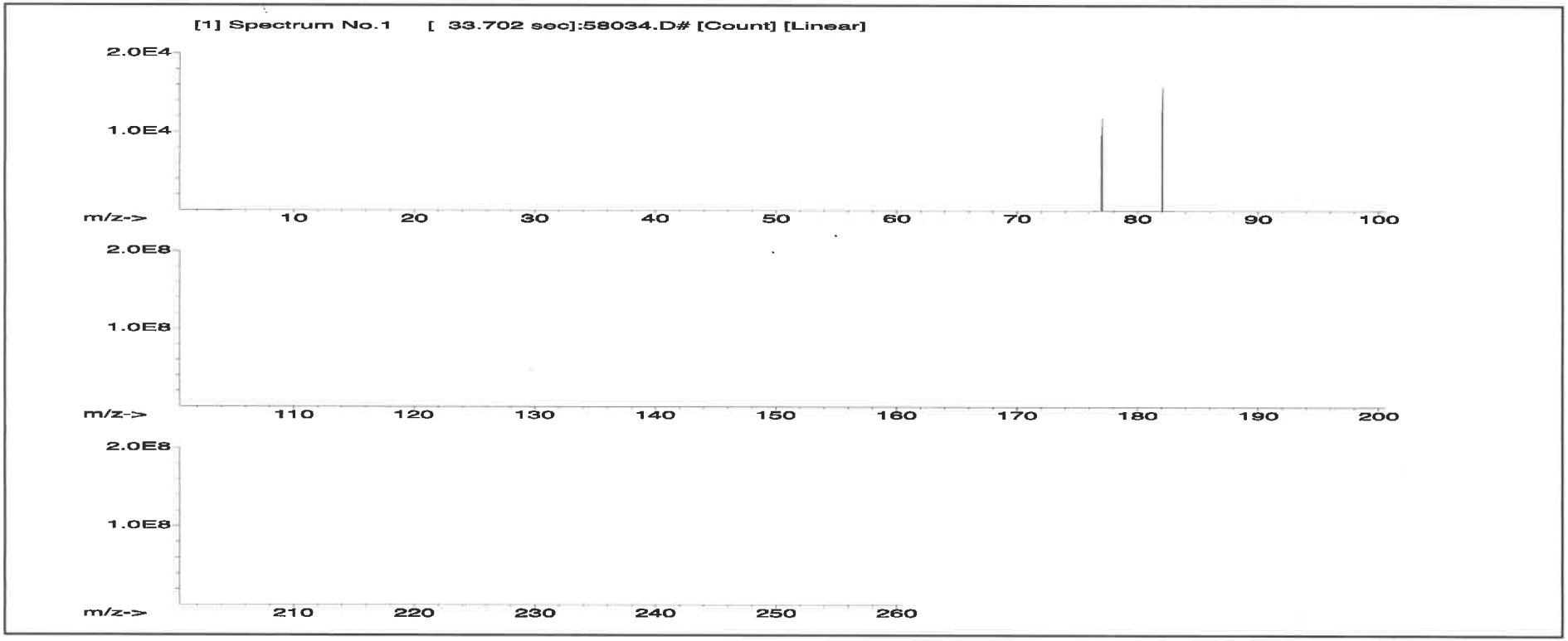
https://Absolutestandards.com

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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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5976, M5977
R: 02/22/24

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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

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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H5981 R:6/11/24

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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		

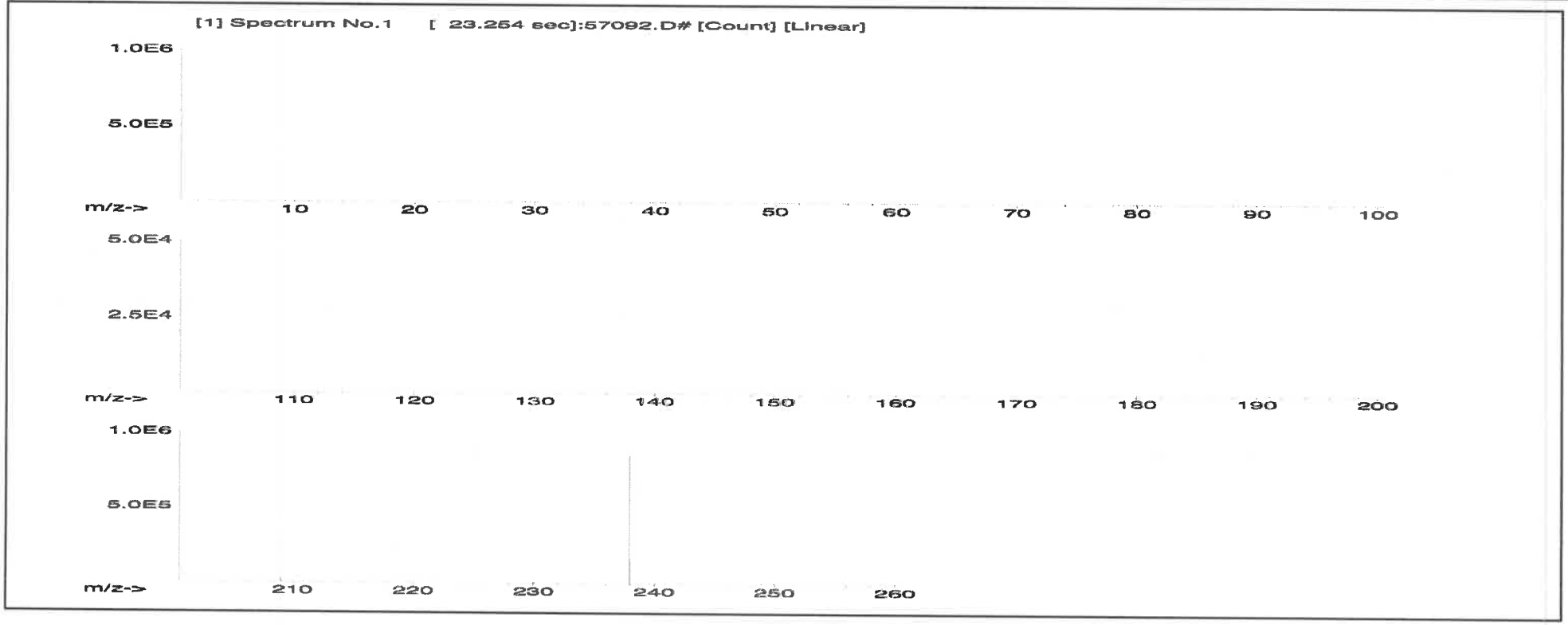
Giovanni Esposito

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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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	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).

Part # **57092** Lot # **060724**

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Certified Reference Material CRM

M5983 R: 6/11/24

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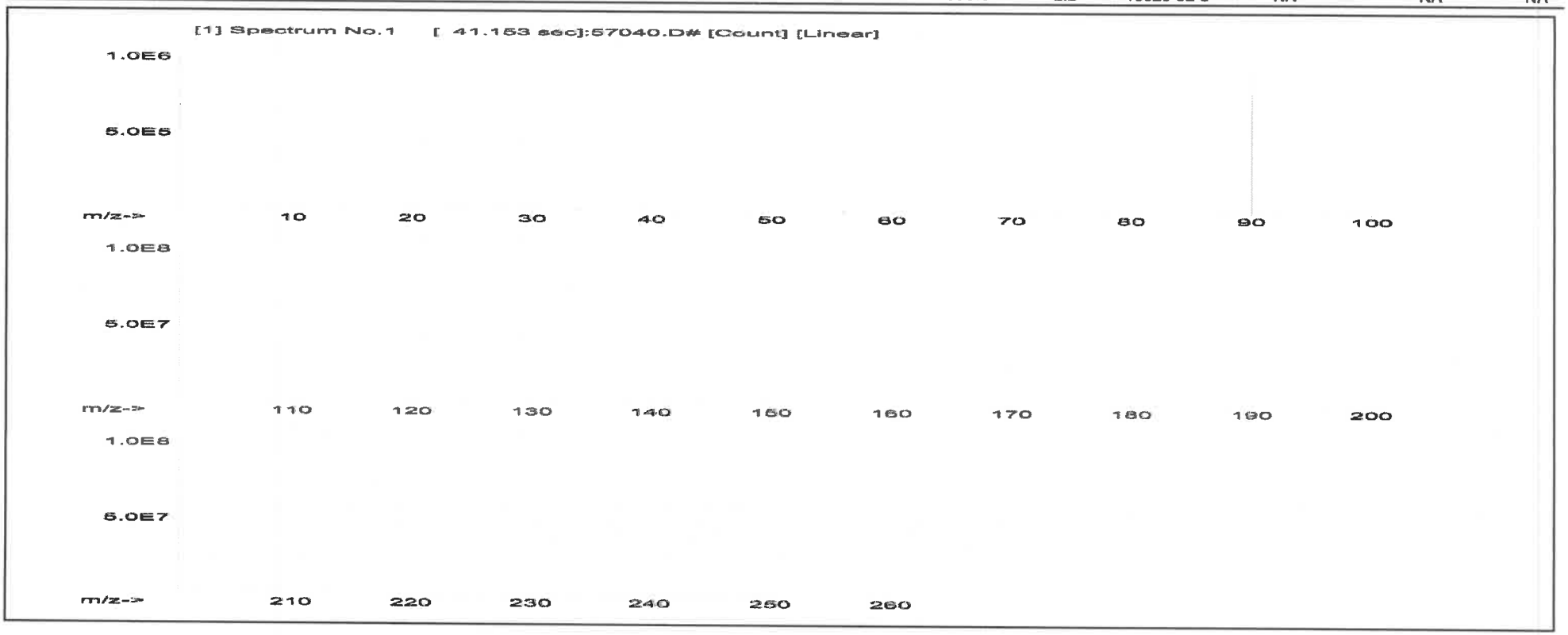
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

R 8/19/24, M60055

300 Technology Drive
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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	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

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Certificate of Analysis

R! 08/22/24 M6058, M6059

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6079 R: 9/30/24

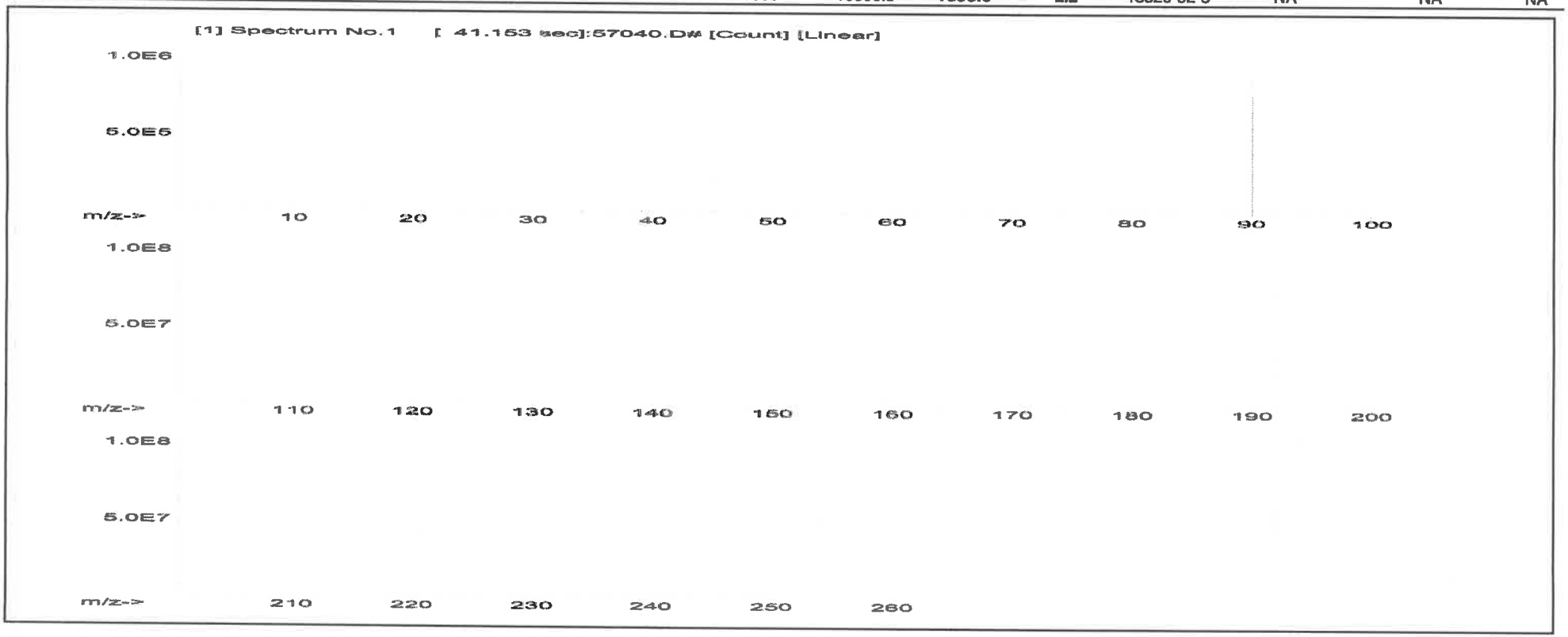
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



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	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Nitric Acid 69%
CMOS

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R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

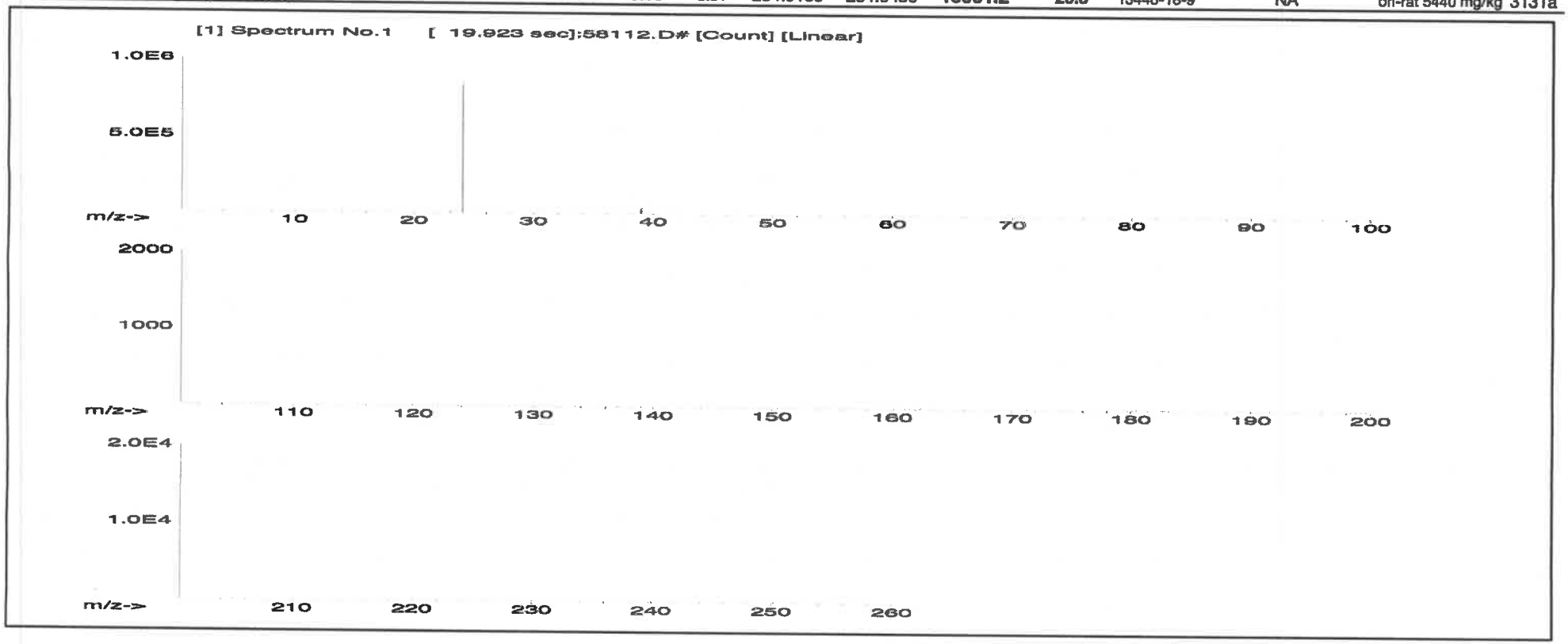
M 6127

Part Number:	**58112**	**Solvent:**	**Lot #** 24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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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:

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:

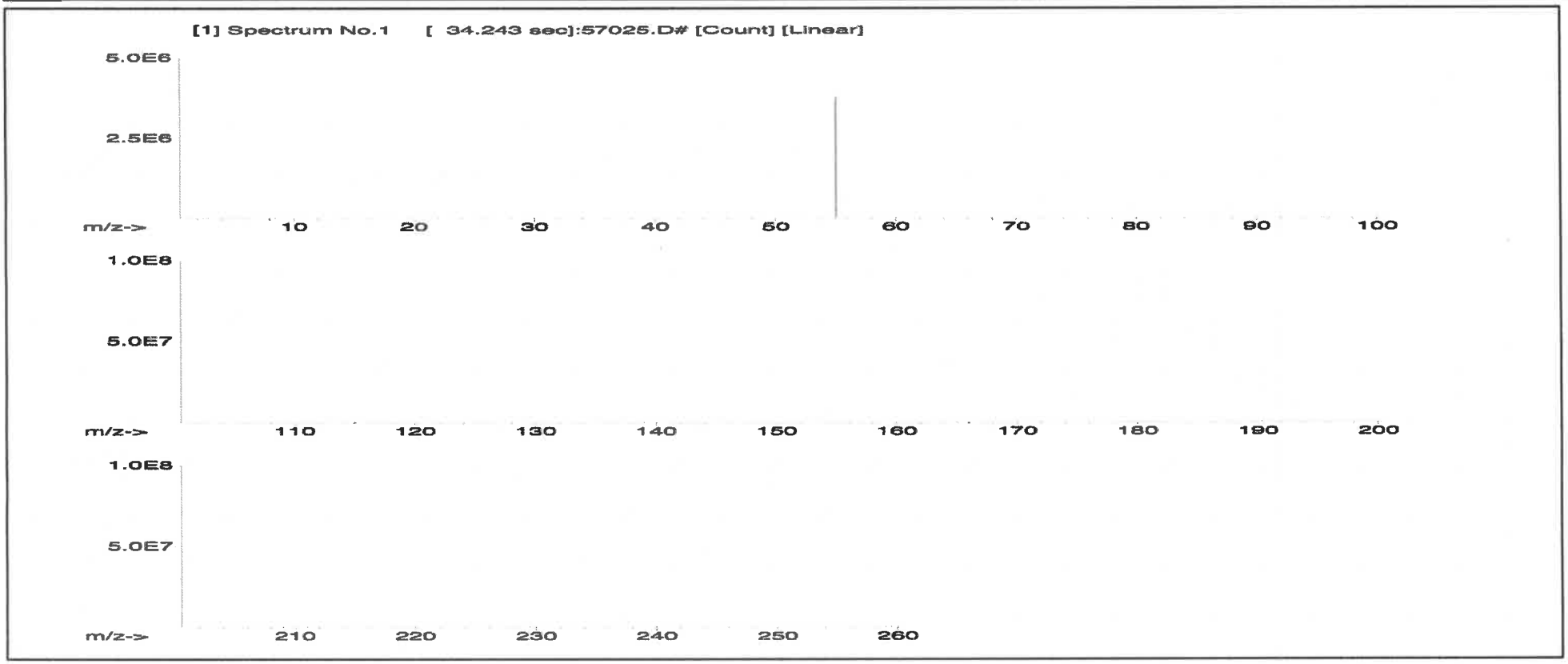
R->1/13/25
M6128

Part Number: 58025
Lot Number: 101124
Description: Manganese (Mn)
Expiration Date: 101127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.2 0.10 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	80.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 101124
Pedro Rentas
Reviewed By: Pedro L. Rentas 101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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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	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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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:

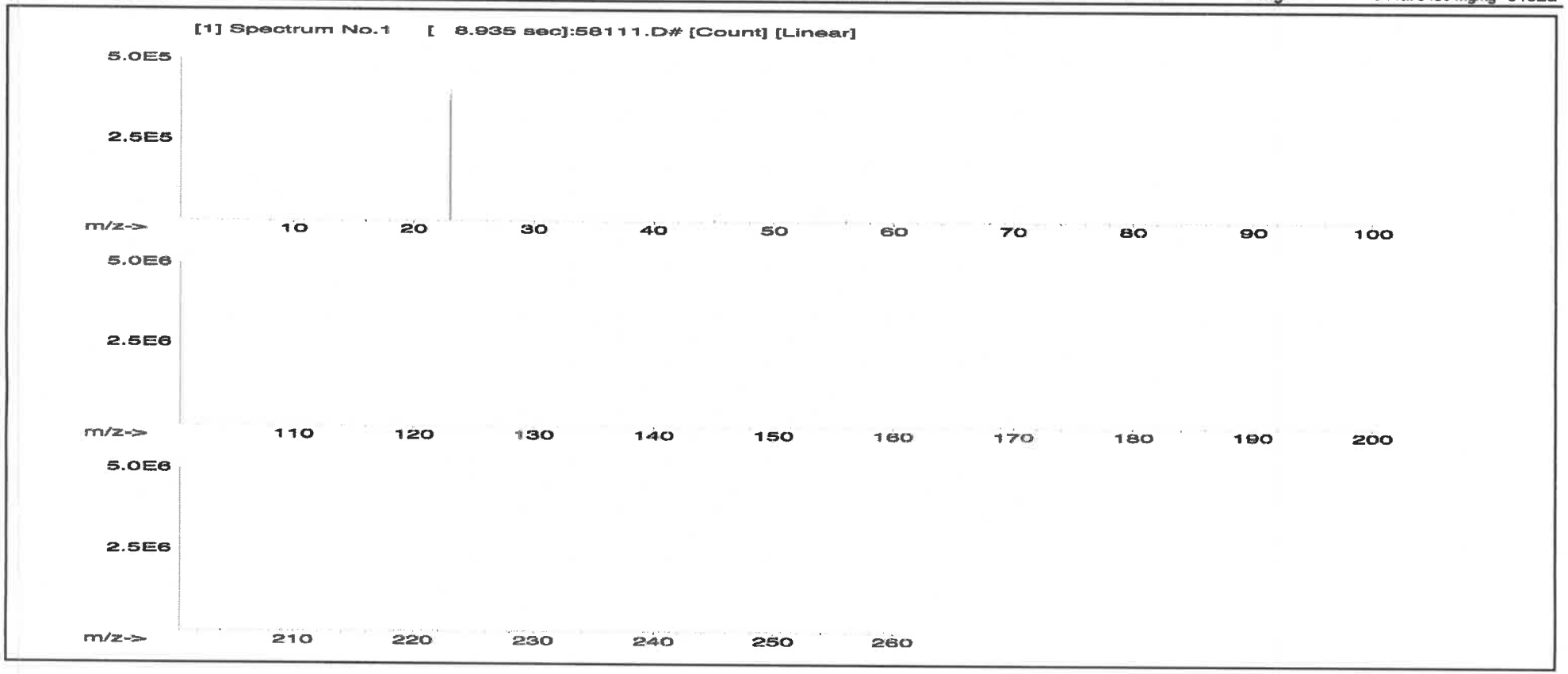
R->1/13/25

M6144

Part Number:	**58111**			**Lot #**	
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan	072424
Reviewed By:	Pedro L. Rentas	072424

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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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	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).

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

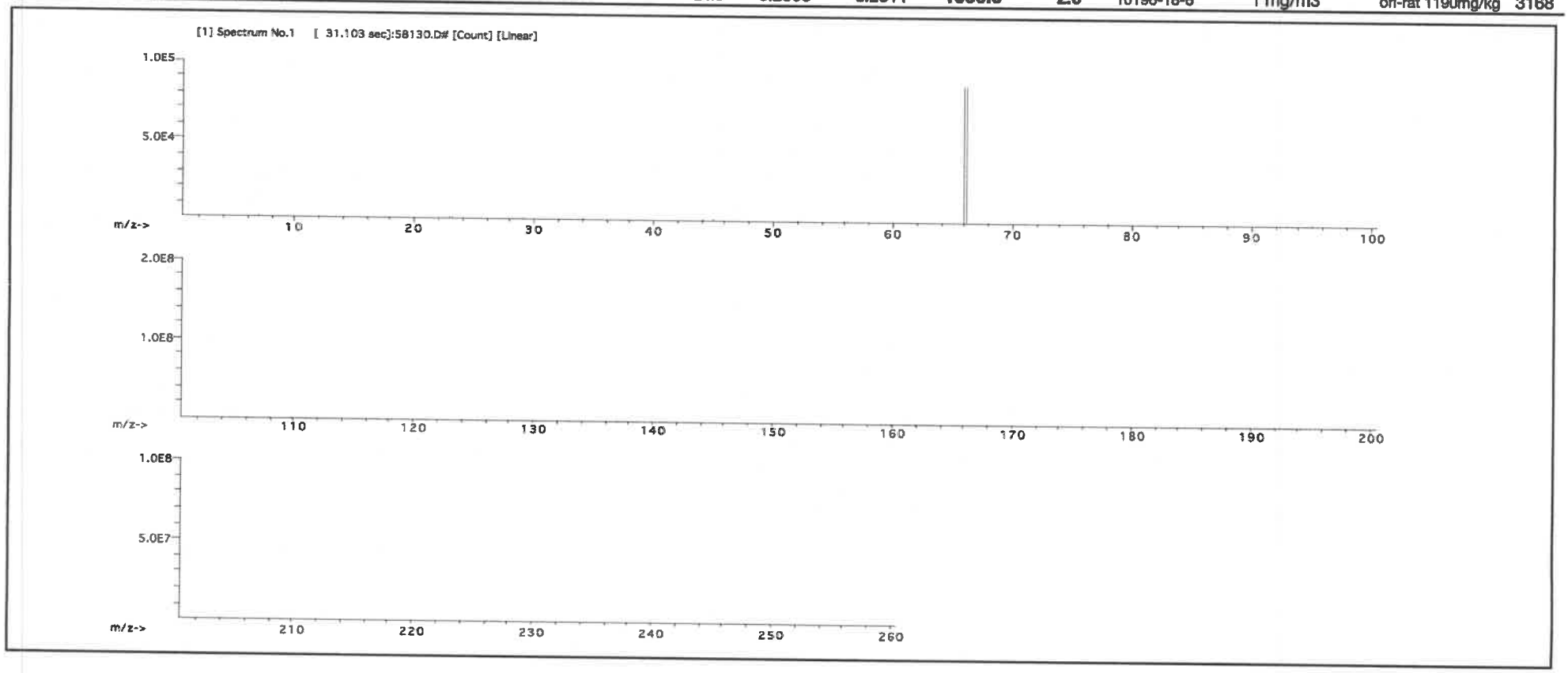
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

		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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https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

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.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 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

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES
Refine your results. Redefine your industry.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

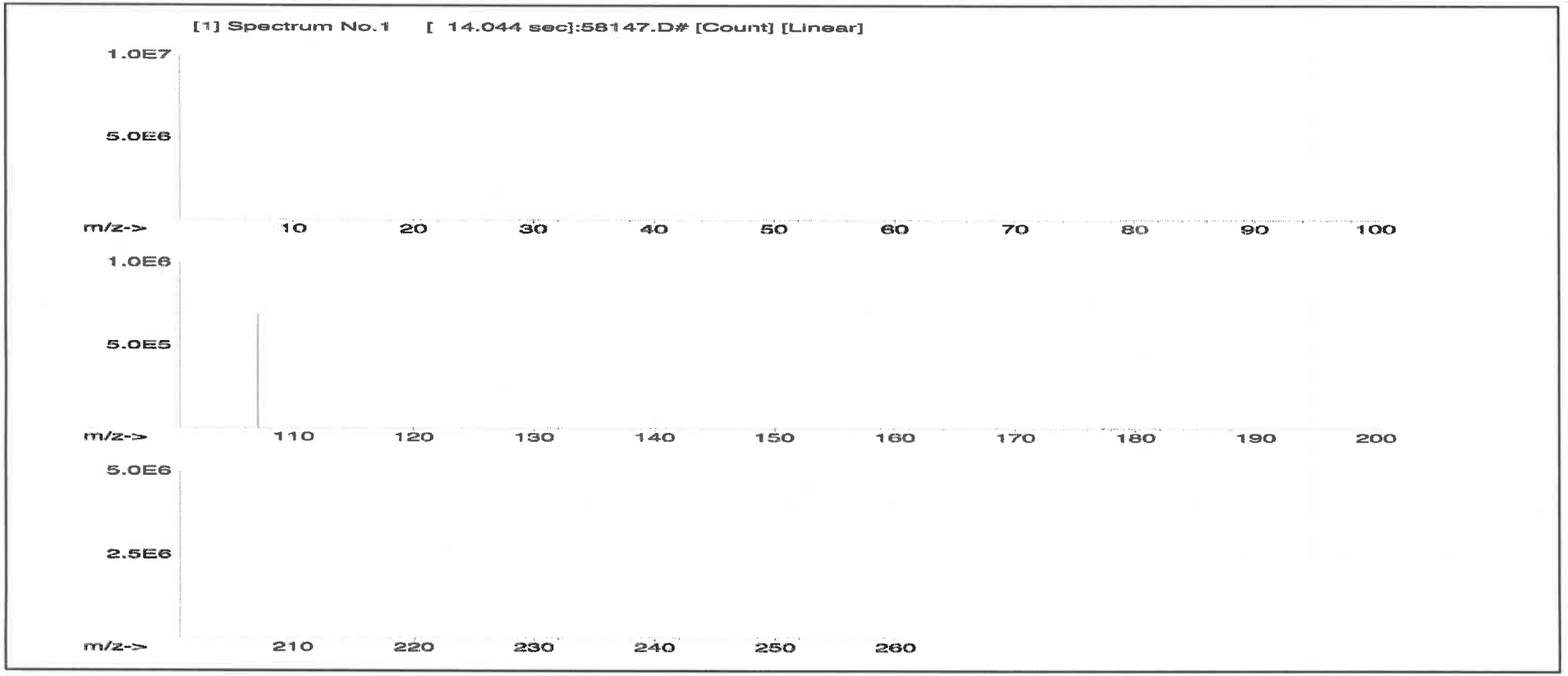
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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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	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 10/18/24

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CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.26	0.058	Flask Uncertainty	

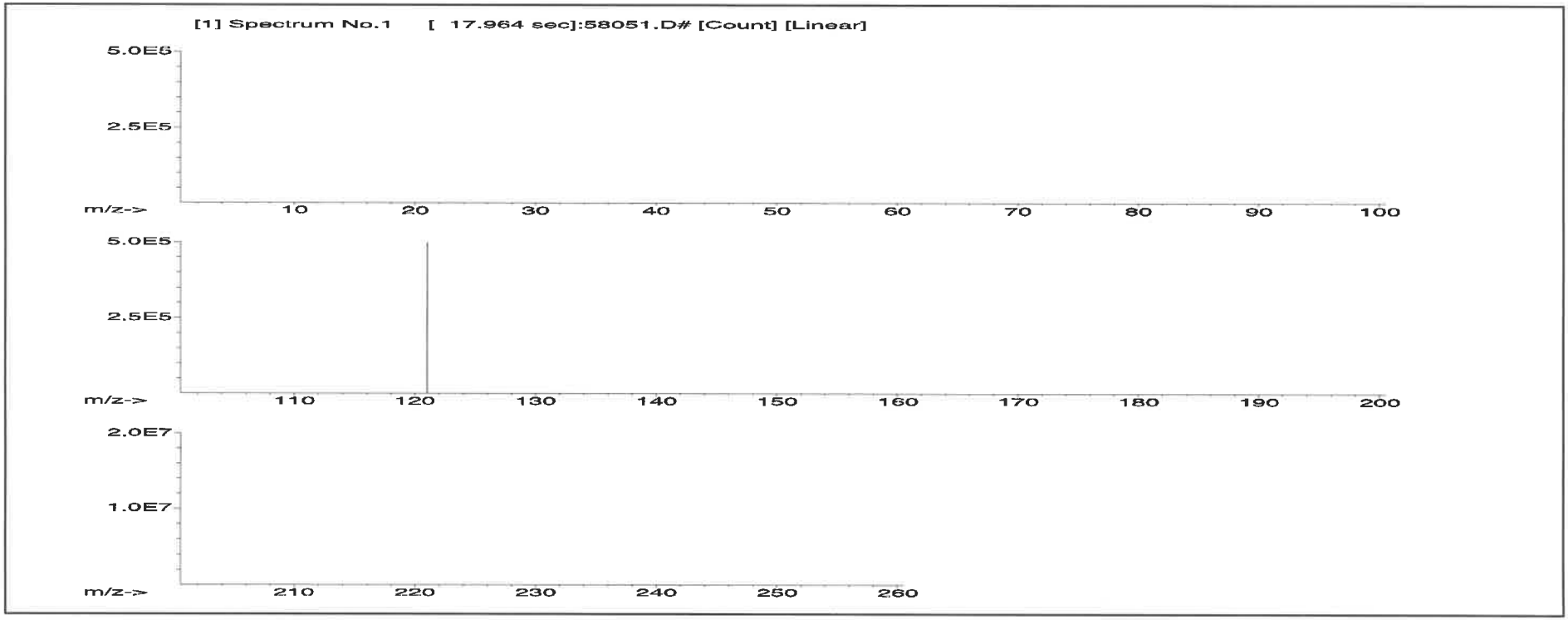
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 885.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 885.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

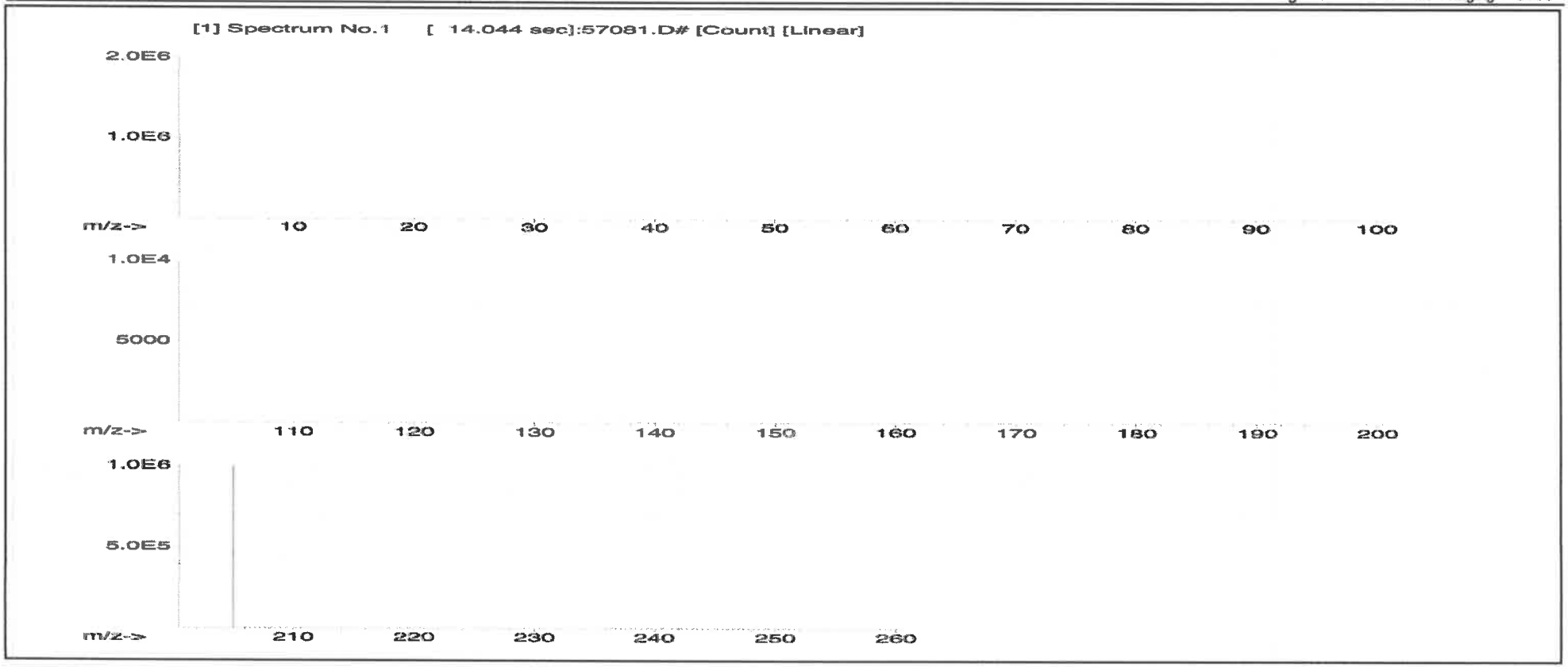
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM
M5545,M5546,M5547,M5548 RD:05/08/2023

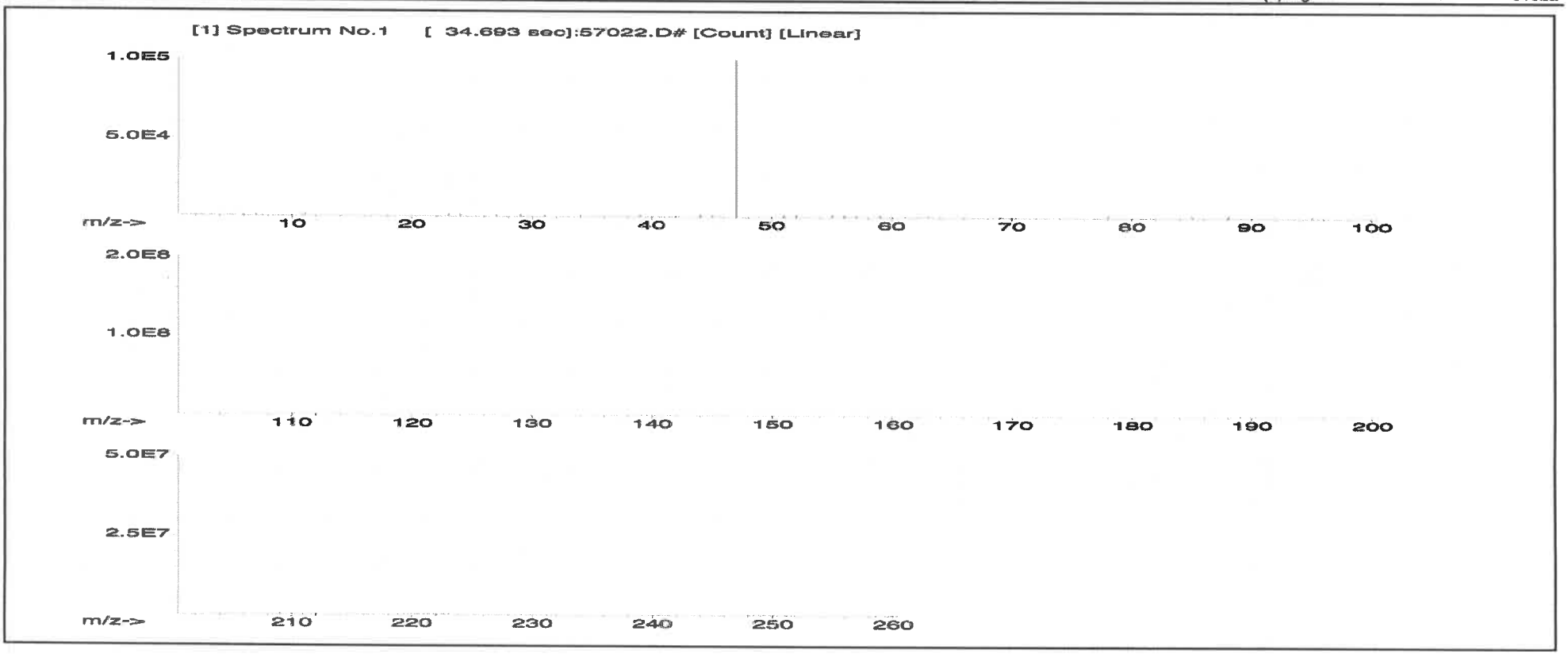
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**			
Lot Number:	**050223**	21110221	Nitric Acid	
Description:	**Titanium (Ti)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	050226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	050223
Reviewed By:	Pedro L. Rentas	050223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

B: 8/13/24 M6020

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	U2-U735194
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	2504
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1001 ± 4 µg/mL**
ICP Assay NIST SRM traceable to 3164 Lot Number: R2-U689597

Assay Method #2 **1000 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000270	M	Na		0.001811	M	Se	<	0.004800	M	Zn		0.002126
M	Al		0.000322	M	Fe		0.007481	M	Nb	<	0.000790	i	Si	<		M	Zr	<	0.000270
M	As	<	0.007300	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.001400	M	Gd	<	0.000270	M	Ni		0.000905	M	Sn	<	0.120000				
M	B	<	0.017000	M	Ge	<	0.000800	M	Os	<	0.000270	M	Sr	<	0.000270				
M	Ba	<	0.003100	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270				
M	Be	<	0.003200	M	Hg	<	0.000270	M	Pb		0.000511	M	Tb	<	0.000270				
M	Bi	<	0.003000	M	Ho	<	0.000270	M	Pd	<	0.000270	M	Te	<	0.001100				
M	Ca	<	0.048000	M	In	<	0.001400	M	Pr	<	0.000270	M	Th		0.000200				
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.000530				
M	Ce	<	0.000270	O	K	<	0.047000	M	Rb	<	0.000660	M	Tl	<	0.000270				
M	Co	<	0.000270	M	La		0.000322	M	Re	<	0.000270	M	Tm	<	0.000270				
M	Cr		0.001732	M	Li	<	0.001100	M	Rh	<	0.000270	s	U	<					
M	Cs	<	0.003500	M	Lu	<	0.000270	M	Ru	<	0.000270	M	V	<	0.003500				
M	Cu	<	0.005600	M	Mg		0.000240	i	S	<		M	W	<	0.000270				
M	Dy	<	0.000270	M	Mn	<	0.006500	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo		0.000433	M	Sc	<	0.000800	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form In Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 03, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

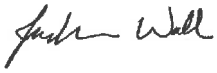
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

Rc. 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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	

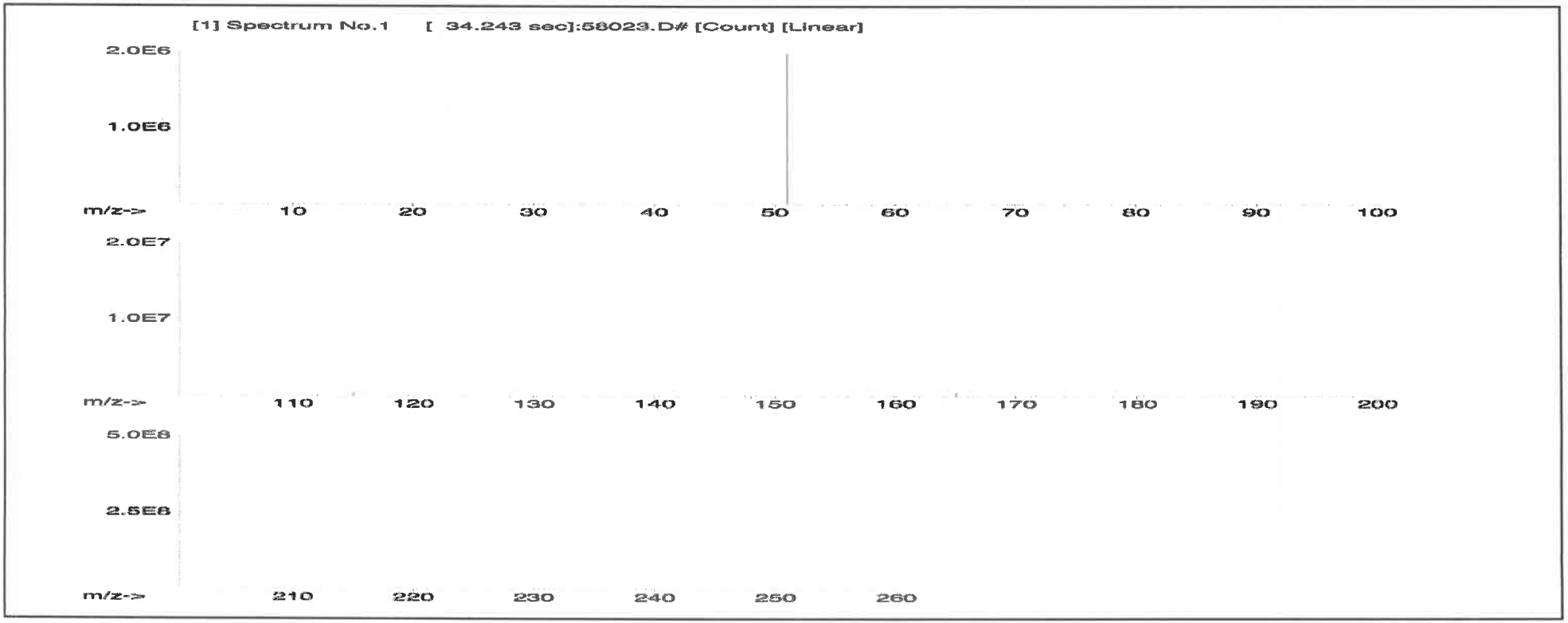
Aleah O'Brady

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.
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

SHIPPING DOCUMENTS

Q1730

Chemtech

Phone: (908) 789-8900
Fax: (908) 789-8922
284 Sheffield Street, Mountainside, NJ 07092

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 4_01/08/2020

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 Delivery
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-VSL-15-040325	4/3/25	1210	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-VSL-16-040325	4/3/25	1220	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-VSL-17-040325	4/3/25	1230	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-21-040325	4/3/25	1345	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-22-040325	4/3/25	1350	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-23-040325	4/3/25	1355	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-24-040325	4/3/25	1400	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-25-040325	4/3/25	1405	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-26-040325	4/3/25	1410	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-CF-15-040325	4/3/25	1300	G	S		3	2	1				X	X	X	X	X	X	X	X	X

[2] Preservation Code

Lab Use Only
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: 4/3/25 1700	Client Comments:
Received by: (signature)	Date/Time: 4/4/25 1045	2.7 ; 2.6
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
CT
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:

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 : Q1730 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 4/4/2025 10:51:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 4/4/2025 10:45:00 AM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 4/4/2025 11:24:53 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1730-01	OU4-VSL-15-040325	Solid	04/03/2025	12:10	VOCMS Group3		8260D		10 Bus. Days
Q1730-03	OU4-VSL-16-040325	Solid	04/03/2025	12:20	VOCMS Group3		8260D		10 Bus. Days
Q1730-05	OU4-VSL-17-040325	Solid	04/03/2025	12:30	VOCMS Group3		8260D		10 Bus. Days
Q1730-07	OU4-PCS-TC-21-040325	Solid	04/03/2025	13:45	VOCMS Group3		8260D		10 Bus. Days
Q1730-09	OU4-PCS-TC-22-040325	Solid	04/03/2025	13:50	VOCMS Group3		8260D		10 Bus. Days
Q1730-11	OU4-PCS-TC-23-040325	Solid	04/03/2025	13:55	VOCMS Group3		8260D		10 Bus. Days
~~Q1730-13~~	~~OU4-PCS-TC-24-040325~~	Solid	04/03/2025	14:00	VOCMS Group3		8260D		10 Bus. Days
Q1730-15	OU4-PCS-TC-25-040325	Solid	04/03/2025	14:05					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1730 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 4/4/2025 10:51:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 4/4/2025 10:45:00 AM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 4/4/2025 11:24:53 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group3		8260D		10 Bus. Days
Q1730-17	OU4-PCS-TC-26-040325	Solid	04/03/2025	14:10					
					VOCMS Group3		8260D		10 Bus. Days
Q1730-19	OU4-CF-15-040325	Solid	04/03/2025	13:00					
					VOCMS Group3		8260D		10 Bus. Days

Relinguished By : [signature]
Date / Time : 4/4/25 1145

Received By : [signature]
Date / Time : 4/4/25 14:15

Storage Area : VOA Refridgerator Room