SDG COVER PAGE

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

Lab Code: ACE Case No.: 51943 MA No.: SDG No.: MC0B99

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MC0B99	Q1085-01	X	X	X	
MC0BA0	Q1085-02		X	X	
MC0BA1	Q1085-03		X	X	
MC0BA2	Q1085-04	X	X	X	
MC0BA2D	Q1085-05	X	X	X	
MC0BA2S	Q1085-06	X	X	X	
MC0BA4	Q1085-07	X	X	X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MC0B99

USEPA CLP COC (LAB COPY)

DateShipped: 1/14/2025

CarrierName: FedEx

AirbillNo: 7712 4245 ~~2723~~ 2734

CHAIN OF CUSTODY RECORD

Case #: 51943

Case Complete: True

cooler 2 of 2

No: CLP_51943_Ship1

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SP1166_0125	C0B98	Groundwater/ Versar	Grab	TVOA(7)	1826 (HCl pH <2) (4)	SP-1166	01/14/2025 09:45	
SP120_0125	C0B99	Groundwater/ Versar	Grab	TVOA(7), 1,4-Diox SIM(7), 1,4-Diox(7)	1827 (HCl pH <2), 1829 (Ice), 1831 (Ice) (6)	SP-120	01/14/2025 10:30	
SP1720_0125	C0BA2	Groundwater/ Versar	Grab	TVOA(7), 1,4-Diox SIM(7), 1,4-Diox(7)	1834 (HCl pH <2), 1836 (Ice), 1838 (Ice) (18)	SP-1720	01/14/2025 09:00	
SP902_0125	C0BA3	Groundwater/ Versar	Grab	TVOA(7)	1839 (HCl pH <2) (4)	SP-902	01/14/2025 09:55	
SP91720_0125	C0BA4	Groundwater/ Versar	Grab	TVOA(7), 1,4-Diox SIM(7), 1,4-Diox(7)	1840 (HCl pH <2), 1842 (Ice), 1844 (Ice) (6)	SP-1720	01/14/2025 09:00	
TB001_0125	C0BA5	Blank/ Versar	Grab	TVOA(7)	1845 (HCl pH <2) (4)	BLANK	01/14/2025 08:00	
SP120_0125	MC0B99	Groundwater/ Versar	Grab	ICP-MS MTL + Hg(7), ICP-AES HARD(7)	1828 (HNO3 pH <2), 1830 (HNO3 pH <2) (2)	SP-120	01/14/2025 10:30	
SP1330_0125	MC0BA0	Groundwater/ Versar	Grab	ICP-MS MTL + Hg(7)	1832 (HNO3 pH <2) (1)	SP-1330	01/14/2025 09:35	
SP1340_0125	MC0BA1	Groundwater/ Versar	Grab	ICP-MS MTL + Hg(7)	1833 (HNO3 pH <2) (1)	SP-1340	01/14/2025 09:30	
SP1720_0125	MC0BA2	Groundwater/ Versar	Grab	ICP-MS MTL + Hg(7), ICP-AES HARD(7)	1835 (HNO3 pH <2), 1837 (HNO3 pH <2) (2)	SP-1720	01/14/2025 09:00	
SP91720_0125	MC0BA4	Groundwater/ Versar	Grab	ICP-MS MTL + Hg(7), ICP-AES HARD(7)	1841 (HNO3 pH <2), 1843 (HNO3 pH <2) (2)	SP-1720	01/14/2025 09:00	

Sample(s) to be used for Lab QC: SP1720_0125 Tag 1834, SP1720_0125 Tag 1836, SP1720_0125 Tag 1838, SP1720_0125 Tag 1835, SP1720_0125 Tag 1837

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TVOA=CLP Volatiles (Trace), 1,4-Diox SIM=CLP 1,4-Dioxane-SIM, 1,4-Diox=CLP 1,4-Dioxane Full, ICP-MS MTL + Hg=CLP ICP-MS Metals (+11) + Mercury, ICP-AES HARD=CLP ICP-AES 1-4 Metals + Hardness (TAT 14 Days)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples for analysis	Versar	1/14/24 1230		1-15-25 1003	IR Gun #1
					Temp 3.1C
					Temp blank present
					Custody Seal intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Jorge Mesa		Log-in Date **1/15/2025**
Received By (Signature)		
Case Number 51943	SDG No. MC0B99	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	771242452734 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	3.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	01/15/2025
12.Time Received	10:03

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MC0B99	1.3	1828,30	Q1085-01	Intact
2	MC0BA0	1.3	1832	Q1085-02	Intact
3	MC0BA1	1.3	1833	Q1085-03	Intact
4	MC0BA2	1.3	1835,37	Q1085-04	Intact
5	MC0BA2D	1.3	1835,37	Q1085-05	Intact
6	MC0BA2S	1.3	1835,37	Q1085-06	Intact
7	MC0BA4	1.3	1841,43	Q1085-07	Intact
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	1/15/25	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51943**	SDG NO.	**MC0B99**
MA NO.		SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	2	✓	
3 . Sample Log-In Sheet (DC-1)	3	3	✓	
4 . CSF Inventory Sheet (DC-2)	4	6	✓	
5 . SDG Narrative	7	11	✓	
6 . Communication Logs	12	15	✓	
7 . Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	16	18	✓	
9 . Instrument raw data by instrument in analysis order	19	97	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	98	231	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	232	233	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	234	235	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	236	240	✓	
18 . Instrument raw data by instrument in analysis order	241	1004	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1005	1146	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1147	1148	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1149	1155	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	1156	1160	✓	
27. Instrument raw data by instrument in analysis order	1161	1162	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1163	1189	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1190	1191	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1192	1193	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	1194	1194	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1195	1196	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1197	1199	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab)

(Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	(Date)

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MC0B99
CASE # 51943
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1085

A. Number of Samples and Date of Receipt

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

B. Parameters

Test requested for Metals CLP4 = Calcium, Magnesium, Hardness Total & Mercury.

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 3.1^{o}C

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

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

Issue 2: Hardness is not scheduled for this Case, but the COC analysis key indicates that hardness is required.

Issue 3: A 7-day TAT is scheduled for this Case, but the COC analysis key indicates a 14-day TAT.

E. Corrective Action taken for above:

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

Resolution 2: As per Region 3, there are nine aqueous samples scheduled for ICP-AES 1-4 Metals; the nine samples are to be analyzed for Ca, Mg, and hardness. Hardness will be scheduled for the nine samples. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 3: As per Region 3, please make note of the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (7-Day TAT).

F. Analytical Techniques:

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

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF \times 1000$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample MC0B99 For Calcium:

If C = 68.10030 ppm
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 68.10030 \times \frac{50}{50} \times 1 \times 1000$$

= 68100.30 µg/L

= 68000 µg/L (Reported Result with Signification)

Calculation for ICP-MS Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample MC0B99 For Arsenic:

If C = 0.35 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $0.35 \times \frac{50}{50} \times 1$

= 0.35 µg/L

= 0.35 µg/L (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For Sample MC0B99:

If C = 0.0534 ppb
DF = 1

Concentration or Result (µg/L) = 0.0534 x 1

= 0.0534 µg/L

= 0.053 µg/L (Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

284 Sheffield Street
Mountainside, NJ 07092

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

284 Sheffield Street
Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Wednesday, January 15, 2025 5:10 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Bauer, Heather E; Johnson, Matthew; Burman, Jarmael
Subject: Region 03 | Case 51943 | Lab ACE | Issue Documentation | FINAL

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

Secured by Check Point

Good afternoon ACE,

Scheduling
Issue 1: Hardness is not scheduled for this Case, but the COC analysis key indicates that hardness is required.

Resolution 1: As per Region 3, there are nine aqueous samples scheduled for ICP-AES 1-4 Metals; the nine samples are to be analyzed for Ca, Mg, and hardness. Hardness will be scheduled for the nine samples. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Discrepancies with tags, jars, and/or COC
Issue 2: A 7-day TAT is scheduled for this Case, but the COC analysis key indicates a 14-day TAT.

Resolution 2: As per Region 3, please make note of the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (7-Day TAT).

Insufficient/inappropriate designation of laboratory QC
Issue 3: Laboratory QC is not scheduled for TVOA or 1,4-Dioxane for Case 51943, however the COC lists a QC sample for both TVOA and 1,4-Dioxane.

Resolution 3: As per SOW SFAM01.1 Exhibit A, Section 5.5.4.2, note the issue in the SDG Narrative and proceed with the analysis of the samples based on the scheduling instructions.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166

Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com
GENERAL DYNAMICS
information technology

From: Burman, Jarmael <Burman.Jarmael@epa.gov>
Sent: Wednesday, January 15, 2025 4:10 PM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: RE: Region 03 | Case 51943 | Lab ACE | Issue Multiple

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Wednesday, January 15, 2025 3:39 PM
To: Burman, Jarmael <Burman.Jarmael@epa.gov>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 03 | Case 51943 | Lab ACE | Issue Multiple

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon Jay, Please advise on issue 1 and 2 from ACE, please note that issue 3 was able to be resolved using the SOW

Discrepancies with tags, jars, and/or COC

Issue 1 Hardness is not scheduled for this Case, but the COC analysis key indicates that hardness is required. **Response** – There are Nine Aqueous Samples scheduled for ICP-AES 1-4 Metals; the Nine Samples are to be analyzed for Calcium and Magnesium Hardness. Please have ACE calculate Hardness from the Calcium and Magnesium recoveries from these samples.

Issue 2: A 7-day TAT is scheduled for this Case, but the COC analysis key indicates a 14-day TAT. **Response** – Have ACE make note of the issue in their SDG Narrative and proceed with the analysis of the samples as scheduled (7-Day TAT).

Insufficient/inappropriate designation of laboratory QC

Issue 3: Laboratory QC is not scheduled for TVOA or 1,4-Dioxane for Case 51943, however the COC lists a QC sample for both TVOA and 1,4-Dioxane.

Resolution 3: As per SOW SFAM01.1 Exhibit A, Section 5.5.4.2, note the issue in the SDG Narrative and proceed with the analysis of the samples based on the scheduling instructions.

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166
Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Wednesday, January 15, 2025 11:50 AM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: RE: Region 03 | Case 51943 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hello,
One more issue Qc is not schedule for TVOA , 1,4- Dioxane in this case however, qc sample mentioned on COC. Therefor Lab like to know how to process ?

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Deepak Parmar
Sent: Wednesday, January 15, 2025 11:19 AM
To: DeBerry, Eric <Eric.Deberry@gdit.com>

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 03 | Case 51943 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Good morning,

As per ASR Hardness analysis not required however, received COC is not mentioned Hardness and Analysis key mentioned 14 days TAT but this case is for 7 days TAT. Therefor Lab like to know how to process ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

EPA SAMPLE NO.

MC0B99

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-01

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-70-2	Calcium	68000		01/20/2025	1338
7439-95-4	Magnesium	25000		01/20/2025	1338
Hardness	Hardness (total)	270		01/20/2025	1338

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

Comments:

EPA SAMPLE NO.

MC0BA2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-04

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_AES

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-70-2	Calcium	70000		01/20/2025	1342
7439-95-4	Magnesium	26000		01/20/2025	1342
Hardness	Hardness (total)	280		01/20/2025	1342

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

Comments:

EPA SAMPLE NO.

MC0BA4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-07

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_AES

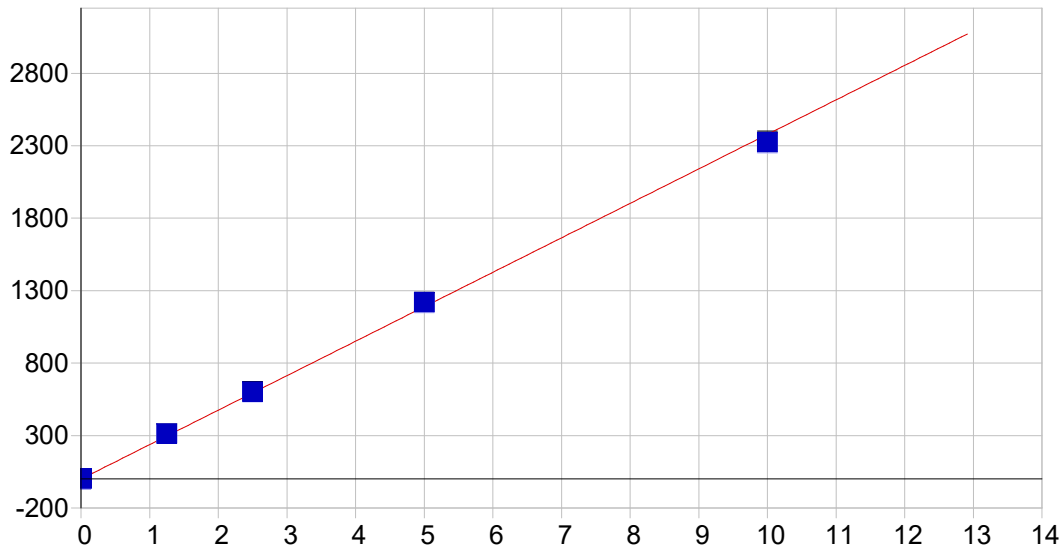
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-70-2	Calcium	68000		01/20/2025	1357
7439-95-4	Magnesium	25000		01/20/2025	1357
Hardness	Hardness (total)	270		01/20/2025	1357

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

Comments:

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



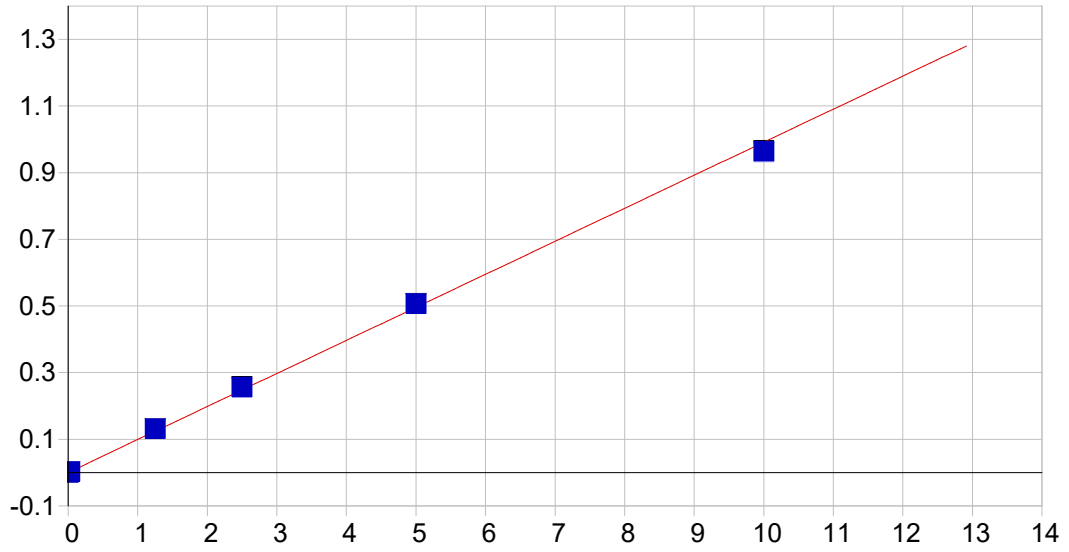
As 189.042 {478}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.404972	Re-Slope:	1.000000
A1 (Gain):	237.892856	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999639	Status:	OK.
Std Error of Est:	0.106684		
Predicted MDL:	0.003678		
Predicted MQL:	0.012260		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.40586	.084	1
S1	.01000	.01306	.003	30.6	2.6986	.448	1
S2	1.2500	1.3188	.069	5.50	312.07	1.06	1
S3	2.5000	2.5267	.027	1.07	598.18	4.23	1
S4	5.0000	5.1281	.128	2.56	1214.5	1.27	1
S5	10.000	9.7734	-.227	-2.27	2314.6	8.28	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
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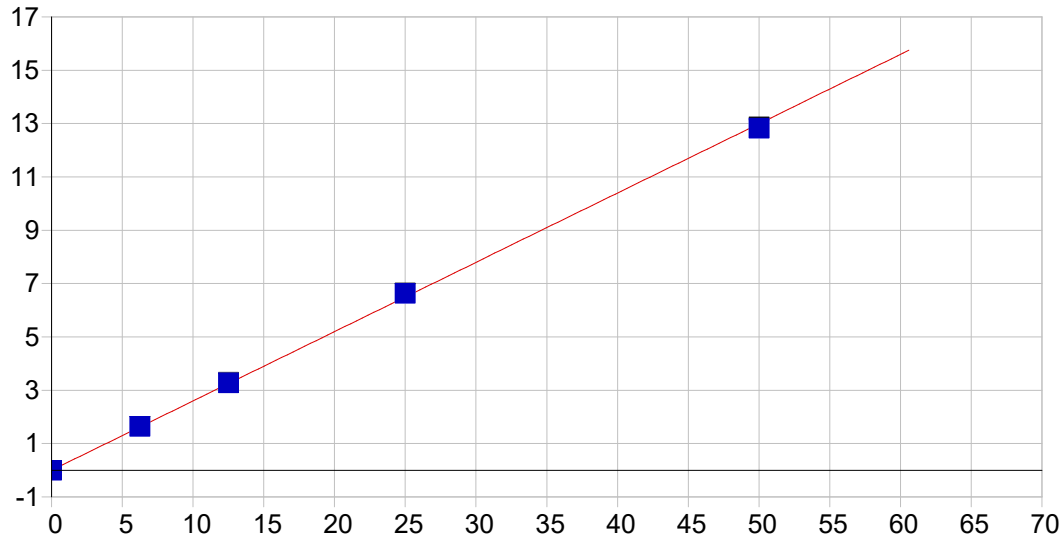


Tl 190.856 {477}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000071	Re-Slope:	1.000000
A1 (Gain):	0.099139	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999513	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.001887		
Predicted MQL:	0.006292		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.02500	.02616	.001	4.64	.00258	.000	1
S2	1.2500	1.3269	.077	6.15	.13130	.000	1
S3	2.5000	2.5851	.085	3.40	.25571	.002	1
S4	5.0000	5.1165	.116	2.33	.50603	.000	1
S5	10.000	9.7204	-.280	-2.80	.96119	.003	1



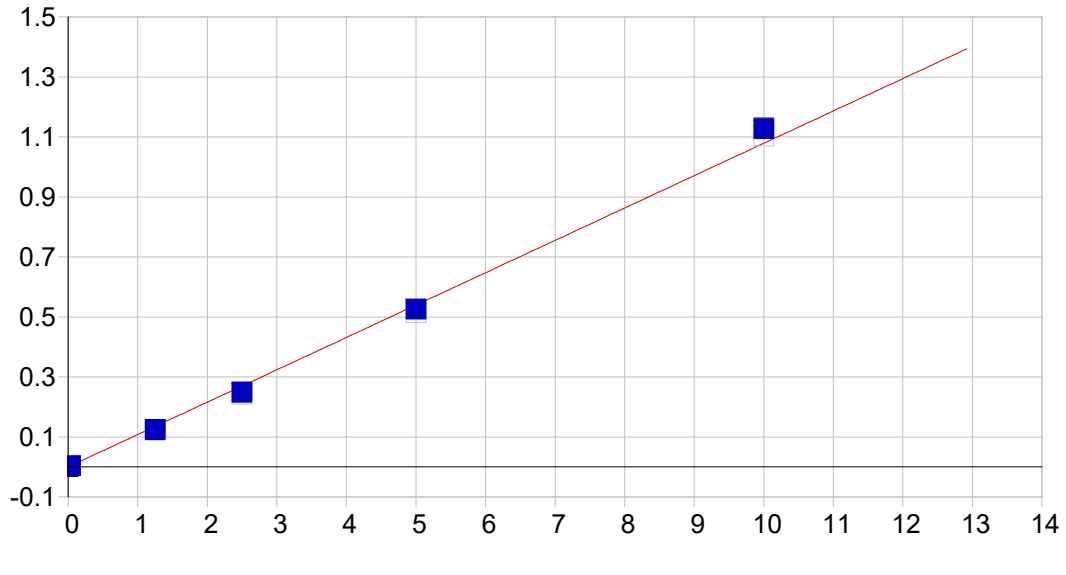
Pb 220.353 {453}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000254	Re-Slope:	1.000000
A1 (Gain):	0.259888	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000144		
Predicted MDL:	0.001713		
Predicted MQL:	0.005709		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00025	.000	1
S1	.01000	.00990	-.000	-1.01	.00281	.001	1
S2	6.2500	6.3074	.057	.919	1.6377	.003	1
S3	12.500	12.583	.083	.663	3.2669	.026	1
S4	25.000	25.518	.518	2.07	6.6252	.009	1
S5	50.000	49.341	-.659	-1.32	12.809	.044	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



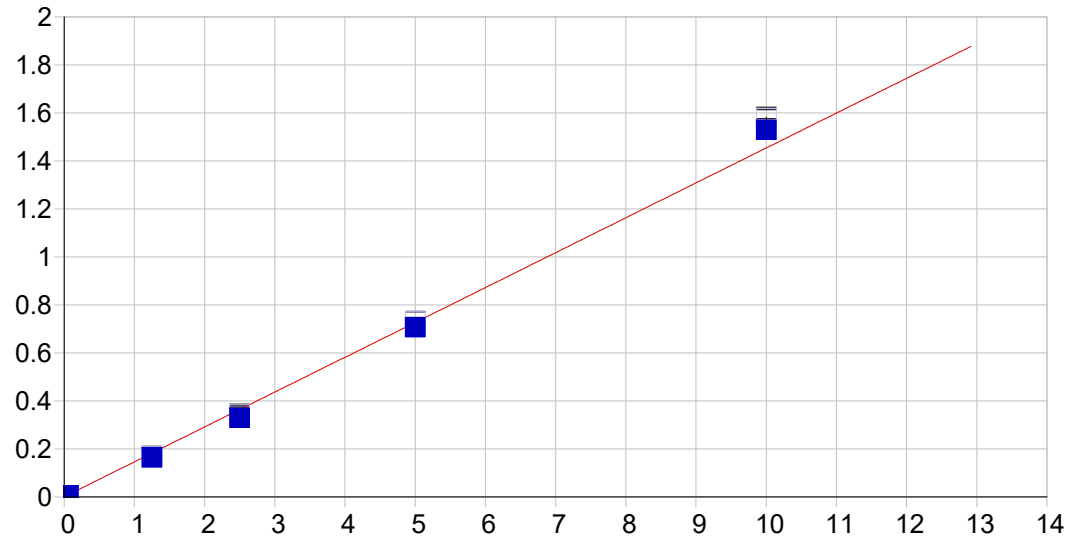
Se 196.090 {472}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000044	Re-Slope:	1.000000
A1 (Gain):	0.107861	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998625	Status:	OK.
Std Error of Est:	0.000174		
Predicted MDL:	0.002399		
Predicted MQL:	0.007996		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00005	.000	1
S1	.03500	.02941	-.006	-16.0	.00321	.000	1
S2	1.2500	1.1490	-.101	-8.08	.12095	.000	1
S3	2.5000	2.2915	-.209	-8.34	.24114	.003	1
S4	5.0000	4.8713	-.129	-2.57	.51334	.001	1
S5	10.000	10.444	.444	4.44	1.1023	.004	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



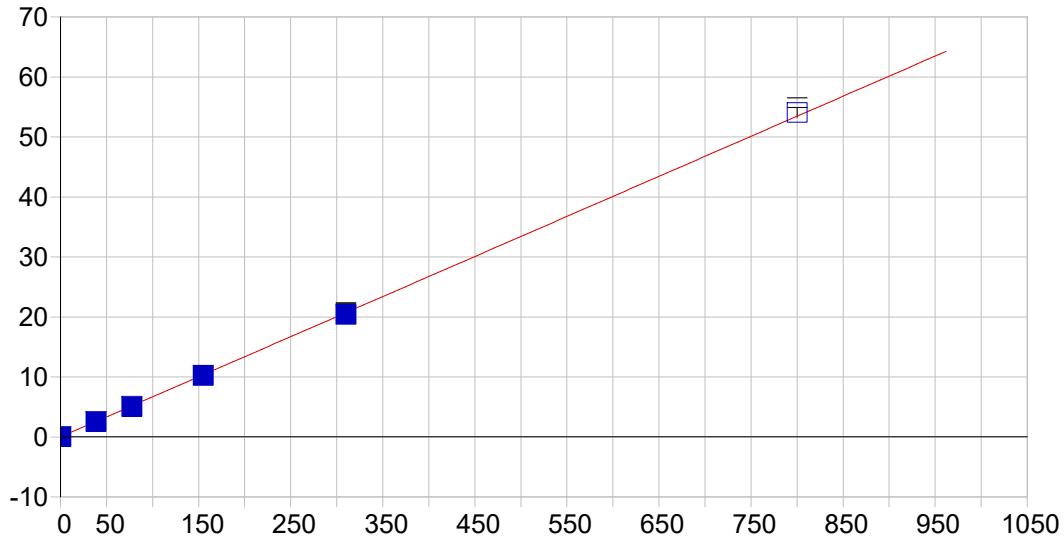
Sb 206.833 {463}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000758	Re-Slope:	1.000000
A1 (Gain):	0.145277	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998287	Status:	OK.
Std Error of Est:	0.000362		
Predicted MDL:	0.002115		
Predicted MQL:	0.007049		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00076	.000	1
S1	.06000	.04776	-.012	-20.4	.00770	.000	1
S2	1.2500	1.1212	-.129	-10.3	.16971	.000	1
S3	2.5000	2.2657	-.234	-9.37	.34205	.003	1
S4	5.0000	4.8550	-.145	-2.90	.73036	.001	1
S5	10.000	10.520	.520	5.20	1.5776	.005	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



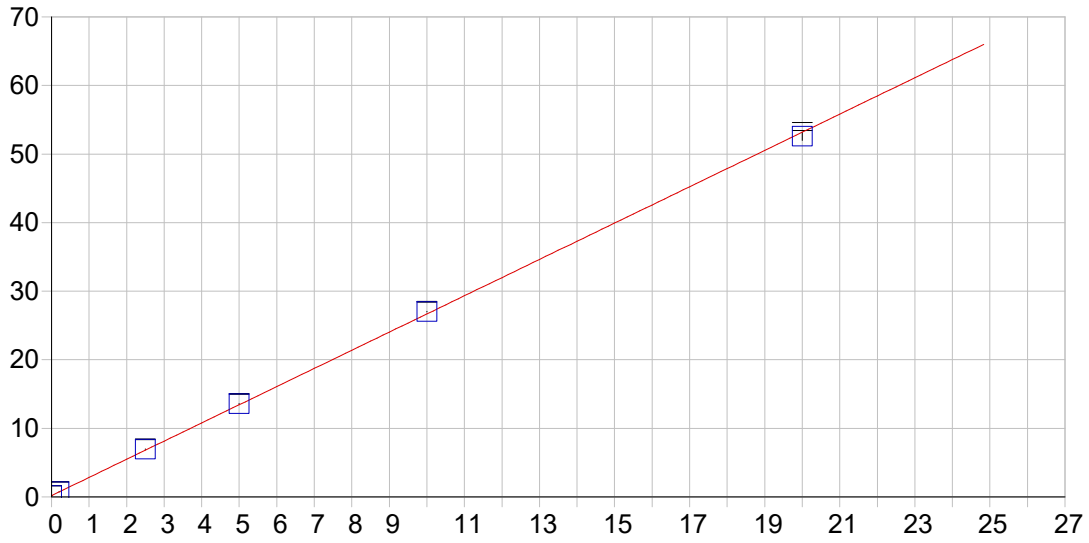
Al 396.152 { 85}

Date of Fit:	01/20/2025 13:13:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000611	Re-Slope:	1.000000
A1 (Gain):	0.066807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999903	Status:	OK.
Std Error of Est:	0.000577		
Predicted MDL:	0.025018		
Predicted MQL:	0.083392		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00061	.001	1
S1	.20000	.22542	.025	12.7	.01447	.001	1
S2	38.750	38.000	-.750	-1.94	2.5408	.019	1
S3	77.500	75.641	-1.86	-2.40	5.0584	.020	1
S4	155.00	152.95	-2.05	-1.33	10.229	.023	1
S5	310.00	305.36	-4.64	-1.50	20.422	.250	1
S6	800.00	809.29	9.29	1.16	54.066	.796	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



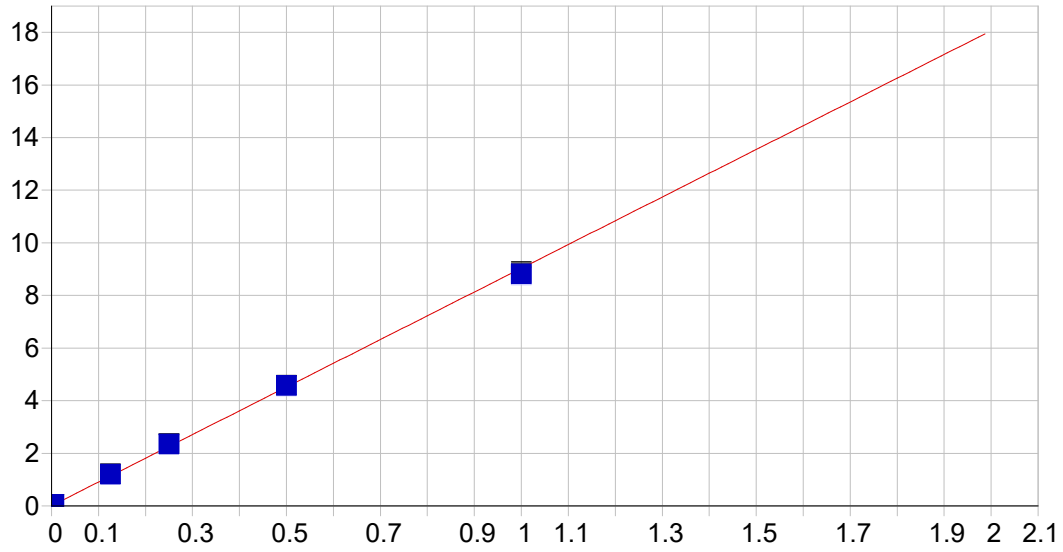
Ba 493.409 { 68}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.195004	Re-Slope:	1.000000
A1 (Gain):	2.649196	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999922	Status:	OK.
Std Error of Est:	0.003528		
Predicted MDL:	0.001684		
Predicted MQL:	0.005615		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.19497	.003	1
S1	.20000	.20720	.007	3.60	.74391	.004	1
S2	2.5000	2.5518	.052	2.07	6.9551	.059	1
S3	5.0000	5.0478	.048	.956	13.568	.052	1
S4	10.000	10.123	.123	1.23	27.012	.060	1
S5	20.000	19.771	-.229	-1.15	52.572	.577	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



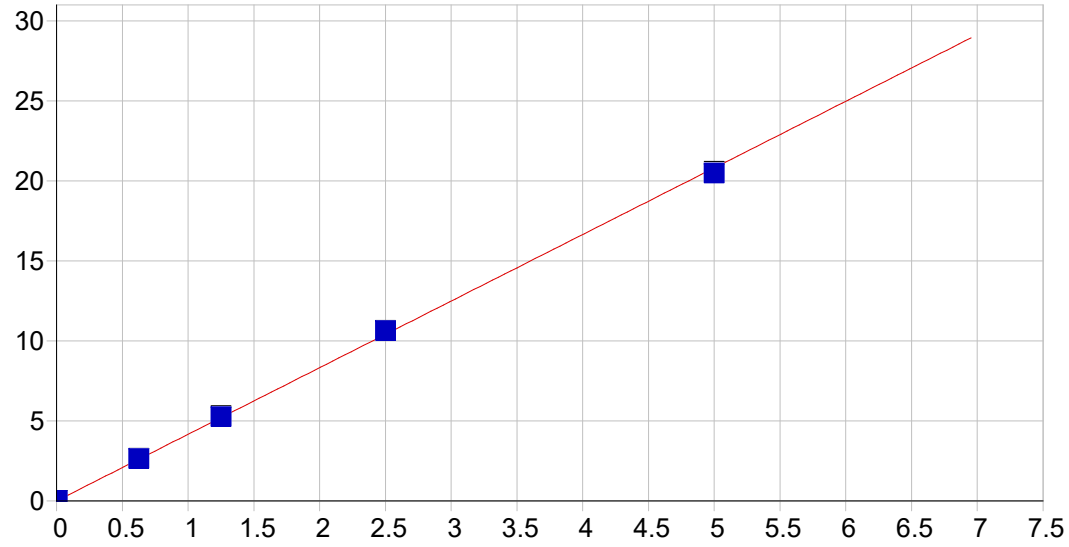
Be 234.861 {144}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003321	Re-Slope:	1.000000
A1 (Gain):	9.029893	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999579	Status:	OK.
Std Error of Est:	0.000980		
Predicted MDL:	0.000099		
Predicted MQL:	0.000329		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00331	.001	1
S1	.00500	.00528	.000	5.61	.05096	.001	1
S2	.12500	.13281	.008	6.25	1.1974	.008	1
S3	.25000	.26016	.010	4.06	2.3422	.017	1
S4	.50000	.50592	.006	1.18	4.5510	.019	1
S5	1.0000	.97583	-.024	-2.42	8.7735	.086	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



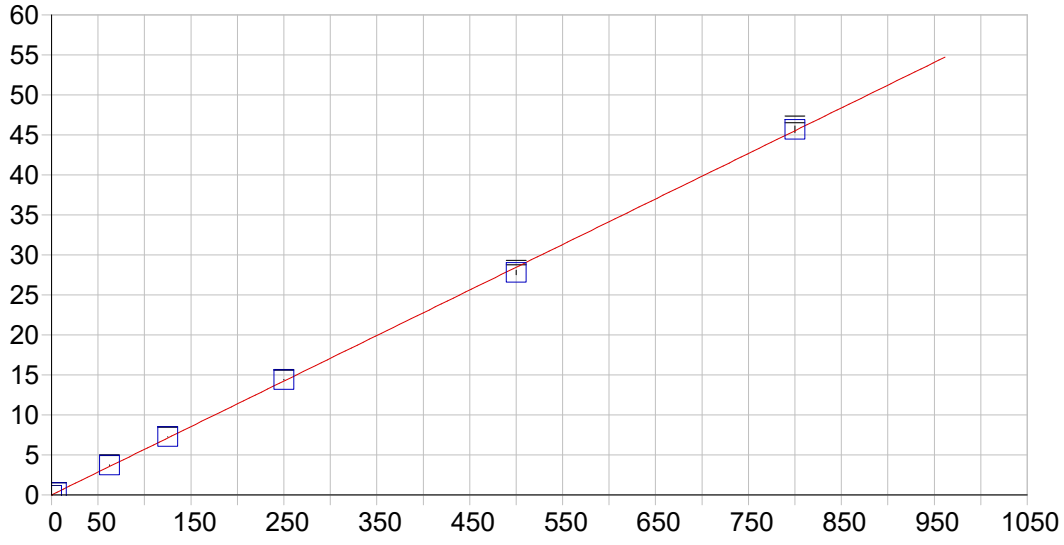
Cd 214.438 {457}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000305	Re-Slope:	1.000000
A1 (Gain):	4.162739	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000596		
Predicted MDL:	0.000072		
Predicted MQL:	0.000240		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00030	.000	1
S1	.00500	.00494	-.000	-1.16	.02095	.000	1
S2	.62500	.63565	.011	1.70	2.6503	.006	1
S3	1.2500	1.2644	.014	1.15	5.2715	.045	1
S4	2.5000	2.5537	.054	2.15	10.647	.016	1
S5	5.0000	4.9213	-.079	-1.57	20.518	.076	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



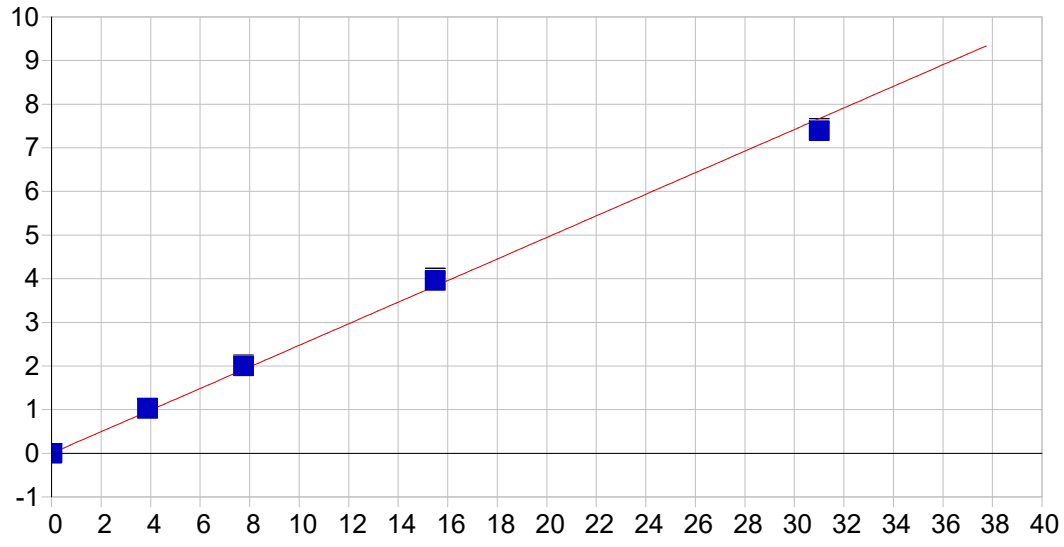
Ca 373.690 { 90}

Date of Fit:	01/20/2025 13:13:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002347	Re-Slope:	1.000000
A1 (Gain):	0.056906	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.003409		
Predicted MDL:	0.025516		
Predicted MQL:	0.085053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00051	-.001	.000	.00232	.001	1
S1	5.0000	5.2177	.218	4.35	.29926	.002	1
S2	62.500	65.253	2.75	4.41	3.7156	.029	1
S3	125.00	127.69	2.69	2.16	7.2689	.022	1
S4	250.00	253.20	3.20	1.28	14.411	.034	1
S5	500.00	488.31	-11.7	-2.34	27.790	.277	1
S6	800.00	802.82	2.82	.353	45.688	.419	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



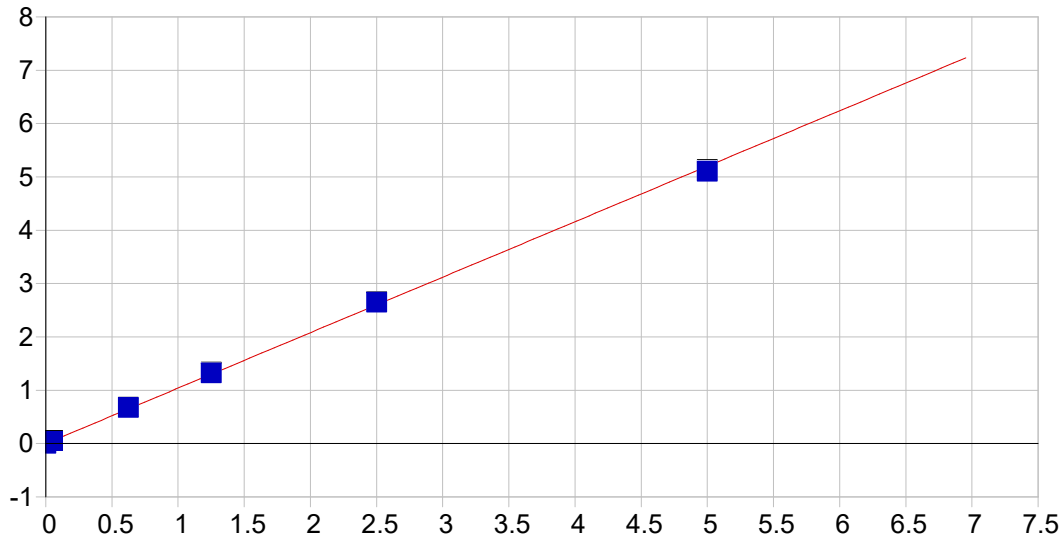
Cr 267.716 {126}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000048	Re-Slope:	1.000000
A1 (Gain):	0.247304	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999213	Status:	OK.
Std Error of Est:	0.000290		
Predicted MDL:	0.000750		
Predicted MQL:	0.002501		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00005	.000	1
S1	.01000	.01019	.000	1.91	.00257	.000	1
S2	3.8750	4.1467	.272	7.01	1.0263	.004	1
S3	7.7500	8.0969	.347	4.48	2.0039	.018	1
S4	15.500	16.005	.505	3.26	3.9611	.052	1
S5	31.000	29.876	-1.12	-3.63	7.3945	.049	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



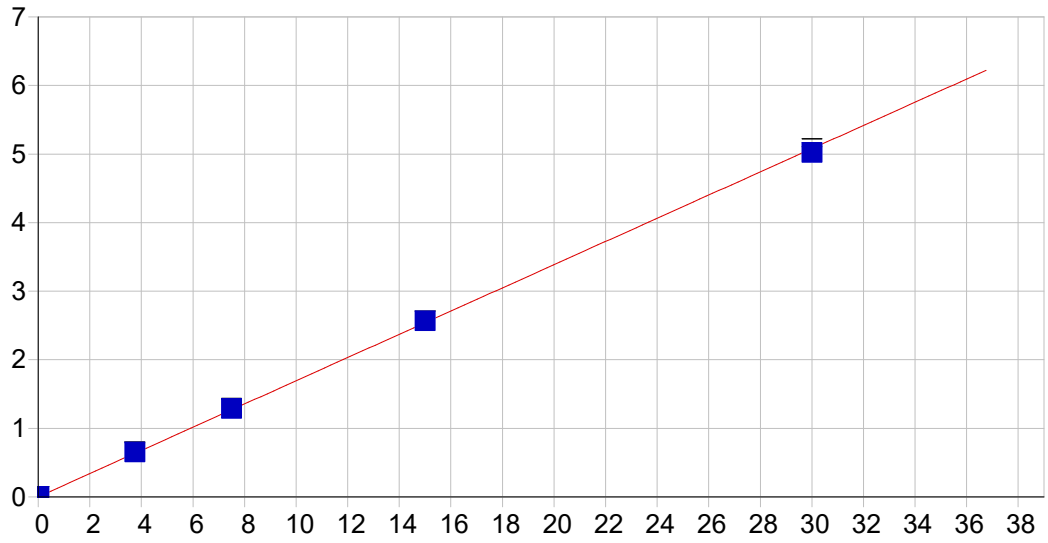
Co 228.616 {448}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000090	Re-Slope:	1.000000
A1 (Gain):	1.040005	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999794	Status:	OK.
Std Error of Est:	0.000562		
Predicted MDL:	0.000301		
Predicted MQL:	0.001004		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00009	.000	1
S1	.05000	.05070	.001	1.39	.05280	.001	1
S2	.62500	.64961	.025	3.94	.67761	.002	1
S3	1.2500	1.2731	.023	1.85	1.3282	.011	1
S4	2.5000	2.5442	.044	1.77	2.6543	.004	1
S5	5.0000	4.9074	-.093	-1.85	5.1204	.017	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



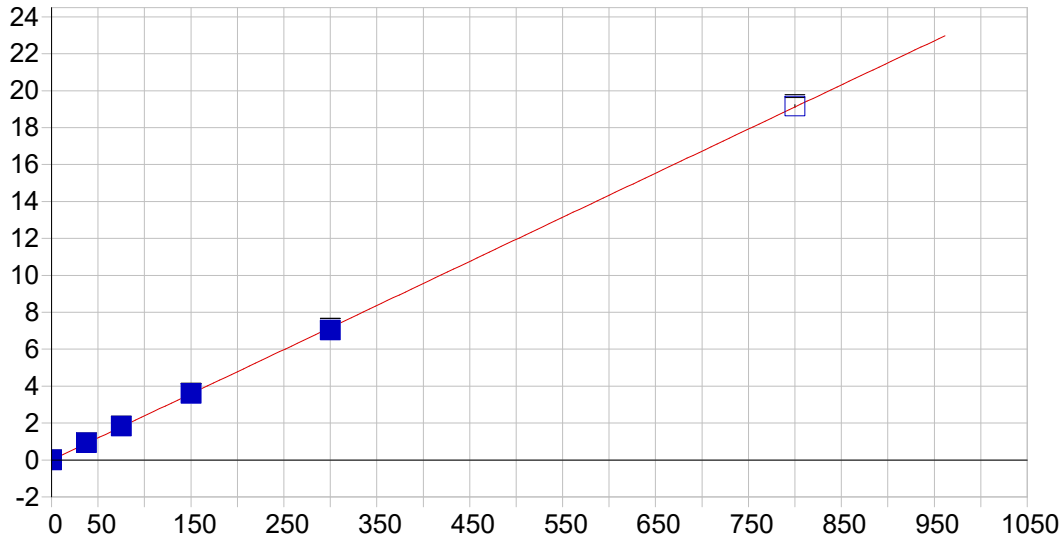
Cu 324.754 {104}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001943	Re-Slope:	1.000000
A1 (Gain):	0.169228	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.005820		
Predicted MQL:	0.019400		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00194	.000	1
S1	.02500	.03143	.006	25.7	.00726	.000	1
S2	3.7500	3.8371	.087	2.32	.65121	.007	1
S3	7.5000	7.5904	.090	1.21	1.2863	.005	1
S4	15.000	15.160	.160	1.06	2.5671	.002	1
S5	30.000	29.656	-.344	-1.15	5.0201	.057	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



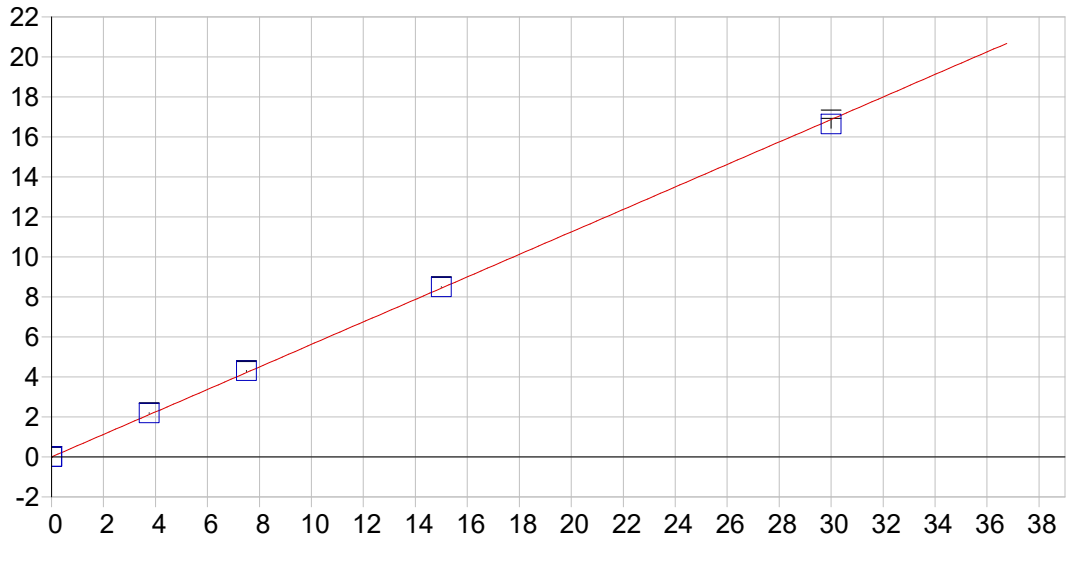
Fe 259.837 {130}

Date of Fit:	01/20/2025 13:13:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000282	Re-Slope:	1.000000
A1 (Gain):	0.023897	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000121		
Predicted MDL:	0.022257		
Predicted MQL:	0.074191		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	-.00028	.000	1
S1	.10000	.12234	.022	22.3	.00264	.001	1
S2	37.500	38.782	1.28	3.42	.92671	.010	1
S3	75.000	76.370	1.37	1.83	1.8252	.007	1
S4	150.00	150.64	.640	.427	3.6004	.011	1
S5	300.00	294.52	-5.48	-1.83	7.0396	.092	1
S6	800.00	802.16	2.16	.270	19.169	.085	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



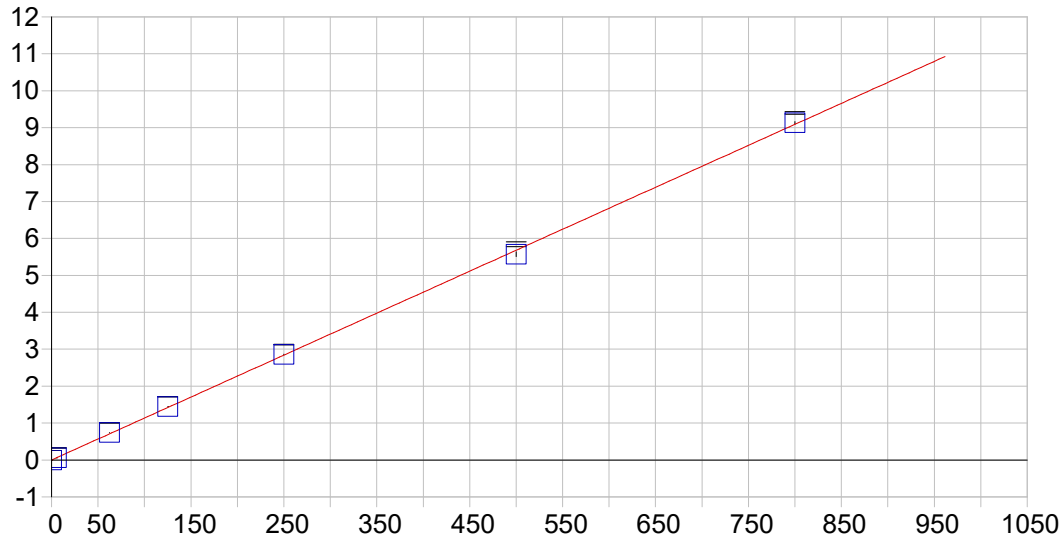
Mn 257.610 {131}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000328	Re-Slope:	1.000000
A1 (Gain):	0.562396	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.000332		
Predicted MDL:	0.000855		
Predicted MQL:	0.002851		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00033	.001	1
S1	.01500	.01447	-.001	-3.51	.00847	.000	1
S2	3.7500	3.9023	.152	4.06	2.1950	.017	1
S3	7.5000	7.6434	.143	1.91	4.2989	.022	1
S4	15.000	15.117	.117	.783	8.5023	.016	1
S5	30.000	29.587	-.413	-1.38	16.640	.201	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



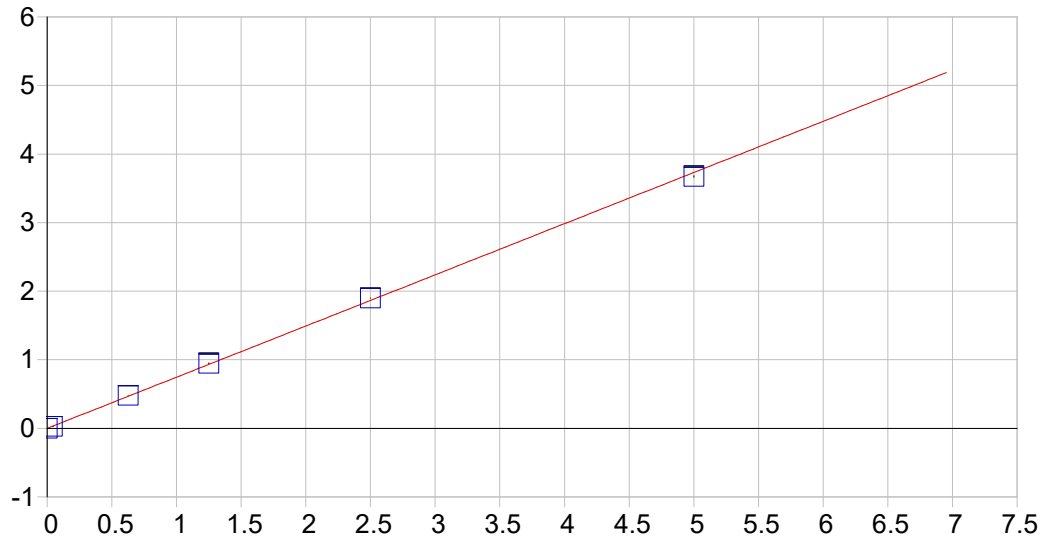
Mg 279.079 {121}

Date of Fit:	01/20/2025 13:13:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000497	Re-Slope:	1.000000
A1 (Gain):	0.011364	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000561		
Predicted MDL:	0.046957		
Predicted MQL:	0.156522		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00035	-.000	.000	-.00050	.000	1
S1	5.0000	5.1072	.107	2.14	.05754	.001	1
S2	62.500	65.009	2.51	4.01	.73824	.006	1
S3	125.00	127.23	2.23	1.78	1.4453	.002	1
S4	250.00	251.16	1.16	.466	2.8537	.008	1
S5	500.00	490.40	-9.60	-1.92	5.5722	.067	1
S6	800.00	803.59	3.59	.449	9.1313	.034	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



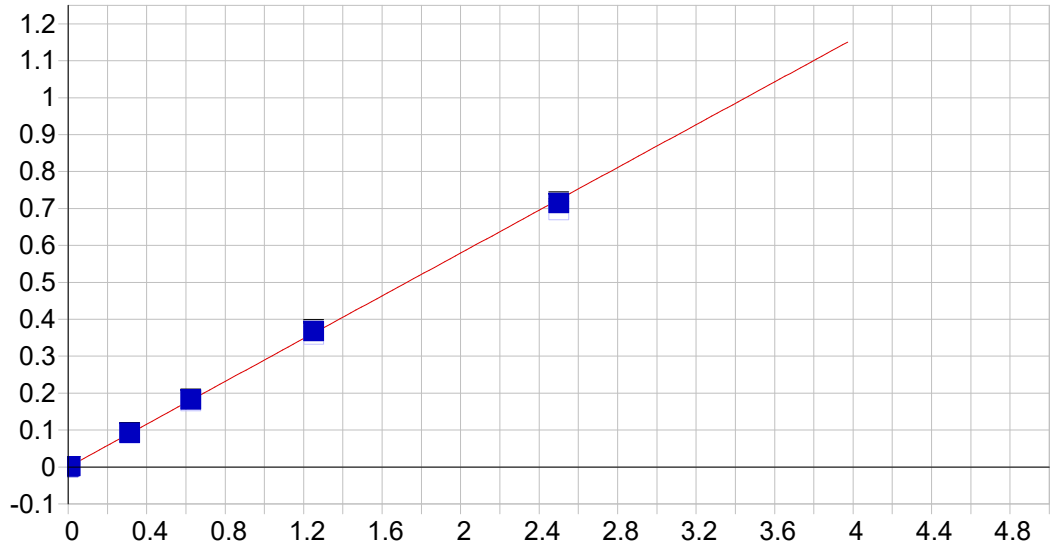
Ni 231.604 {446}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000336	Re-Slope:	1.000000
A1 (Gain):	0.746235	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000306		
Predicted MDL:	0.000464		
Predicted MQL:	0.001547		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00034	.000	1
S1	.04000	.03854	-.001	-3.66	.02842	.000	1
S2	.62500	.64040	.015	2.46	.47755	.002	1
S3	1.2500	1.2681	.018	1.45	.94596	.008	1
S4	2.5000	2.5468	.047	1.87	1.9002	.002	1
S5	5.0000	4.9212	-.079	-1.58	3.6720	.012	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



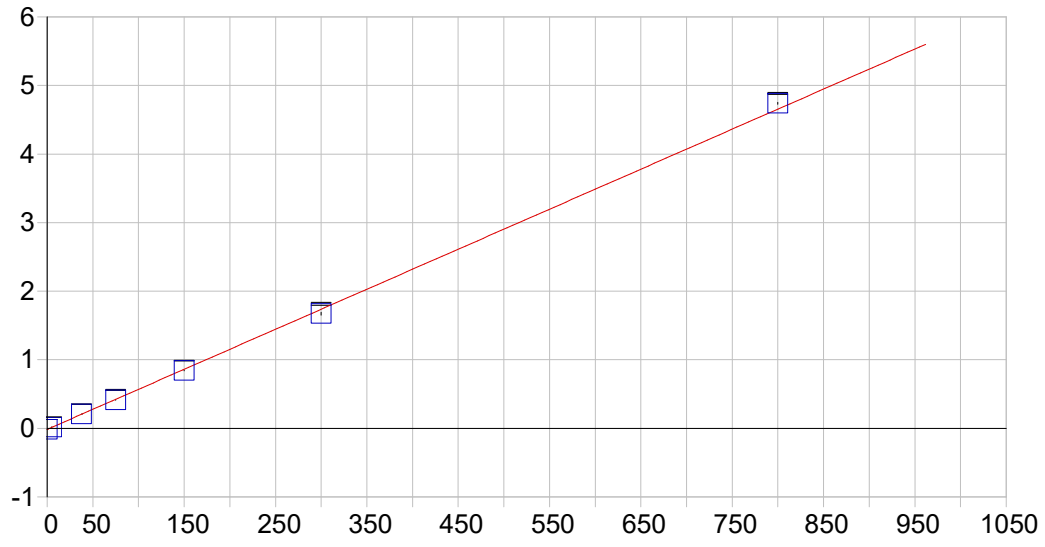
Ag 328.068 {103}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000029	Re-Slope:	1.000000
A1 (Gain):	0.289619	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999872	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.000927		
Predicted MQL:	0.003090		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.01000	.00884	-.001	-11.6	.00258	.000	1
S2	.31250	.31980	.007	2.33	.09026	.000	1
S3	.62500	.63122	.006	.995	.17806	.002	1
S4	1.2500	1.2706	.021	1.65	.35847	.004	1
S5	2.5000	2.4670	-.033	-1.32	.69541	.004	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



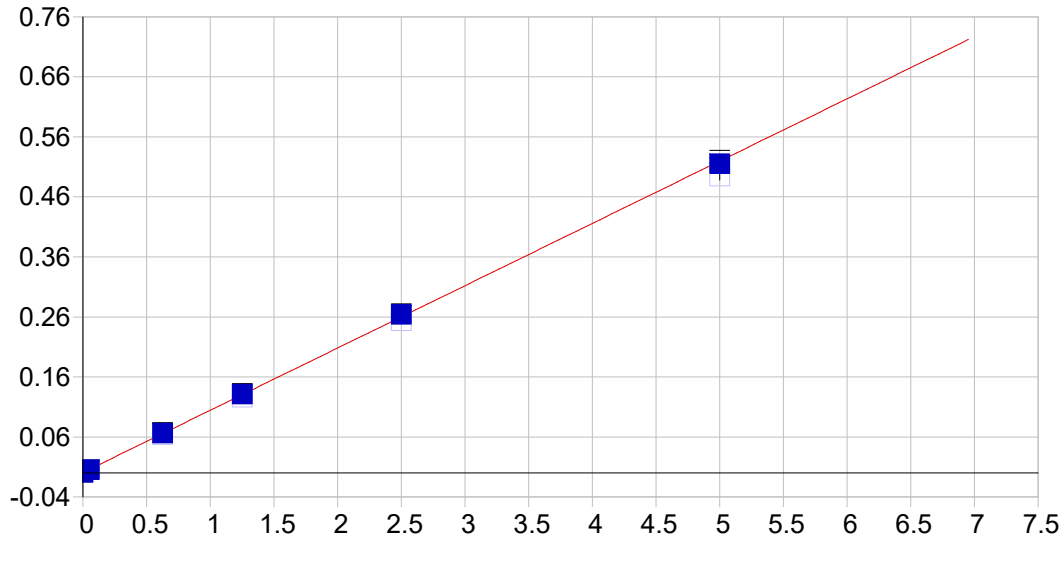
Na 818.326 { 41}

Date of Fit:	01/20/2025 13:13:38	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.014579	Re-Slope:	1.000000
A1 (Gain):	0.005837	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999699	Status:	OK.
Std Error of Est:	0.000443		
Predicted MDL:	0.674327		
Predicted MQL:	2.247757		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00021	-.000	.000	-.01458	.003	1
S1	5.0000	5.4308	.431	8.62	.01712	.003	1
S2	37.500	38.131	.631	1.68	.20800	.001	1
S3	75.000	73.520	-1.48	-1.97	.41457	.006	1
S4	150.00	146.70	-3.30	-2.20	.84173	.004	1
S5	300.00	289.00	-11.0	-3.67	1.6723	.022	1
S6	800.00	814.72	14.7	1.84	4.7410	.014	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



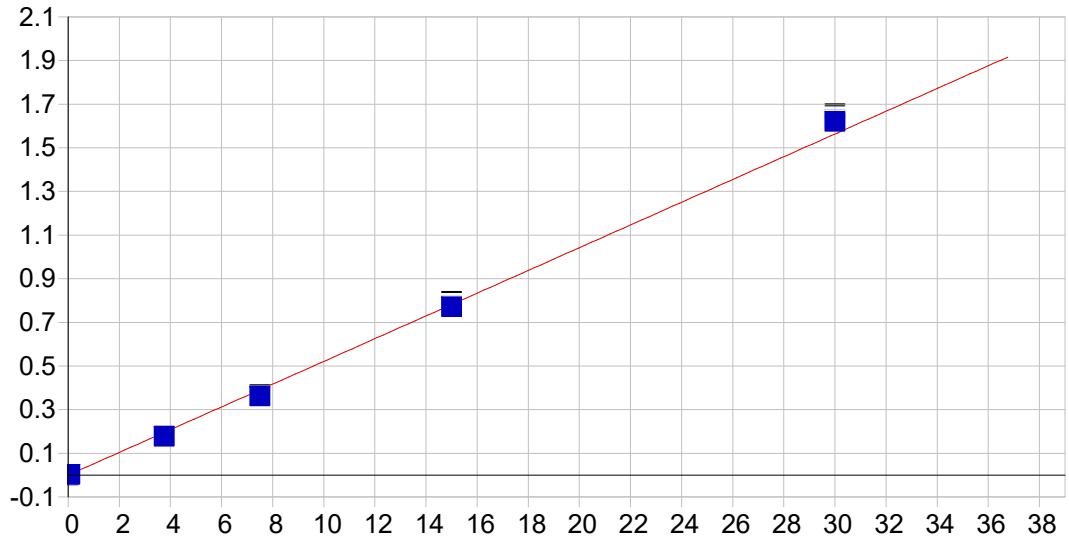
V 292.402 {115}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000545	Re-Slope:	1.000000
A1 (Gain):	0.103819	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999904	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.006443		
Predicted MQL:	0.021477		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00054	.001	1
S1	.05000	.04429	-.006	-11.4	.00513	.000	1
S2	.62500	.63052	.006	.883	.06340	.001	1
S3	1.2500	1.2584	.008	.673	.12599	.001	1
S4	2.5000	2.5359	.036	1.44	.25342	.001	1
S5	5.0000	4.9561	-.044	-.879	.49428	.006	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



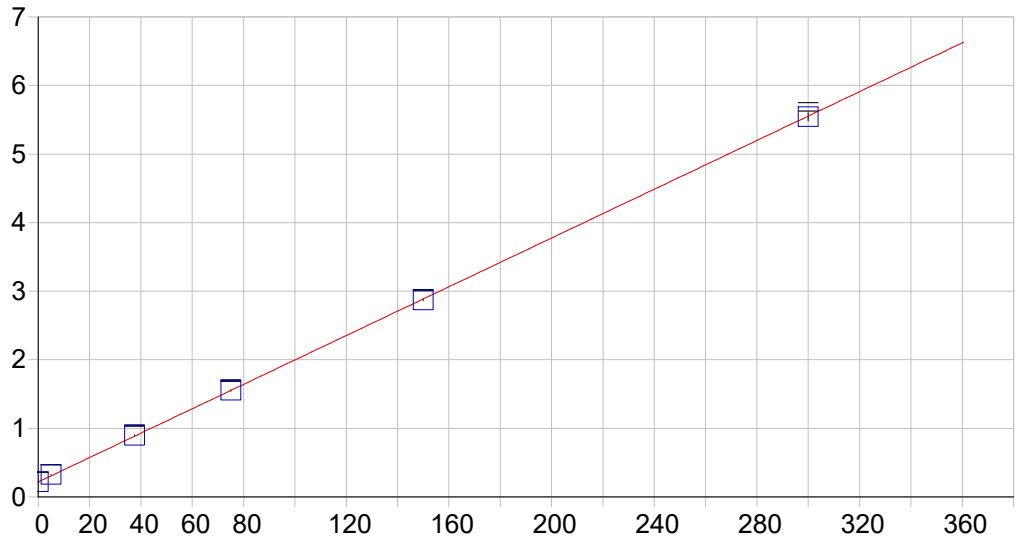
Zn 213.856 {158}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000265	Re-Slope:	1.000000
A1 (Gain):	0.052124	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998961	Status:	OK.
Std Error of Est:	0.000170		
Predicted MDL:	0.005007		
Predicted MQL:	0.016689		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00026	.000	1
S1	.06000	.04957	-.010	-17.4	.00233	.000	1
S2	3.7500	3.4023	-.348	-9.27	.17803	.001	1
S3	7.5000	6.9418	-.558	-7.44	.36348	.005	1
S4	15.000	14.815	-.185	-1.24	.77575	.020	1
S5	30.000	31.102	1.10	3.67	1.6285	.026	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



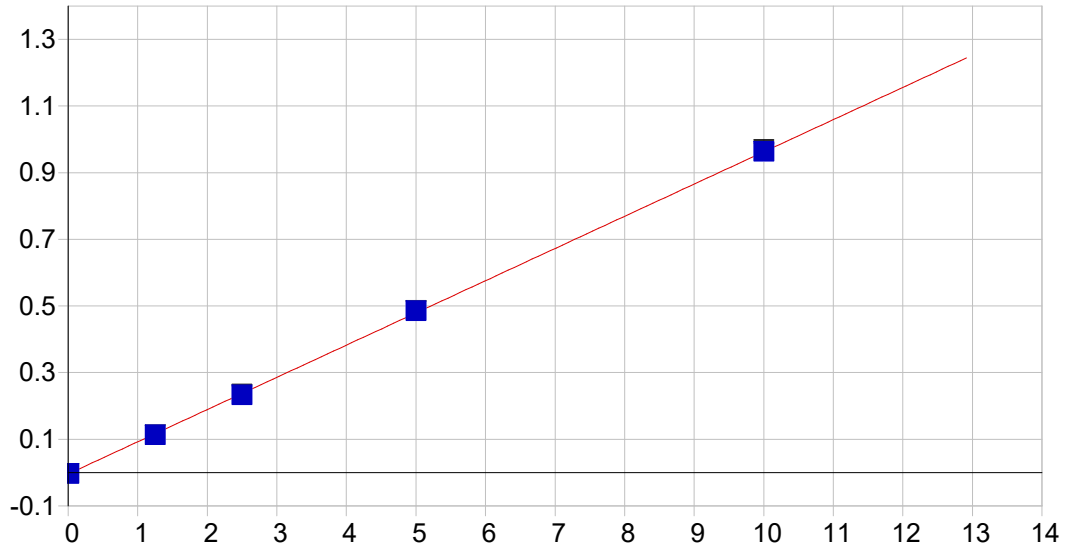
K 769.896 { 44}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.218325	Re-Slope:	1.000000
A1 (Gain):	0.017786	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999816	Status:	OK.
Std Error of Est:	0.000703		
Predicted MDL:	0.159130		
Predicted MQL:	0.530434		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00102	-.001	.000	.21831	.003	1
S1	5.0000	5.9754	.975	19.5	.32460	.002	1
S2	37.500	38.120	.620	1.65	.89634	.008	1
S3	75.000	75.013	.013	.017	1.5525	.011	1
S4	150.00	149.02	-.984	-.656	2.8688	.009	1
S5	300.00	299.38	-.625	-.208	5.5431	.061	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



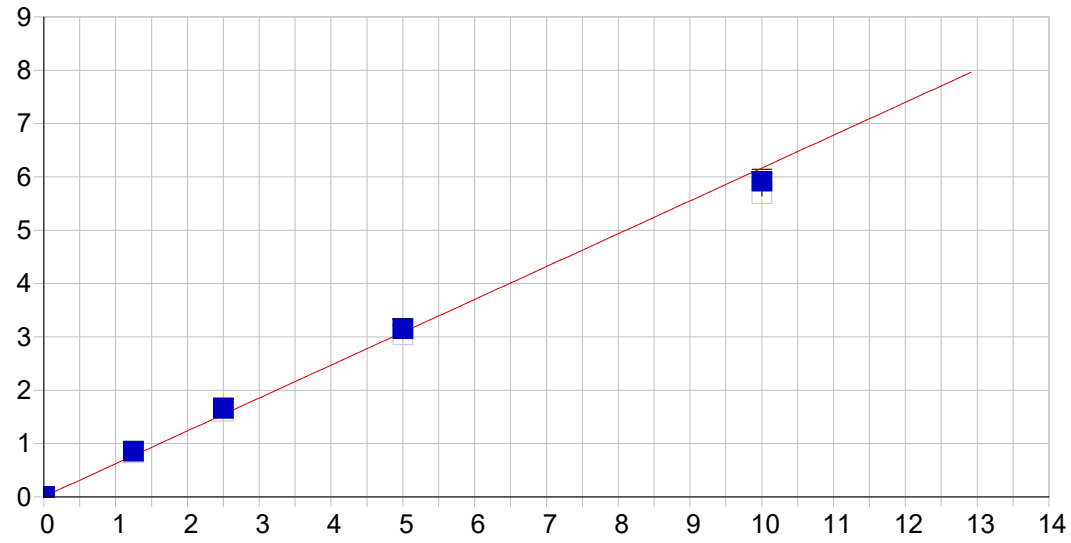
P 177.495 {490}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004158	Re-Slope:	1.000000
A1 (Gain):	0.096666	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.001466		
Predicted MQL:	0.004886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00416	.000	1
S1	.01000	.00870	-.001	-13.0	-.00331	.000	1
S2	1.2500	1.2120	-.038	-3.04	.11282	.000	1
S3	2.5000	2.4532	-.047	-1.87	.23264	.002	1
S4	5.0000	5.0667	.067	1.33	.48492	.001	1
S5	10.000	10.019	.019	.194	.96298	.005	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



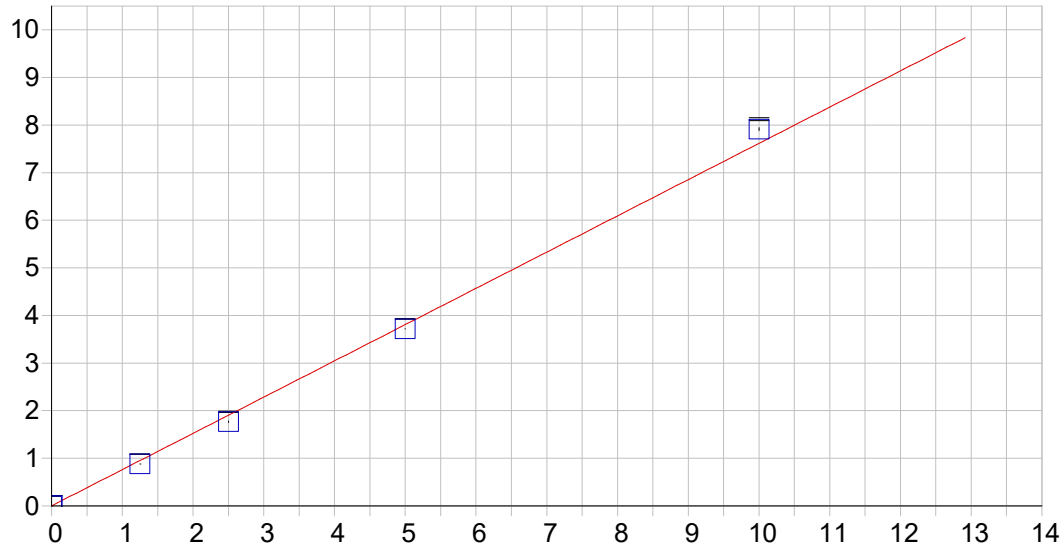
B 249.678 {135}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005849	Re-Slope:	1.000000
A1 (Gain):	0.616067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998440	Status:	OK.
Std Error of Est:	0.000556		
Predicted MDL:	0.001834		
Predicted MQL:	0.006114		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00585	.001	1
S1	.01000	.00015	-.010	-98.5	.00591	.001	1
S2	1.2500	1.3758	.126	10.1	.82415	.002	1
S3	2.5000	2.6825	.183	7.30	1.5999	.009	1
S4	5.0000	5.1062	.106	2.12	3.0345	.007	1
S5	10.000	9.5956	-.404	-4.04	5.6831	.043	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

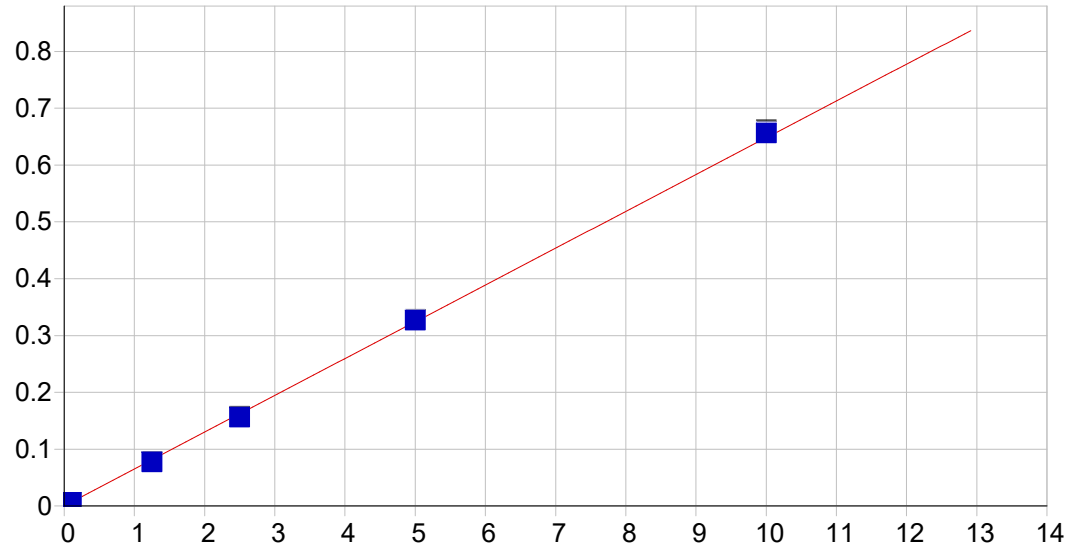


Mo 202.030 {467}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000579	Re-Slope:	1.000000
A1 (Gain):	0.761543	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998987	Status:	OK.
Std Error of Est:	0.000575		
Predicted MDL:	0.000354		
Predicted MQL:	0.001179		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00058	.000	1
S1	.01000	.00902	-.001	-9.83	.00745	.000	1
S2	1.2500	1.1563	-.094	-7.50	.88111	.000	1
S3	2.5000	2.3204	-.180	-7.18	1.7677	.016	1
S4	5.0000	4.8831	-.117	-2.34	3.7193	.004	1
S5	10.000	10.391	.391	3.91	7.9140	.032	1



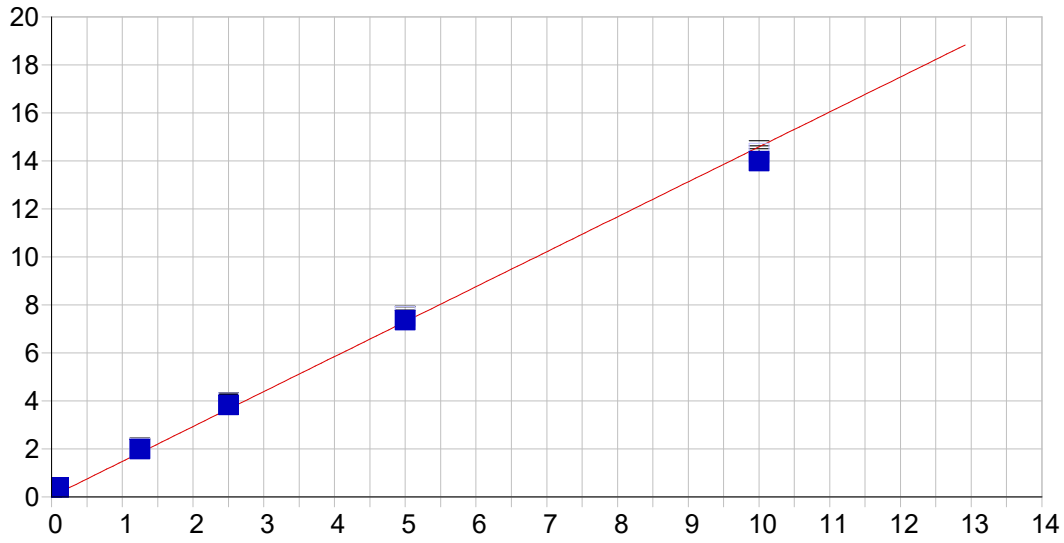
S 182.034 {485}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000296	Re-Slope:	1.000000
A1 (Gain):	0.064779	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999735	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.002567		
Predicted MQL:	0.008557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00030	.000	1
S1	.10000	.08813	-.012	-11.9	.00600	.000	1
S2	1.2500	1.1886	-.061	-4.91	.07756	.000	1
S3	2.5000	2.4046	-.095	-3.82	.15659	.001	1
S4	5.0000	5.0375	.038	.750	.32767	.001	1
S5	10.000	10.131	.131	1.31	.65866	.003	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

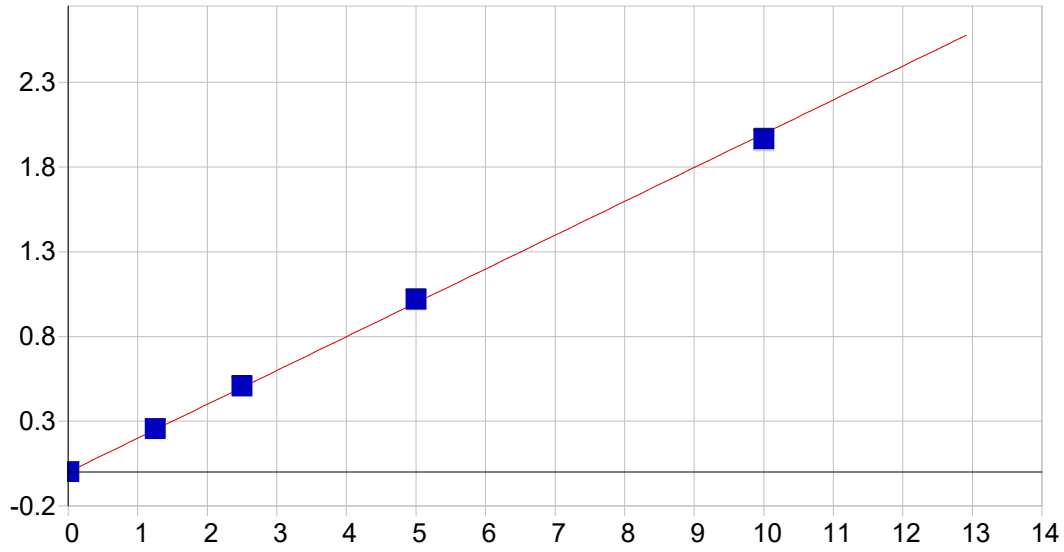


Si 251.611 {134}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.020217	Re-Slope:	1.000000
A1 (Gain):	1.456410	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993090	Status:	OK.
Std Error of Est:	0.009353		
Predicted MDL:	0.000769		
Predicted MQL:	0.002563		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00017	-.000	.000	.01998	.002	1
S1	.10000	.25613	.156	156.	.39531	.003	1
S2	1.2500	1.3525	.103	8.20	2.0314	.006	1
S3	2.5000	2.6175	.118	4.70	3.9151	.020	1
S4	5.0000	5.0373	.037	.747	7.5220	.013	1
S5	10.000	9.5878	-.412	-4.12	14.315	.107	1

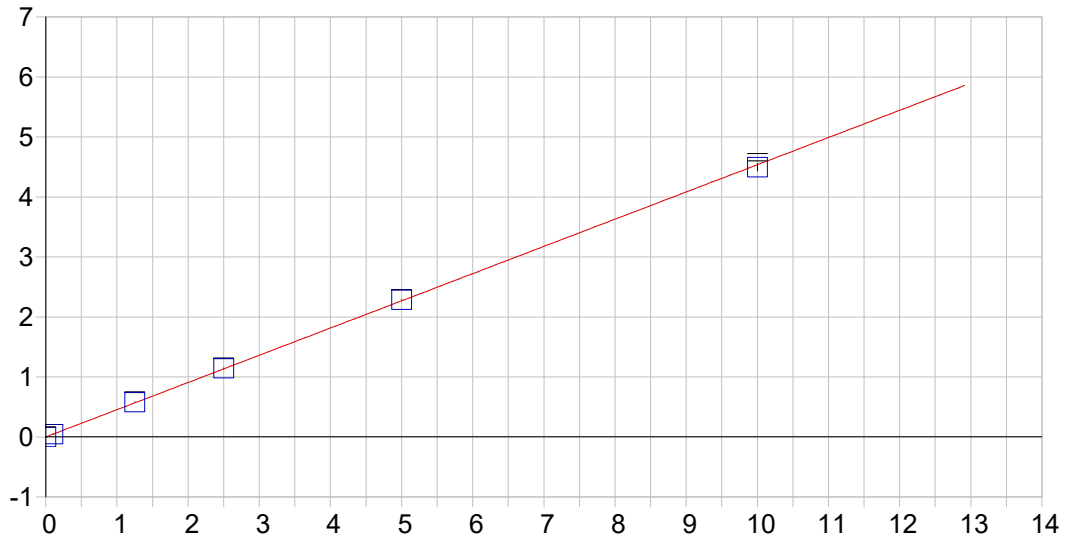


Sn 189.989 {478}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.199635	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.000773		
Predicted MQL:	0.002578		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00012	.000	1
S1	.00700	.00616	-.001	-11.9	.00129	.000	1
S2	1.2500	1.2755	.026	2.04	.25351	.000	1
S3	2.5000	2.5364	.036	1.46	.50396	.005	1
S4	5.0000	5.1023	.102	2.05	1.0137	.002	1
S5	10.000	9.8366	-.163	-1.63	1.9538	.007	1



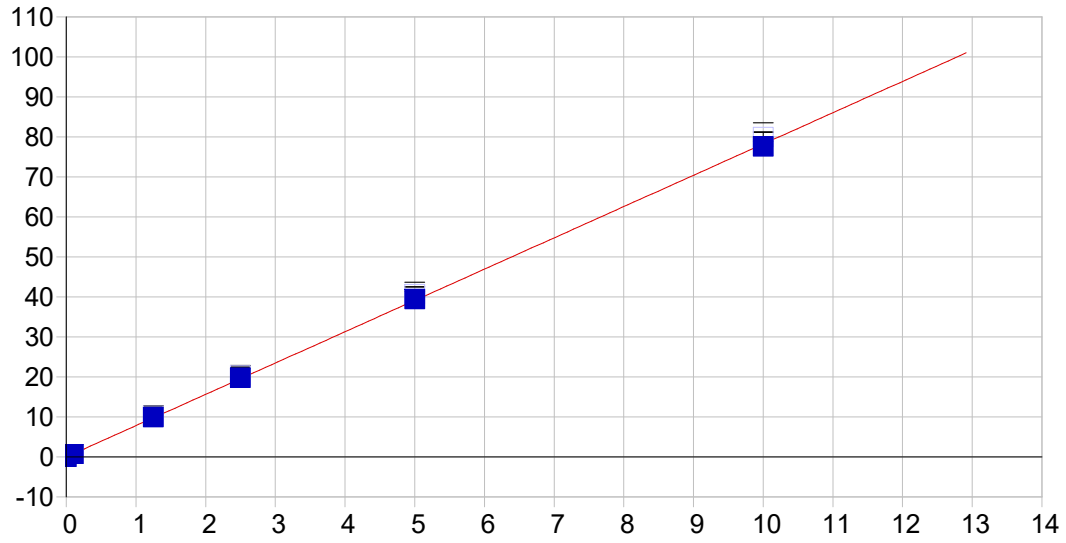
Ti 336.121 {100}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000388	Re-Slope:	1.000000
A1 (Gain):	0.453637	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000234		
Predicted MDL:	0.002395		
Predicted MQL:	0.007984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00039	.001	1
S1	.10000	.10224	.002	2.24	.04599	.001	1
S2	1.2500	1.2707	.021	1.66	.57605	.005	1
S3	2.5000	2.5229	.023	.917	1.1441	.004	1
S4	5.0000	5.0435	.044	.871	2.2875	.004	1
S5	10.000	9.9106	-.089	-.894	4.4954	.062	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

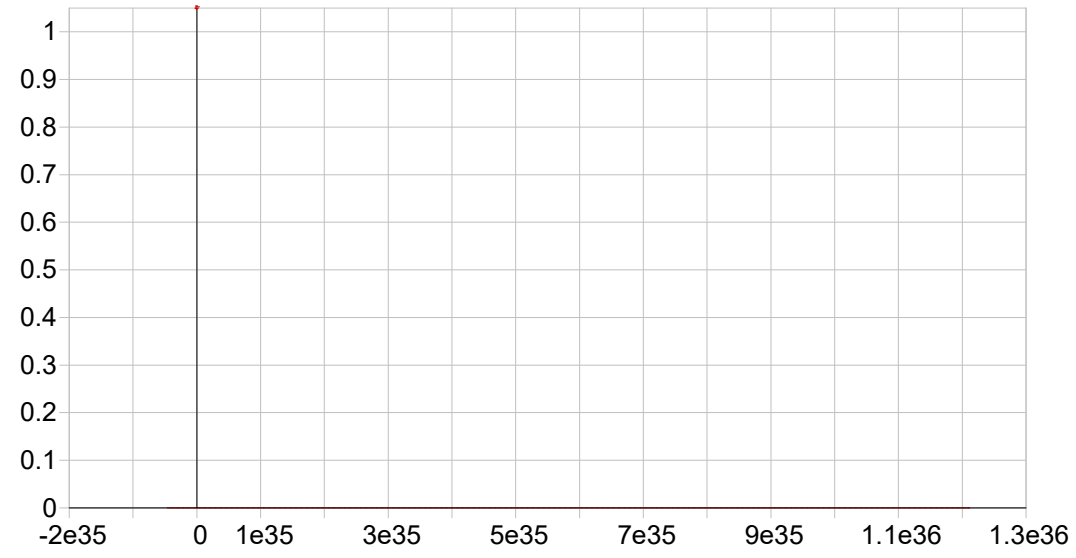


Sr 407.771 { 83}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004362	Re-Slope:	1.000000
A1 (Gain):	7.822958	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.004226		
Predicted MDL:	0.000210		
Predicted MQL:	0.000700		

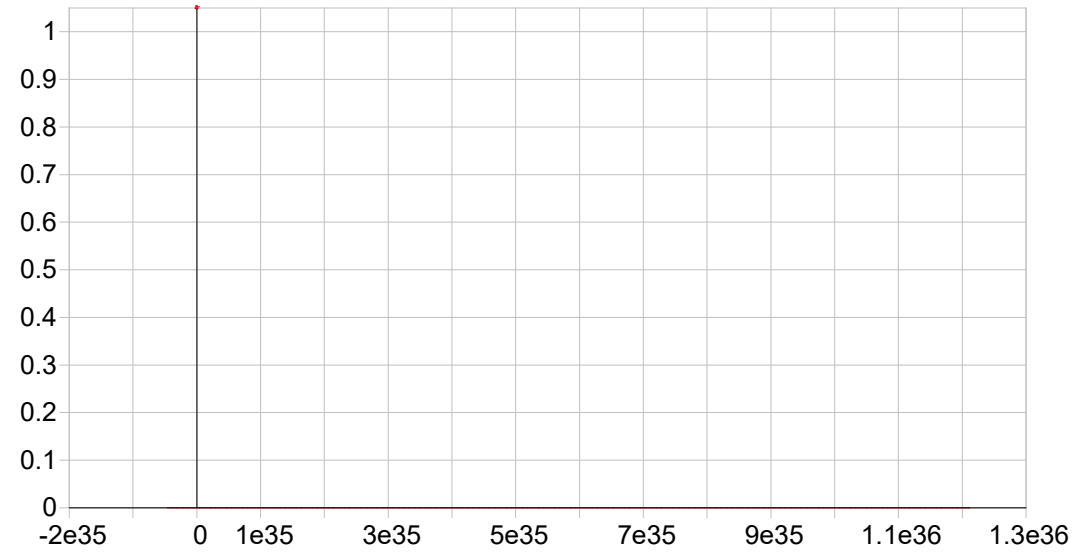
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00434	.002	1
S1	.10000	.09479	-.005	-5.21	.73798	.006	1
S2	1.2500	1.2700	.020	1.60	10.224	.086	1
S3	2.5000	2.5254	.025	1.02	20.339	.094	1
S4	5.0000	5.0439	.044	.879	40.628	.606	1
S5	10.000	9.9157	-.084	-.843	79.912	1.10	1



Y 224.306 {450}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



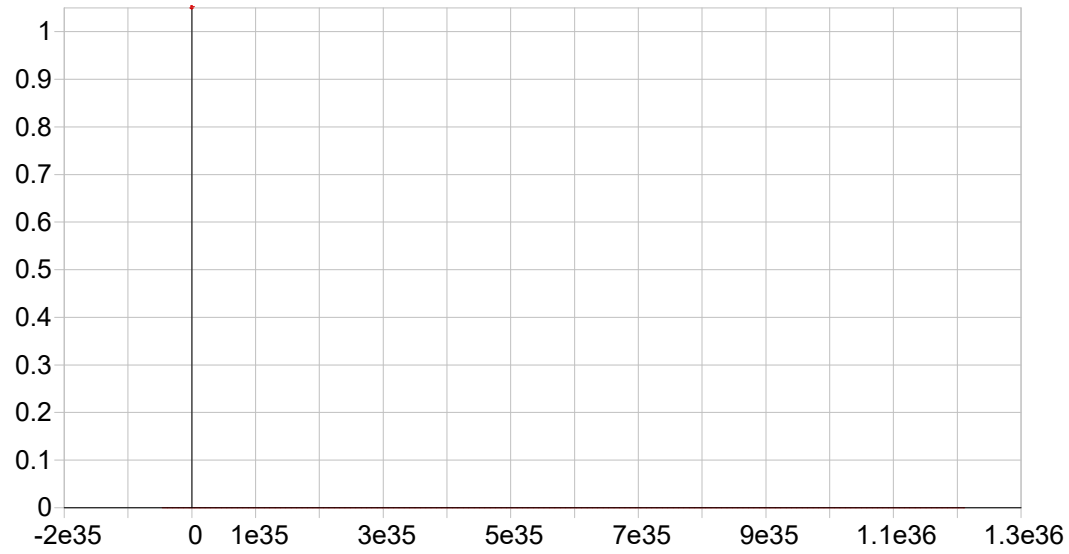
Y 360.073 { 94}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

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On:1/21/2025 6:55:20 AM
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A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

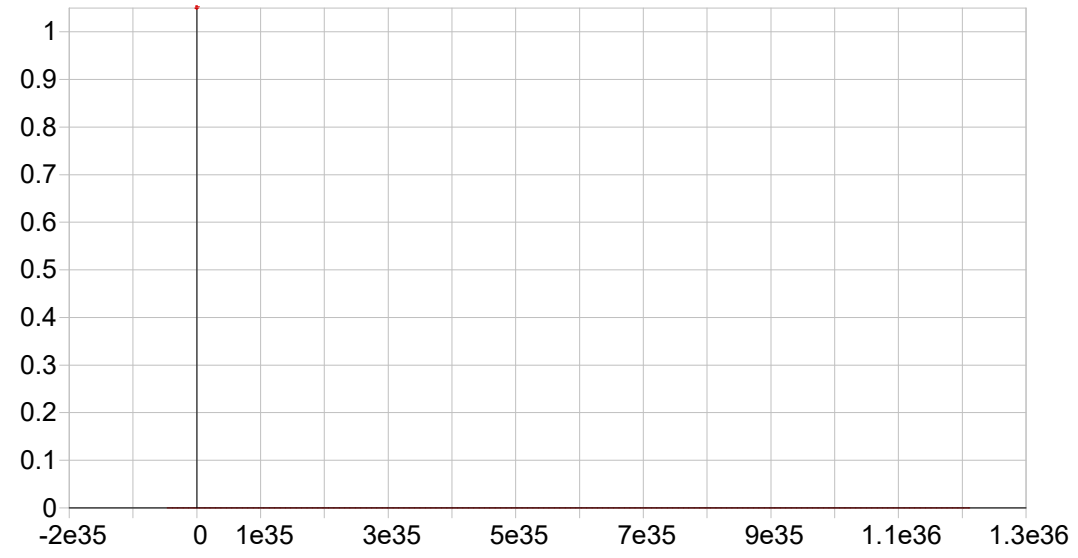


Y 371.030 { 91}*

Date of Fit:	<not fit>		Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):		0.000000		Re-Slope:	1.000000	
A1 (Gain):		0.000000		Y-int:	0.000000	
A2 (Curvature):		0.000000				
n (Exponent):		1.000000				
Correlation:		0.000000		Status:	Warning	Zero Gain
Std Error of Est:		0.000000				
Predicted MDL:		n/a				
Predicted MQL:		n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

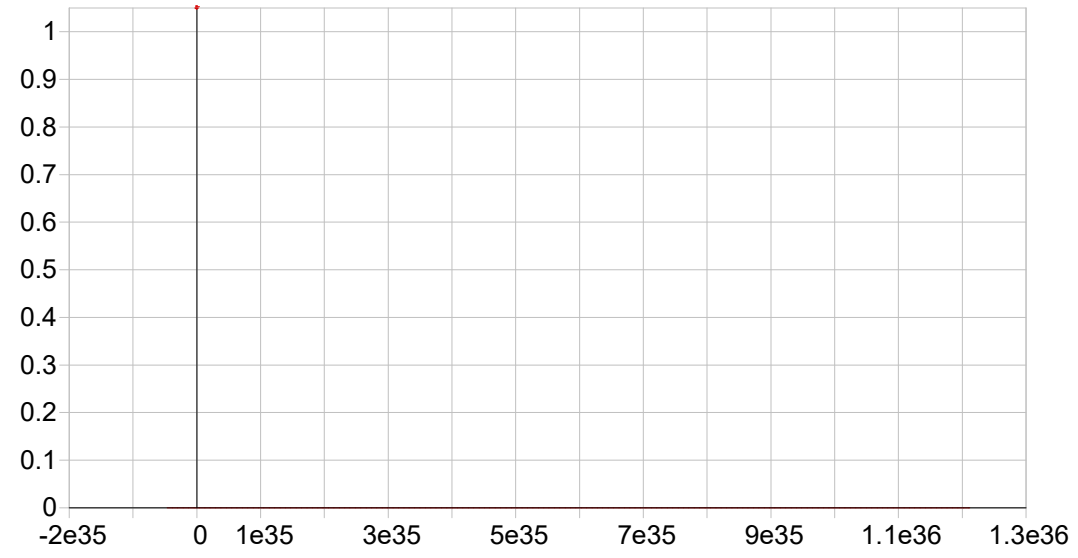
Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



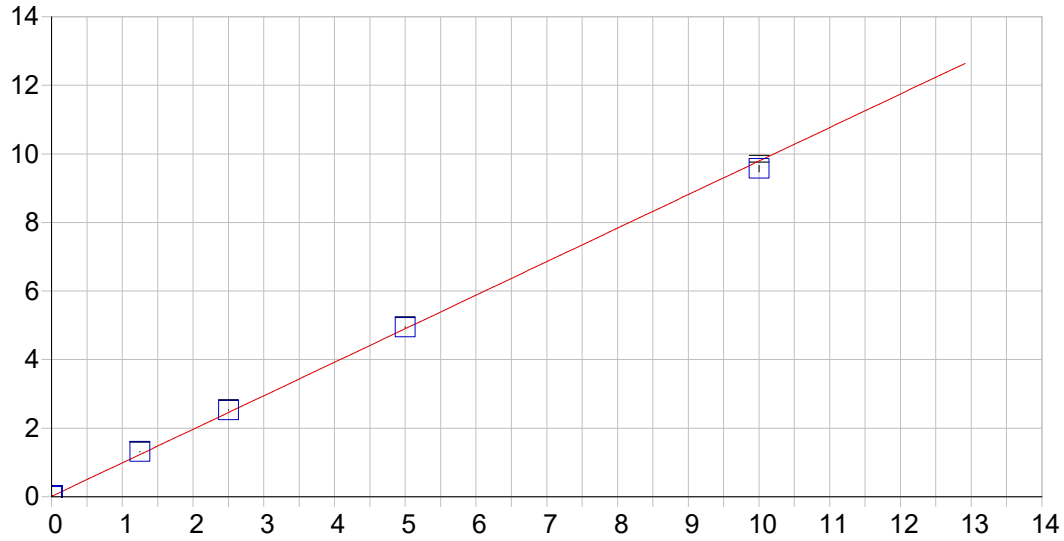
In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Li 670.784 { 50}

Date of Fit:	01/20/2025 13:09:23	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.011126		Re-Slope:	1.000000	
A1 (Gain):	0.977948		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.999496	Status:	OK.		
Std Error of Est:	0.000638				
Predicted MDL:	0.003571				
Predicted MQL:	0.011903				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01112	.003	1
S5	10.000	9.7773	-.223	-2.23	9.5728	.101	1
S4	5.0000	5.0507	.051	1.01	4.9504	.009	1
S3	2.5000	2.5782	.078	3.13	2.5325	.009	1
S2	1.2500	1.3350	.085	6.80	1.3167	.012	1
S1	.01500	.02384	.009	59.0	.03444	.003	1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/20/2025 12:45:45 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.40586	.00007	.00025	.00005	.00076	-.00061	.19497	.00331
Stddev	.08440	.00011	.00035	.00012	.00020	.00071	.00267	.00064
%RSD	20.795	156.03	137.10	258.15	26.331	116.78	1.3711	19.323
#1	-.31129	.00016	-.00008	-.00006	.00053	-.00017	.19286	.00385
#2	-.47351	-.00005	.00061	.00002	.00092	-.00144	.19798	.00348
#3	-.43280	.00011	.00023	.00017	.00083	-.00023	.19407	.00261

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00030	.00232	.00005	-.00009	.00194	-.00028	.00033	-.00050
Stddev	.00011	.00065	.00020	.00031	.00026	.00024	.00053	.00042
%RSD	36.854	27.963	408.37	335.09	13.448	84.058	162.16	84.556
#1	.00027	.00168	-.00011	-.00022	.00224	-.00016	.00079	-.00099
#2	.00043	.00231	.00027	-.00032	.00177	-.00056	-.00025	-.00032
#3	.00021	.00297	-.00001	.00026	.00182	-.00013	.00045	-.00020

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00034	.00003	-.01458	.00054	-.00026	.21831	-.00416	.00585
Stddev	.00006	.00022	.00259	.00103	.00026	.00320	.00017	.00057
%RSD	18.425	749.79	17.739	188.99	99.098	1.4681	4.0333	9.7264
#1	-.00029	-.00020	-.01443	.00032	-.00054	.21649	-.00421	.00523
#2	-.00041	.00004	-.01207	.00167	-.00002	.21643	-.00429	.00634
#3	-.00031	.00024	-.01724	-.00036	-.00023	.22201	-.00397	.00599

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00058	.00030	.01998	.00012	-.00039	-.00434	.01112
Stddev	.00023	.00008	.00176	.00012	.00050	.00152	.00310
%RSD	40.079	26.673	8.7981	101.95	128.75	35.064	27.898
#1	.00084	.00024	.02059	.00018	-.00014	-.00422	.01234
#2	.00049	.00039	.01799	.00019	-.00006	-.00289	.00759
#3	.00040	.00026	.02134	-.00002	-.00097	-.00592	.01342

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/20/2025 12:45:45 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3793.7	38216.	3934.5	3604.5	4179.0
Stddev	42.8	499.	14.0	42.8	52.5
%RSD	1.1288	1.3053	.35542	1.1874	1.2559
#1	3818.0	38090.	3943.5	3608.1	4202.6
#2	3818.9	38766.	3941.7	3645.5	4215.6
#3	3744.2	37792.	3918.4	3560.1	4118.9

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/20/2025 12:49:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6986	.00258	.00281	.00321	.00770	.01447	.74391	.05096
Stddev	.4479	.00017	.00082	.00012	.00007	.00123	.00438	.00081
%RSD	16.598	6.5105	29.088	3.8310	.92090	8.4739	.58903	1.5804
#1	2.3013	.00274	.00221	.00334	.00778	.01579	.74019	.05003
#2	3.1840	.00241	.00249	.00318	.00767	.01336	.74279	.05140
#3	2.6105	.00258	.00374	.00310	.00765	.01427	.74874	.05145

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02095	.29926	.00257	.05280	.00726	.00264	.00847	.05754
Stddev	.00036	.00205	.00007	.00080	.00044	.00085	.00044	.00091
%RSD	1.7133	.68569	2.7243	1.5151	6.0211	32.135	5.1785	1.5759
#1	.02121	.29900	.00253	.05350	.00694	.00361	.00897	.05684
#2	.02111	.30143	.00253	.05297	.00707	.00203	.00822	.05721
#3	.02054	.29735	.00265	.05193	.00775	.00228	.00821	.05856

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02842	.00258	.01712	.00513	.00233	.32460	-.00331	.00591
Stddev	.00019	.00008	.00291	.00032	.00027	.00153	.00008	.00078
%RSD	.65418	2.9219	17.001	6.2299	11.718	.47088	2.5499	13.130
#1	.02839	.00257	.01415	.00497	.00263	.32492	-.00339	.00664
#2	.02862	.00251	.01724	.00550	.00210	.32595	-.00322	.00598
#3	.02826	.00266	.01997	.00492	.00226	.32294	-.00332	.00510

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00745	.00600	.39531	.00129	.04599	.73798	.03444
Stddev	.00028	.00017	.00294	.00007	.00115	.00580	.00305
%RSD	3.8269	2.7874	.74295	5.2697	2.5079	.78569	8.8570
#1	.00744	.00617	.39317	.00137	.04552	.73470	.03401
#2	.00716	.00601	.39866	.00125	.04731	.73456	.03163
#3	.00773	.00583	.39410	.00125	.04515	.74467	.03769

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/20/2025 12:49:50 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.4	38145.	3983.0	3570.8	4088.9
Stddev	9.3	227.	20.5	7.6	17.4
%RSD	.24548	.59528	.51520	.21350	.42648
#1	3776.4	38040.	4006.5	3566.0	4081.3
#2	3770.3	38405.	3974.3	3579.6	4076.6
#3	3788.5	37989.	3968.3	3566.8	4108.9

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/20/2025 12:53:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	312.07	.13130	1.6377	.12095	.16971	2.5408	6.9551	1.1974
Stddev	1.06	.00039	.0029	.00007	.00020	.0191	.0592	.0080
%RSD	.34034	.30063	.17530	.05507	.11621	.75340	.85183	.66383
#1	311.59	.13135	1.6410	.12099	.16957	2.5482	6.9694	1.1981
#2	313.29	.13167	1.6360	.12087	.16962	2.5552	7.0060	1.2049
#3	311.34	.13088	1.6361	.12098	.16994	2.5191	6.8901	1.1891

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.6503	3.7156	1.0263	.67761	.65121	.92671	2.1950	.73824
Stddev	.0058	.0286	.0037	.00219	.00714	.00951	.0171	.00574
%RSD	.21920	.77051	.35522	.32360	1.0960	1.0265	.77943	.77708
#1	2.6566	3.7261	1.0285	.67971	.65218	.93169	2.2038	.74132
#2	2.6451	3.7376	1.0283	.67533	.65781	.93271	2.2059	.74178
#3	2.6493	3.6832	1.0221	.67778	.64364	.91575	2.1753	.73162

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.47755	.09026	.20800	.06340	.17803	.89634	.11282	.82415
Stddev	.00155	.00034	.00111	.00123	.00052	.00779	.00035	.00218
%RSD	.32541	.37354	.53404	1.9406	.29420	.86959	.31108	.26420
#1	.47933	.08994	.20928	.06413	.17864	.89839	.11309	.82551
#2	.47643	.09062	.20730	.06410	.17771	.90290	.11242	.82530
#3	.47690	.09022	.20741	.06198	.17775	.88772	.11296	.82164

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.88111	.07756	2.0314	.25351	.57605	10.224	1.3167
Stddev	.00019	.00017	.0065	.00042	.00530	.086	.0116
%RSD	.02205	.21797	.31733	.16699	.91976	.84368	.87802
#1	.88090	.07749	2.0332	.25399	.57925	10.262	1.3206
#2	.88118	.07775	2.0367	.25332	.57897	10.285	1.3258
#3	.88127	.07743	2.0242	.25321	.56994	10.126	1.3037

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/20/2025 12:53:51 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3432.8	35023.	3818.1	3286.9	3570.0
Stddev	7.2	147.	25.3	6.7	6.6
%RSD	.21021	.41837	.66200	.20308	.18442
#1	3436.6	34952.	3811.3	3283.9	3567.9
#2	3437.4	34926.	3796.8	3294.6	3577.4
#3	3424.5	35192.	3846.0	3282.3	3564.8

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/20/2025 12:57:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	598.18	.25571	3.2669	.24114	.34205	5.0584	13.568	2.3422
Stddev	4.23	.00225	.0257	.00272	.00348	.0204	.052	.0167
%RSD	.70755	.88154	.78698	1.1293	1.0182	.40234	.38549	.71284
#1	593.34	.25318	3.2375	.23805	.33817	5.0668	13.569	2.3538
#2	601.17	.25648	3.2777	.24217	.34308	5.0352	13.515	2.3231
#3	600.03	.25748	3.2854	.24320	.34491	5.0732	13.619	2.3498

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.2715	7.2689	2.0039	1.3282	1.2863	1.8252	4.2989	1.4453
Stddev	.0449	.0223	.0179	.0108	.0053	.0072	.0218	.0019
%RSD	.85133	.30722	.89224	.81474	.41359	.39265	.50706	.12796
#1	5.2200	7.2667	1.9962	1.3158	1.2841	1.8211	4.2989	1.4465
#2	5.2923	7.2478	2.0244	1.3329	1.2824	1.8209	4.2772	1.4432
#3	5.3022	7.2923	1.9913	1.3358	1.2924	1.8334	4.3208	1.4462

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.94596	.17806	.41457	.12599	.36348	1.5525	.23264	1.5999
Stddev	.00801	.00151	.00645	.00090	.00491	.0109	.00218	.0093
%RSD	.84679	.85017	1.5561	.71475	1.3506	.70079	.93657	.58404
#1	.93671	.17761	.40843	.12531	.36028	1.5472	.23012	1.6008
#2	.95065	.17975	.41397	.12566	.36913	1.5454	.23388	1.5901
#3	.95052	.17683	.42129	.12701	.36102	1.5651	.23391	1.6087

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.7677	.15659	3.9151	.50396	1.1441	20.339	2.5325
Stddev	.0164	.00133	.0196	.00459	.0036	.094	.0094
%RSD	.92734	.84907	.49976	.91084	.31071	.46076	.37156
#1	1.7494	.15508	3.9221	.49867	1.1433	20.326	2.5378
#2	1.7726	.15758	3.8929	.50639	1.1410	20.252	2.5216
#3	1.7810	.15710	3.9301	.50683	1.1480	20.438	2.5380

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/20/2025 12:57:38 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3253.4	33904.	3736.8	3120.6	3383.7
Stddev	14.4	296.	21.9	25.8	10.7
%RSD	.44158	.87437	.58534	.82557	.31523
#1	3265.8	34087.	3739.1	3143.4	3393.1
#2	3256.8	33562.	3757.5	3092.7	3386.0
#3	3237.7	34062.	3713.9	3125.9	3372.1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/20/2025 13:01:23 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1214.5	.50603	6.6252	.51334	.73036	10.229	27.012	4.5510
Stddev	1.3	.00048	.0091	.00084	.00118	.023	.060	.0191
%RSD	.10442	.09509	.13680	.16432	.16141	.22010	.22324	.41918
#1	1213.1	.50571	6.6164	.51271	.72900	10.225	26.951	4.5709
#2	1215.5	.50580	6.6246	.51301	.73107	10.252	27.072	4.5329
#3	1214.9	.50658	6.6345	.51430	.73101	10.208	27.011	4.5490

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.647	14.411	3.9611	2.6543	2.5671	3.6004	8.5023	2.8537
Stddev	.016	.034	.0515	.0040	.0016	.0107	.0165	.0080
%RSD	.15045	.23920	1.3013	.14985	.06287	.29775	.19394	.28043
#1	10.638	14.396	3.9244	2.6524	2.5675	3.5963	8.4920	2.8471
#2	10.637	14.451	4.0201	2.6515	2.5684	3.6126	8.5214	2.8626
#3	10.665	14.387	3.9389	2.6588	2.5653	3.5923	8.4936	2.8513

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.9002	.35847	.84173	.25342	.77575	2.8688	.48492	3.0345
Stddev	.0021	.00427	.00441	.00146	.01970	.0091	.00123	.0066
%RSD	.10908	1.1902	.52352	.57419	2.5395	.31594	.25368	.21640
#1	1.9000	.35527	.84515	.25465	.75740	2.8629	.48435	3.0393
#2	1.8982	.36332	.84329	.25182	.79657	2.8792	.48408	3.0270
#3	1.9023	.35683	.83676	.25379	.77328	2.8643	.48633	3.0372

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.7193	.32767	7.5220	1.0137	2.2875	40.628	4.9504
Stddev	.0041	.00051	.0132	.0023	.0039	.606	.0094
%RSD	.11052	.15439	.17503	.22437	.17187	1.4908	.19012
#1	3.7148	.32708	7.5308	1.0140	2.2908	40.284	4.9441
#2	3.7200	.32795	7.5068	1.0113	2.2887	40.272	4.9612
#3	3.7229	.32796	7.5282	1.0158	2.2832	41.327	4.9459

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/20/2025 13:01:23 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.2	33653.	3851.7	2982.4	3297.4
Stddev	5.0	375.	18.9	46.1	7.9
%RSD	.16179	1.1134	.49186	1.5465	.24065
#1	3074.1	33919.	3833.1	3022.3	3293.7
#2	3081.9	33224.	3870.9	2931.9	3306.6
#3	3072.6	33814.	3851.2	2992.8	3292.1

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/20/2025 13:05:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2314.6	.96119	12.809	1.1023	1.5776	20.422	52.572	8.7735
Stddev	8.3	.00269	.044	.0036	.0053	.250	.577	.0858
%RSD	.35767	.28001	.34163	.33035	.33631	1.2264	1.0970	.97802
#1	2314.1	.96175	12.797	1.1013	1.5771	20.143	52.566	8.6799
#2	2306.6	.95826	12.774	1.0992	1.5726	20.494	51.998	8.8484
#3	2323.1	.96355	12.858	1.1063	1.5832	20.629	53.151	8.7924

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	20.518	27.790	7.3945	5.1204	5.0201	7.0396	16.640	5.5722
Stddev	.076	.277	.0485	.0174	.0572	.0922	.201	.0672
%RSD	.37255	.99753	.65638	.33915	1.1403	1.3094	1.2072	1.2055
#1	20.498	27.495	7.3399	5.1176	4.9608	6.9386	16.421	5.4971
#2	20.454	27.830	7.4327	5.1045	5.0242	7.0610	16.683	5.5933
#3	20.603	28.045	7.4109	5.1389	5.0751	7.1192	16.816	5.6264

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.6720	.69541	1.6723	.49428	1.6285	5.5431	.96298	5.6831
Stddev	.0123	.00373	.0221	.00611	.0265	.0607	.00455	.0426
%RSD	.33419	.53671	1.3223	1.2367	1.6253	1.0947	.47286	.74995
#1	3.6694	.69110	1.6481	.48768	1.6207	5.4743	.96221	5.6355
#2	3.6613	.69767	1.6773	.49541	1.6068	5.5663	.95885	5.7178
#3	3.6854	.69747	1.6915	.49975	1.6580	5.5888	.96786	5.6960

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.9140	.65866	14.315	1.9538	4.4954	79.912	9.5728
Stddev	.0318	.00331	.107	.0066	.0617	1.095	.1006
%RSD	.40128	.50329	.75032	.34001	1.3725	1.3706	1.0513
#1	7.9012	.65812	14.196	1.9518	4.4301	78.650	9.4642
#2	7.8906	.65566	14.405	1.9485	4.5034	80.617	9.5912
#3	7.9501	.66222	14.342	1.9613	4.5528	80.470	9.6629

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/20/2025 13:05:16 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.0	33127.	3801.0	2713.4	3138.2
Stddev	6.4	132.	24.1	34.7	6.8
%RSD	.23670	.39698	.63277	1.2805	.21688
#1	2708.3	33267.	3828.7	2712.7	3144.0
#2	2704.7	33108.	3788.6	2748.5	3139.9
#3	2695.9	33006.	3785.7	2679.0	3130.7

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/20/2025 13:09:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	54.066	45.688	19.169	9.1313	4.7410
Stddev	.796	.419	.085	.0340	.0138
%RSD	1.4725	.91615	.44168	.37206	.29047
#1	53.258	45.268	19.136	9.1160	4.7378
#2	54.850	46.106	19.266	9.1703	4.7561
#3	54.089	45.689	19.106	9.1077	4.7291

Int. Std.	Y_3710
Units	Cts/S
Avg	3713.5
Stddev	4.7
%RSD	.12710
#1	3708.3
#2	3717.5
#3	3714.6

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICV001 Acquired: 01/20/2025 13:13:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.133203	1.056117	.9930333	.9092954	F .8641104	2.471024
Stddev	.002920	.004496	.0038332	.0024421	.0059816	.025046
%RSD	.2576391	.4256696	.3860107	.2685722	.6922221	1.013571
#1	1.131468	1.054948	.9917304	.9101506	.8704721	2.445058
#2	1.136574	1.052321	.9900214	.9065407	.8586002	2.495035
#3	1.131568	1.061082	.9973481	.9111949	.8632589	2.472978

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5162127	.5232512	.4916470	10.35345	.5390493	.4971033
Stddev	.0047053	.0071840	.0018378	.12342	.0039396	.0016200
%RSD	.9115038	1.372948	.3738025	1.192057	.7308422	.3258915
#1	.5122796	.5164301	.4919757	10.26314	.5435402	.4968388
#2	.5149331	.5225736	.4896671	10.30314	.5374320	.4956317
#3	.5214254	.5307500	.4932983	10.49408	.5361757	.4988392

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5202382	10.46480	.5314303	6.147760	.4982688	.2406259
Stddev	.0085529	.08057	.0044623	.094253	.0010541	.0022574
%RSD	1.644039	.7699343	.8396858	1.533123	.2115421	.9381299
#1	.5210979	10.40947	.5296744	6.113349	.4976798	.2432235
#2	.5112878	10.42769	.5281130	6.075547	.4976409	.2395145
#3	.5283287	10.55724	.5365035	6.254382	.4994857	.2391396

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 11.15863	.5203672	F .8850944	F 8.875157	F .0009101	F .0041235
Stddev	.14993	.0026321	.0143498	.191718	.0009934	.0013860
%RSD	1.343665	.5058223	1.621272	2.160162	109.1488	33.61156
#1	11.33115	.5225353	.9011600	8.704186	.0020357	.0040253
#2	11.08488	.5174386	.8735489	8.838854	.0005391	.0027892
#3	11.05984	.5211279	.8805743	9.082431	.0001557	.0055559

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICV001 Acquired: 01/20/2025 13:13:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000098	F .0066596	F -.000787	F -.000824	F -.001642	F -.009532
Stddev	.000299	.0006930	.001116	.000839	.002638	.000173
%RSD	306.4775	10.40550	141.9377	101.8463	160.6132	1.816578
#1	.000236	.0074515	-.000396	-.001663	-.004083	-.009382
#2	-.000342	.0063636	-.002046	.000015	.001156	-.009494
#3	-.000187	.0061639	.000082	-.000824	-.001999	-.009721

Elem	Li6707
Units	ppm
Avg	F .0285316
Stddev	.0030927
%RSD	10.83939
#1	.0317568
#2	.0282470
#3	.0255912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3653.715	38820.45	3989.151	3538.862	3979.493
Stddev	10.162	328.53	60.026	42.162	16.753
%RSD	.2781197	.8462798	1.504719	1.191390	.4209909
#1	3656.946	38442.15	4039.947	3499.725	3987.946
#2	3661.869	39034.07	4004.593	3583.507	3990.336
#3	3642.331	38985.13	3922.913	3533.354	3960.197

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICB001 Acquired: 01/20/2025 13:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000263	.0010280	-.000551	-.002950	-.002400	-.016816	.0086008
Stddev	.001598	.0020220	.001748	.001811	.000591	.051298	.0014863
%RSD	607.7134	196.7021	317.3448	61.38876	24.61022	305.0555	17.28058
#1	-.001464	.0020402	-.000192	-.005026	-.001790	-.069547	.0095116
#2	.001551	-.001300	.000990	-.001691	-.002441	.032918	.0068857
#3	-.000876	.002344	-.002451	-.002134	-.002969	-.013819	.0094051

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000117	.0000390	-.001230	.0002744	-.000117	.0005631	-.014009
Stddev	.0001096	.0000880	.016570	.0002268	.000094	.0011632	.012793
%RSD	940.8210	225.4964	1347.002	82.63159	79.96504	206.5714	91.31944
#1	.0000337	.0000114	-.004020	.0005209	-.000133	.0018747	-.003793
#2	-.000107	.0001374	.016558	.0000746	-.000202	-.000343	-.009877
#3	.000109	-.000032	-.016229	.0002278	-.000017	.000158	-.028356

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000480	.0300772	.0001803	.0010764	.4869892	-.004751	-.005418
Stddev	.001001	.0413180	.0001493	.0005196	.8877614	.002008	.004955
%RSD	208.4553	137.3732	82.80797	48.26657	182.2959	42.25810	91.45340
#1	.000672	.0185658	.0000284	.0012452	.2588658	-.003800	-.009712
#2	-.000976	.0759302	.0003268	.0004935	1.466551	-.007057	-.006547
#3	-.001137	-.004264	.0001857	.0014906	-.264449	-.003396	.000004

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5085362	.0009330	.0025770	-.000291	.0000842	-.001196	-.000449
Stddev	.0976723	.0013474	.0012249	.000227	.0036289	.000294	.001008
%RSD	19.20656	144.4164	47.53125	78.15472	4309.344	24.56159	224.4754
#1	.4037360	-.000467	.0032526	-.000516	.0042191	-.001131	.000109
#2	.5248453	.001046	.0011631	-.000294	-.002571	-.000940	-.001613
#3	.5970274	.002220	.0033152	-.000062	-.001395	-.001517	.000157

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICB001 Acquired: 01/20/2025 13:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	-.001466	-.000172	.0145715
Stddev	.002403	.000121	.0038341
%RSD	163.8974	70.29537	26.31218
#1	.000549	-.000034	.0178102
#2	-.004126	-.000224	.0155663
#3	-.000822	-.000259	.0103381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3619.048	38113.81	3823.008	3451.428	4073.574
Stddev	5.913	16.18	17.741	10.531	1.295
%RSD	.1633771	.0424478	.4640550	.3051148	.0317989
#1	3612.888	38132.43	3811.620	3442.480	4075.065
#2	3619.578	38103.17	3843.449	3448.772	4072.730
#3	3624.678	38105.83	3813.955	3463.033	4072.926

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICSA001 Acquired: 01/20/2025 13:21:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075738	F -.028476	-.008087	F .0435407	.0121945	242.5245
Stddev	.0023453	.002206	.001344	.0061050	.0041768	1.5935
%RSD	30.96543	7.746764	16.61523	14.02142	34.25123	.6570392
#1	.0100520	-.026015	-.009637	.0504621	.0092914	243.5561
#2	.0072804	-.030276	-.007251	.0389216	.0169814	243.3282
#3	.0053891	-.029136	-.007373	.0412383	.0103108	240.6892

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143263	.0025214	.0004993	247.6519	.0506421	.0276679
Stddev	.0023907	.0001982	.0001243	.5281	.0007578	.0001242
%RSD	16.68780	7.860545	24.89664	.2132341	1.496363	.4488191
#1	.0148162	.0023314	.0003758	247.4337	.0511076	.0275686
#2	.0164341	.0027269	.0006244	248.2541	.0497677	.0276280
#3	.0117285	.0025059	.0004976	247.2678	.0510510	.0278071

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.016897	102.1537	.0094156	249.2381	.0069489	F .0147012
Stddev	.005343	.5269	.0004907	1.3871	.0005830	.0009834
%RSD	31.61883	.5157715	5.211771	.5565394	8.389021	6.689570
#1	-.017365	102.4363	.0099535	249.6408	.0065989	.0145980
#2	-.021989	102.4789	.0089923	250.3794	.0066260	.0157321
#3	-.011335	101.5458	.0093011	247.6943	.0076219	.0137733

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.025335	.0059231	-.039585	-1.22971	.0017685	F -.015538
Stddev	.305997	.0074704	.003219	.11892	.0020666	.003407
%RSD	15.10848	126.1244	8.131084	9.670748	116.8598	21.92817
#1	1.809341	.0009831	-.036981	-1.09627	.0041496	-.011613
#2	1.891166	.0145172	-.043183	-1.26833	.0004415	-.017735
#3	2.375498	.0022689	-.038589	-1.32452	.0007143	-.017265

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICSA001 Acquired: 01/20/2025 13:21:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015591	.0024580	-.007588	F .0085414	.0017319	-.006345
Stddev	.0007565	.0020470	.000735	.0004214	.0041712	.000316
%RSD	48.52379	83.27976	9.689830	4.933048	240.8422	4.975782
#1	.0013382	.0047269	-.006894	.0088271	.0061271	-.006260
#2	.0024014	.0007497	-.007511	.0087396	-.002172	-.006695
#3	.0009375	.0018973	-.008359	.0080575	.001240	-.006081

Elem	Li6707
Units	ppm
Avg	F .0170773
Stddev	.0038767
%RSD	22.70116
#1	.0170760
#2	.0132012
#3	.0209547

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3375.429	34349.19	3760.505	3216.321	3443.261
Stddev	6.459	157.45	19.263	17.411	3.130
%RSD	.1913567	.4583690	.5122418	.5413374	.0908952
#1	3382.548	34169.89	3754.550	3196.509	3444.400
#2	3373.793	34464.87	3744.923	3229.189	3439.721
#3	3369.944	34412.81	3782.042	3223.264	3445.661

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 01/20/2025 13:25:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1112230	F .0771165	.0425593	F .0888808	.5445431	249.9401
Stddev	.0018677	.0038113	.0038885	.0062400	.0035402	.5172
%RSD	1.679239	4.942291	9.136661	7.020683	.6501286	.2069190
#1	.1131097	.0813202	.0382186	.0834049	.5409984	249.3900
#2	.1093749	.0761428	.0437352	.0875629	.5445522	250.0137
#3	.1111843	.0738864	.0457242	.0956745	.5480788	250.4165

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5373953	.5297043	1.015352	255.6633	.5977585	.5285526
Stddev	.0017711	.0026361	.002703	.3444	.0031007	.0012052
%RSD	.3295679	.4976612	.2662249	.1346946	.5187153	.2280089
#1	.5353840	.5267066	1.018166	255.2685	.5977112	.5297101
#2	.5380804	.5307450	1.012775	255.9014	.6008826	.5273049
#3	.5387215	.5316612	1.015116	255.8201	.5946818	.5286429

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5058599	105.5539	.5377234	256.9813	1.011549	.2181039
Stddev	.0020919	.2880	.0016684	.4377	.003408	.0007132
%RSD	.4135340	.2728834	.3102633	.1703230	.3369392	.3269816
#1	.5067588	105.2542	.5363174	256.5149	1.015484	.2186675
#2	.5034688	105.5788	.5395669	257.3831	1.009584	.2183420
#3	.5073522	105.8287	.5372858	257.0460	1.009578	.2173021

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.218095	.5332544	.9321783	-2.36101	.0012454	F -.020751
Stddev	.792763	.0074460	.0042837	.21240	.0017717	.002334
%RSD	35.74070	1.396335	.4595385	8.996092	142.2521	11.24913
#1	1.317707	.5254308	.9316324	-2.18079	-.000617	-.019770
#2	2.811286	.5402543	.9367088	-2.59518	.001444	-.023415
#3	2.525293	.5340781	.9281937	-2.30706	.002910	-.019067

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: ICSAB001 Acquired: 01/20/2025 13:25:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011268	.0017953	-.006531	F .0089826	.0040754	-.006612
Stddev	.0002913	.0025847	.000043	.0003629	.0021027	.000380
%RSD	25.84659	143.9729	.6611992	4.040255	51.59376	5.748594
#1	.0008037	.0006593	-.006513	.0087152	.0026621	-.007019
#2	.0013691	-.000027	-.006580	.0088370	.0030724	-.006551
#3	.0012078	.004753	-.006499	.0093958	.0064918	-.006266

Elem	Li6707
Units	ppm
Avg	F .0174318
Stddev	.0042431
%RSD	24.34090
#1	.0128455
#2	.0182323
#3	.0212176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3292.498	33791.09	3719.738	3141.509	3395.053
Stddev	6.238	107.92	2.398	19.509	5.842
%RSD	.1894590	.3193632	.0644573	.6209974	.1720660
#1	3291.323	33709.66	3722.373	3140.686	3388.339
#2	3299.240	33750.12	3719.157	3122.425	3398.968
#3	3286.931	33913.49	3717.685	3161.416	3397.853

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCV001 Acquired: 01/20/2025 13:29:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.064698	4.967037	25.55507	5.182146	5.126118	418.7247	10.27380
Stddev	.016137	.023098	.13293	.028577	.032859	3.5497	.01455
%RSD	.3186248	.4650220	.5201894	.5514496	.6410166	.8477459	.1416606
#1	5.083250	4.979977	25.55065	5.181719	5.127705	416.9942	10.28943
#2	5.053912	4.940370	25.42440	5.153785	5.092494	422.8078	10.26063
#3	5.056933	4.980765	25.69016	5.210934	5.158156	416.3721	10.27134

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5112341	2.571891	411.5429	15.35840	2.565443	15.46042	418.0549
Stddev	.0021992	.012855	1.4397	.11747	.013225	.05450	2.4290
%RSD	.4301733	.4998426	.3498261	.7648895	.5154920	.3525432	.5810298
#1	.5106641	2.573024	411.3893	15.22414	2.565197	15.46961	417.0115
#2	.5136621	2.558507	413.0532	15.40881	2.552344	15.50974	420.8313
#3	.5093759	2.584143	410.1861	15.44226	2.578789	15.40190	416.3219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.50839	414.2275	2.561173	1.296202	413.0581	2.621653	15.45320
Stddev	.09171	2.4476	.013140	.011057	2.2415	.027646	.14165
%RSD	.5913849	.5908765	.5130326	.8530098	.5426479	1.054518	.9166506
#1	15.46583	413.0483	2.562767	1.283473	412.9832	2.625944	15.30772
#2	15.61365	417.0415	2.547309	1.303417	415.3361	2.646901	15.59068
#3	15.44569	412.5927	2.573443	1.301717	410.8551	2.592112	15.46119

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	158.8635	5.165169	4.950309	5.046341	5.166032	4.943422	5.156046
Stddev	.9004	.025332	.019200	.032920	.030445	.014441	.028673
%RSD	.5667811	.4904340	.3878500	.6523540	.5893311	.2921282	.5561087
#1	158.2992	5.169770	4.944365	5.036957	5.179442	4.941165	5.159047
#2	159.9019	5.137853	4.971778	5.019132	5.131184	4.958859	5.125990
#3	158.3894	5.187886	4.934785	5.082934	5.187470	4.930242	5.183101

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCV001 Acquired: 01/20/2025 13:29:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.196675	4.937224	5.134845
Stddev	.029318	.044642	.007836
%RSD	.5641709	.9041964	.1525999
#1	5.188985	4.902667	5.137036
#2	5.229072	4.987628	5.141352
#3	5.171969	4.921377	5.126147

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2884.096	33488.25	3767.680	2906.341	3124.424
Stddev	17.195	267.74	14.516	22.520	12.820
%RSD	.5961982	.7995120	.3852745	.7748422	.4103104
#1	2892.228	33797.34	3774.355	2931.776	3128.568
#2	2895.717	33327.83	3751.027	2888.941	3134.659
#3	2864.343	33339.58	3777.658	2898.307	3110.044

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCB001 Acquired: 01/20/2025 13:34:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027139	.0005033	-.000629	-.000797	-.002376	-.016874	.0077808
Stddev	.0018540	.0004293	.001287	.000723	.001574	.019639	.0004095
%RSD	68.31639	85.29090	204.7421	90.73388	66.23635	116.3849	5.262532
#1	.0035898	.0007720	-.001318	-.001632	-.004162	-.038458	.0073088
#2	.0005842	.0007298	.000856	-.000371	-.001774	-.012107	.0080397
#3	.0039677	.0000082	-.001424	-.000388	-.001192	-.000058	.0079941

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000144	.0000893	.0054010	-.000178	-.000002	.0052925	.0058536
Stddev	.0000845	.0000612	.0236061	.000238	.000368	.0039905	.0250098
%RSD	589.3512	68.60973	437.0697	133.6530	18187.42	75.39847	427.2553
#1	.0000184	.0001588	-.011722	.000097	-.000227	.0095796	.0343866
#2	-.000072	.0000431	.032330	-.000306	.000422	.0046116	-.012272
#3	.000097	.0000660	-.004405	-.000325	-.000201	.0016863	-.004554

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001046	.0110455	.0002281	.0012231	.4867896	.0017669	-.006320
Stddev	.000391	.0281985	.0003884	.0002852	.6163748	.0076197	.001413
%RSD	37.33807	255.2942	170.2657	23.31388	126.6204	431.2485	22.36096
#1	-.000734	.0359196	.0006672	.0014373	.8571121	.0105616	-.004707
#2	-.000920	-.019588	.0000879	.0008994	-.224740	-.002854	-.006912
#3	-.001484	.016805	-.000071	.0013325	.827997	-.002407	-.007342

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4044381	-.000396	.0053326	.0001910	-.001051	-.001439	.0000836
Stddev	.1599605	.001089	.0000845	.0003975	.000994	.000973	.0004502
%RSD	39.55130	275.0586	1.585514	208.1006	94.58604	67.59614	538.6184
#1	.5559243	-.001200	.0052909	.0005921	-.001274	-.000426	-.000154
#2	.2371727	.000844	.0054299	.0001837	-.001914	-.001525	-.000198
#3	.4202173	-.000832	.0052771	-.000203	.000036	-.002367	.000603

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCB001 Acquired: 01/20/2025 13:34:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0004771	-.000164	.0133472
Stddev	.0009116	.000235	.0027550
%RSD	191.0565	143.4770	20.64128
#1	-.000282	-.000373	.0159241
#2	.000225	-.000210	.0136742
#3	.001488	.000091	.0104432

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3625.034	38989.21	3891.784	3528.076	4156.558
Stddev	8.192	221.70	8.928	22.853	9.707
%RSD	.2259818	.5686123	.2293988	.6477435	.2335409
#1	3634.458	38746.91	3889.416	3501.689	4164.652
#2	3619.621	39038.81	3901.657	3541.514	4145.795
#3	3621.022	39181.90	3884.280	3541.024	4159.226

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-01 Acquired: 01/20/2025 13:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0B99 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.053123	.0132415	.0035346	-.007271	.0476764	.0302199
Stddev	.005000	.0031082	.0012298	.002300	.0017025	.0072658
%RSD	9.411505	23.47356	34.79382	31.63657	3.570989	24.04300
#1	-.048180	.0140900	.0044537	-.005342	.0494766	.0316085
#2	-.053013	.0097971	.0021375	-.006654	.0474605	.0223600
#3	-.058177	.0158374	.0040126	-.009817	.0460922	.0366912

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3868201	.0003017	-.000457	68.10030	6.878770	.0314794
Stddev	.0031522	.0001391	.000057	.22669	.012741	.0004154
%RSD	.8148953	46.08868	12.39902	.3328701	.1852268	1.319709
#1	.3892039	.0003883	-.000464	68.36000	6.880960	.0317551
#2	.3832462	.0001413	-.000398	67.94212	6.865076	.0310016
#3	.3880104	.0003756	-.000510	67.99877	6.890275	.0316816

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053476	.2967350	.4247015	24.96226	.1919284	.0002088
Stddev	.0086089	.0117461	.0026302	.09553	.0008521	.0008740
%RSD	160.9865	3.958444	.6193035	.3827125	.4439793	418.5563
#1	.0122510	.3097612	.4276756	25.04436	.1929112	.0011755
#2	.0080904	.2934945	.4226816	24.85740	.1914783	-.000023
#3	-.004299	.2869493	.4237474	24.98503	.1913956	-.000526

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.64229	-.011798	.0175450	F -9.72619	.0918026	.0123266
Stddev	.54513	.010814	.0049843	.12296	.0009556	.0024300
%RSD	2.212176	91.66423	28.40854	1.264230	1.040873	19.71313
#1	24.12640	-.008142	.0183694	-9.58916	.0908009	.0125666
#2	25.21258	-.003285	.0220656	-9.76253	.0927040	.0146277
#3	24.58788	-.023966	.0121998	-9.82689	.0919029	.0097856

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-01 Acquired: 01/20/2025 13:38:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0B99 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009887	6.774109	7.147528	-.001079	-.000450	.1517884
Stddev	.0003645	.018805	.018352	.000542	.001596	.0011214
%RSD	36.86556	.2775964	.2567623	50.19545	354.6552	.7388177
#1	.0007627	6.785226	7.156028	-.000517	-.000856	.1529840
#2	.0007943	6.752398	7.126467	-.001124	.001310	.1507598
#3	.0014092	6.784704	7.160089	-.001597	-.001805	.1516215

Elem	Li6707
Units	ppm
Avg	.0050208
Stddev	.0007341
%RSD	14.62097
#1	.0045544
#2	.0046410
#3	.0058670

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.932	40590.62	4090.195	3598.803	4146.751
Stddev	20.292	139.24	25.795	19.902	19.334
%RSD	.5583942	.3430344	.6306550	.5530248	.4662374
#1	3618.654	40450.32	4062.816	3578.277	4135.271
#2	3656.955	40728.78	4114.043	3600.116	4169.073
#3	3626.186	40592.76	4093.726	3618.016	4135.909

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-04 Acquired: 01/20/2025 13:42:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002977	.0128299	.0032942	-.009455	-.007516	.0236268
Stddev	.003466	.0020644	.0012603	.001186	.001895	.0235472
%RSD	116.3987	16.09036	38.25799	12.53958	25.21677	99.66325
#1	-.004353	.0151982	.0019123	-.008148	-.008281	.0483251
#2	-.005544	.0118798	.0035904	-.009756	-.005358	.0211248
#3	.000965	.0114116	.0043801	-.010462	-.008910	.0014305

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1829054	.0001154	.0000200	70.01186	.1549170	.0186316
Stddev	.0009041	.0000560	.0000806	.89164	.0026906	.0000871
%RSD	.4942869	48.50484	401.7605	1.273550	1.736810	.4677217
#1	.1839493	.0001658	.0001054	71.01928	.1546639	.0187302
#2	.1823952	.0001254	.0000094	69.32419	.1523618	.0185992
#3	.1823719	.0000551	-.000055	69.69210	.1577252	.0185652

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003411	.0116942	.0362562	25.94036	.0203813	.0003218
Stddev	.006807	.0061747	.0012188	.25842	.0002749	.0008008
%RSD	199.5702	52.80156	3.361558	.9961924	1.348806	248.7945
#1	.002091	.0055017	.0376285	26.20445	.0204079	-.000498
#2	-.011023	.0178510	.0353000	25.68802	.0206419	.001102
#3	-.001301	.0117299	.0358401	25.92861	.0200940	.000361

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.32901	.0007918	.0049012	F -9.81596	.0280073	.0424285
Stddev	.52095	.0087055	.0076712	.06597	.0007256	.0021568
%RSD	1.978613	1099.523	156.5163	.6720614	2.590667	5.083327
#1	26.80856	-.001860	-.002429	-9.78497	.0287465	.0448007
#2	26.40373	-.006280	.004259	-9.89172	.0272962	.0418990
#3	25.77473	.010515	.012873	-9.77120	.0279791	.0405858

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-04 Acquired: 01/20/2025 13:42:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007956	6.396794	7.062199	-.001294	.0002377	.1818821
Stddev	.0002703	.006136	.114857	.001329	.0007193	.0021446
%RSD	33.98012	.0959168	1.626357	102.7264	302.5638	1.179100
#1	.0008437	6.396990	7.185903	.000237	-.000419	.1842730
#2	.0005044	6.390563	6.958934	-.002156	.001006	.1801281
#3	.0010386	6.402830	7.041759	-.001962	.000126	.1812452

Elem	Li6707
Units	ppm
Avg	.0099376
Stddev	.0003499
%RSD	3.520985
#1	.0100425
#2	.0095473
#3	.0102232

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.151	38412.06	3893.155	3500.438	3946.502
Stddev	12.844	400.59	29.755	28.123	11.089
%RSD	.3544972	1.042869	.7642947	.8034122	.2809743
#1	3636.160	38546.17	3863.456	3512.640	3959.048
#2	3610.479	38728.39	3922.966	3520.399	3938.013
#3	3622.814	37961.62	3893.044	3468.275	3942.446

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-05 Acquired: 01/20/2025 13:46:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002419	.0123169	.0046110	-.006825	-.010304	.0115969
Stddev	.002256	.0008399	.0020244	.001794	.002395	.0264157
%RSD	93.27303	6.819222	43.90354	26.27828	23.24336	227.7825
#1	-.000193	.0118533	.0066076	-.007874	-.008142	.0419019
#2	-.002360	.0118109	.0025599	-.007847	-.012878	-.006555
#3	-.004704	.0132864	.0046655	-.004754	-.009890	-.000557

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1757285	.0000952	.0000037	68.24150	.1550100	.0185126
Stddev	.0039602	.0001183	.0001369	.43379	.0010731	.0002121
%RSD	2.253584	124.2492	3661.059	.6356676	.6922933	1.145608
#1	.1723722	-.000039	.0000439	67.95517	.1537716	.0186297
#2	.1800963	.000183	-.000149	68.74059	.1555927	.0186404
#3	.1747168	.000143	.000116	68.02874	.1556658	.0182678

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000464	.0055937	.0350670	25.08727	.0195956	.0002345
Stddev	.005099	.0321140	.0004294	.03371	.0004936	.0009070
%RSD	1098.339	574.1067	1.224496	.1343837	2.518989	386.7997
#1	.002936	-.027200	.0350641	25.08222	.0200785	.0002869
#2	-.006326	.036982	.0354978	25.12323	.0190919	.0011141
#3	.001997	.007000	.0346390	25.05638	.0196166	-.000698

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.73380	-.008629	.0078047	F -9.88128	.0281283	.0425139
Stddev	.82765	.006455	.0021528	.07412	.0002892	.0011749
%RSD	3.216199	74.80825	27.58326	.7501061	1.028157	2.763507
#1	26.59027	-.001182	.0072411	-9.92242	.0282774	.0418309
#2	24.93835	-.012620	.0101832	-9.79572	.0283124	.0438706
#3	25.67276	-.012086	.0059897	-9.92571	.0277949	.0418404

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-05 Acquired: 01/20/2025 13:46:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005968	6.317943	6.951857	-.001438	.0009141	.1757970
Stddev	.0001524	.055628	.029067	.000651	.0002308	.0006994
%RSD	25.53740	.8804689	.4181136	45.29200	25.25276	.3978265
#1	.0007666	6.254576	6.922660	-.001624	.0007332	.1756511
#2	.0004720	6.340520	6.980791	-.001975	.0008350	.1765578
#3	.0005518	6.358732	6.952120	-.000714	.0011741	.1751820

Elem	Li6707
Units	ppm
Avg	.0074921
Stddev	.0037299
%RSD	49.78396
#1	.0082200
#2	.0108044
#3	.0034520

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.268	38476.78	3949.391	3553.995	4022.462
Stddev	35.043	296.84	20.144	32.361	30.267
%RSD	.9488371	.7714842	.5100576	.9105549	.7524393
#1	3733.640	38469.56	3943.732	3557.492	4057.411
#2	3675.447	38183.62	3932.681	3520.028	4004.995
#3	3670.717	38777.17	3971.759	3584.466	4004.980

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-04LX5 Acquired: 01/20/2025 13:49:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000770	.0043351	.0029365	-.000606	-.004071	-.022842	.0468235
Stddev	.001164	.0017250	.0006781	.001966	.002527	.019937	.0014302
%RSD	151.0948	39.79127	23.09266	324.3493	62.08286	87.28073	3.054413
#1	-.000269	.0037634	.0021613	-.000130	-.006388	-.005466	.0472822
#2	.000059	.0029686	.0032285	.001078	-.004448	-.044608	.0479680
#3	-.002100	.0062734	.0034196	-.002767	-.001376	-.018452	.0452202

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001004	.0000450	14.64119	.0321919	.0077684	.0024558	.0406798
Stddev	.0000334	.0000045	.00955	.0006755	.0000448	.0005766	.0247230
%RSD	33.24150	9.934828	.0652221	2.098331	.5769930	23.47724	60.77478
#1	.0000703	.0000444	14.63896	.0325999	.0077588	.0027912	.0408446
#2	.0001363	.0000497	14.65166	.0325636	.0078172	.0027861	.0158747
#3	.0000945	.0000408	14.63296	.0314122	.0077291	.0017900	.0653200

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080733	5.493445	.0038197	.0014276	6.420440	.0026627	-.002728
Stddev	.0005636	.060276	.0001002	.0000223	.529392	.0079332	.005078
%RSD	6.981117	1.097241	2.623101	1.564183	8.245416	297.9333	186.1672
#1	.0074316	5.439273	.0039327	.0014362	6.179147	-.002496	-.002165
#2	.0084878	5.558376	.0037848	.0014444	6.054683	-.001314	-.008064
#3	.0083007	5.482685	.0037417	.0014023	7.027491	.011798	.002046

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-1.75552	.0059008	.0059118	-.000003	1.287573	1.437743	-.001285
Stddev	.23202	.0020914	.0019946	.000200	.007015	.005253	.000371
%RSD	13.21645	35.44215	33.73922	5869.853	.5448296	.3653430	28.85746
#1	-1.95277	.0054104	.0074962	.000223	1.284891	1.443625	-.001238
#2	-1.49989	.0040982	.0065674	-.000156	1.282294	1.436084	-.001677
#3	-1.81391	.0081938	.0036720	-.000077	1.295533	1.433521	-.000940

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-04LX5 Acquired: 01/20/2025 13:49:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0022814	.0379475	.0087707
Stddev	.0012523	.0004499	.0032826
%RSD	54.89348	1.185642	37.42718
#1	.0030405	.0384500	.0101888
#2	.0008359	.0378104	.0050174
#3	.0029678	.0375821	.0111060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3564.469	37995.29	3826.222	3441.335	3983.691
Stddev	14.866	46.17	15.887	9.661	18.111
%RSD	.4170490	.1215146	.4152030	.2807382	.4546213
#1	3548.243	38044.46	3807.878	3431.394	3966.271
#2	3577.432	37988.57	3835.307	3450.690	4002.421
#3	3567.731	37952.86	3835.480	3441.922	3982.381

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-06 Acquired: 01/20/2025 13:54:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0444622	.0572549	.0230018	.0818886	.0778432	1.915306
Stddev	.0023007	.0023201	.0015600	.0006218	.0016656	.009262
%RSD	5.174587	4.052295	6.781869	.7592605	2.139741	.4835713
#1	.0424921	.0569262	.0244953	.0818450	.0797260	1.905067
#2	.0439037	.0551167	.0213829	.0825310	.0765618	1.923100
#3	.0469908	.0597219	.0231272	.0812898	.0772417	1.917752

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.052540	.0507245	.0464757	66.97999	.3499347	.4721124
Stddev	.016435	.0003035	.0000986	.34911	.0009299	.0010303
%RSD	.8007066	.5984121	.2120798	.5212102	.2657269	.2182369
#1	2.048425	.0507240	.0464111	66.93062	.3489243	.4714553
#2	2.070641	.0510283	.0464268	67.35115	.3507545	.4715820
#3	2.038553	.0504212	.0465892	66.65819	.3501253	.4732998

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499455	1.036893	.5343545	25.04174	.4772622	.0349049
Stddev	.0052077	.039343	.0042870	.20701	.0000202	.0004956
%RSD	2.083521	3.794342	.8022677	.8266510	.0042283	1.419785
#1	.2545422	1.023878	.5333076	24.96957	.4772579	.0354183
#2	.2510046	1.081094	.5390679	25.27517	.4772445	.0344293
#3	.2442897	1.005706	.5306880	24.88048	.4772841	.0348672

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.36617	.5031496	.4349998	F -9.83647	.0274815	.0391077
Stddev	.70362	.0107708	.0014747	.04573	.0010661	.0015688
%RSD	2.773836	2.140674	.3390006	.4649217	3.879206	4.011394
#1	26.17812	.5115045	.4362041	-9.79124	.0270120	.0388023
#2	24.98521	.5069508	.4333551	-9.88269	.0287018	.0408068
#3	24.93518	.4909937	.4354401	-9.83549	.0267309	.0377142

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-06 Acquired: 01/20/2025 13:54:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA2S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002379	6.280998	6.811619	-.001861	.0019977	.1742809
Stddev	.0003900	.008709	.027899	.000681	.0027804	.0009926
%RSD	163.9545	.1386508	.4095836	36.57389	139.1797	.5695505
#1	.0006191	6.274033	6.830149	-.002141	-.000253	.1743980
#2	-.000160	6.278200	6.825177	-.002357	.005106	.1752098
#3	.000255	6.290762	6.779532	-.001085	.001141	.1732350

Elem	Li6707
Units	ppm
Avg	.0059755
Stddev	.0016337
%RSD	27.34039
#1	.0046969
#2	.0078161
#3	.0054136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.893	40130.49	4081.286	3642.659	4123.775
Stddev	2.263	71.28	22.855	4.628	2.065
%RSD	.0600931	.1776208	.5599981	.1270626	.0500731
#1	3764.619	40178.52	4078.359	3638.998	4123.158
#2	3764.553	40048.59	4060.036	3641.117	4126.078
#3	3768.506	40164.36	4105.464	3647.861	4122.089

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-07 Acquired: 01/20/2025 13:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001935	.0114194	.0054956	-.006269	-.007043	.0322699
Stddev	.004867	.0005626	.0016156	.001057	.002032	.0192242
%RSD	251.5092	4.926775	29.39701	16.85610	28.85842	59.57320
#1	.000873	.0117463	.0073604	-.005382	-.007146	.0431141
#2	-.007556	.0107698	.0045181	-.005986	-.004961	.0100736
#3	.000876	.0117421	.0046084	-.007438	-.009021	.0436221

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1774509	.0000749	.0000663	68.02609	.1515979	.0179593
Stddev	.0022626	.0000557	.0000696	.27249	.0008533	.0006326
%RSD	1.275054	74.37881	105.0450	.4005738	.5628870	3.522307
#1	.1764875	.0000246	.0000899	67.71145	.1506137	.0186846
#2	.1800357	.0001348	-.000012	68.18543	.1520495	.0176718
#3	.1758294	.0000654	.000121	68.18140	.1521306	.0175215

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003785	.0214531	.0379227	25.31050	.0194166	.0009251
Stddev	.006512	.0106355	.0006406	.32545	.0004514	.0004294
%RSD	172.0605	49.57548	1.689288	1.285830	2.324917	46.41366
#1	-.004343	.0186612	.0372263	25.20236	.0196458	.0004639
#2	-.009999	.0332061	.0384870	25.67626	.0188965	.0009982
#3	.002988	.0124921	.0380547	25.05289	.0197073	.0013133

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.91669	-.006238	.0000138	F -9.80403	.0289287	.0401407
Stddev	.73187	.002263	.0088755	.19919	.0017253	.0009671
%RSD	2.823933	36.28419	64447.81	2.031761	5.963847	2.409280
#1	25.09159	-.008807	.0049627	-9.85040	.0269442	.0410759
#2	26.48750	-.004541	-.010233	-9.58574	.0300728	.0402015
#3	26.17097	-.005364	.005311	-9.97595	.0297690	.0391446

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: Q1085-07 Acquired: 01/20/2025 13:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: MC0BA4 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003983	6.384765	6.928991	-.001342	.0002627	.1775862
Stddev	.0003775	.008980	.069352	.000629	.0018692	.0011132
%RSD	94.78142	.1406445	1.000890	46.89993	711.6817	.6268649
#1	.0007893	6.377443	6.902081	-.001354	-.001620	.1765476
#2	.0000359	6.394784	7.007765	-.001965	.000290	.1787614
#3	.0003697	6.382067	6.877128	-.000707	.002118	.1774496

Elem	Li6707
Units	ppm
Avg	.0066240
Stddev	.0023503
%RSD	35.48087
#1	.0042819
#2	.0089824
#3	.0066078

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3724.416	39957.29	4063.026	3649.831	4106.969
Stddev	23.736	188.47	22.665	15.579	18.106
%RSD	.6373004	.4716838	.5578370	.4268349	.4408670
#1	3728.061	40057.00	4066.786	3653.937	4110.640
#2	3699.069	40074.96	4038.716	3662.945	4087.309
#3	3746.119	39739.91	4083.575	3632.610	4122.959

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: PB166077BL Acquired: 01/20/2025 14:01:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051475	-.000170	.0009747	-.000026	-.001183	.0015410	.0116168
Stddev	.0010142	.000994	.0022313	.001036	.001756	.0276222	.0012019
%RSD	19.70252	586.2364	228.9189	3962.972	148.3669	1792.485	10.34654
#1	.0048552	-.001174	-.001061	-.000279	.000214	-.001370	.0118334
#2	.0062758	.000814	.000625	-.000912	-.003154	-.024511	.0126958
#3	.0043116	-.000149	.003360	.001113	-.000610	.030503	.0103213

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000097	.0000979	.0126497	.0001322	.0003911	.0022925	.0134229
Stddev	.0001421	.0000336	.0189858	.0008318	.0001879	.0039258	.0090151
%RSD	1470.525	34.32988	150.0895	628.9919	48.04562	171.2427	67.16188
#1	.0001736	.0001349	.0022662	.0007027	.0001894	.0011014	.0233179
#2	-.000078	.0000693	.0345626	-.000822	.0004227	-.000900	.0056758
#3	-.000066	.0000895	.0011202	.000516	.0005613	.006676	.0112750

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000909	.0333882	-.000111	.0005015	1.120046	-.002919	-.004798
Stddev	.0007266	.0477070	.000086	.0007485	.566974	.005908	.002996
%RSD	799.2909	142.8858	77.04603	149.2451	50.62061	202.3697	62.42876
#1	-.000220	.0125398	-.000020	.0004257	.864004	.003440	-.008107
#2	.000921	-.000346	-.000190	.0012851	.726251	-.003960	-.004020
#3	-.000429	.087971	-.000123	-.000206	1.769883	-.008238	-.002269

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4231241	-.001510	-.005511	-.000136	.0151888	-.002271	-.000707
Stddev	.0842904	.000849	.001599	.000193	.0040558	.000534	.000402
%RSD	19.92096	56.24241	29.02191	142.0614	26.70280	23.51925	56.96435
#1	.4178830	-.002197	-.003680	-.000347	.0189310	-.001703	-.001170
#2	.3415766	-.000561	-.006219	-.000090	.0157563	-.002344	-.000441
#3	.5099128	-.001772	-.006635	.000030	.0108791	-.002764	-.000509

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: PB166077BL Acquired: 01/20/2025 14:01:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: PBW077 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	.0009794	-.000214	.0096946
Stddev	.0007636	.000102	.0036936
%RSD	77.96257	47.67020	38.09952
#1	.0005956	-.000308	.0076478
#2	.0004838	-.000105	.0139584
#3	.0018587	-.000230	.0074775

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3578.711	38927.75	3902.385	3515.401	4128.108
Stddev	9.995	296.91	8.371	7.678	9.356
%RSD	.2793030	.7627185	.2145020	.2183978	.2266351
#1	3589.421	38600.40	3905.824	3519.208	4137.340
#2	3577.082	39179.67	3908.489	3520.431	4128.351
#3	3569.630	39003.19	3892.843	3506.564	4118.633

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: PB166077BS Acquired: 01/20/2025 14:05:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCS077 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234841	.0513792	.0186697	.0560015	.0996588	.4185961
Stddev	.0024549	.0022078	.0012721	.0016282	.0021295	.0432223
%RSD	10.45335	4.297028	6.813569	2.907415	2.136769	10.32554
#1	.0248526	.0493135	.0201023	.0565797	.0973128	.3798251
#2	.0206501	.0537059	.0182344	.0541631	.1001937	.4651988
#3	.0249498	.0511181	.0176724	.0572616	.1014698	.4107644

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4042178	.0101661	.0094962	10.29321	.0200944	.0989652
Stddev	.0056127	.0000845	.0000441	.10974	.0007171	.0003685
%RSD	1.388522	.8313982	.4648199	1.066166	3.568919	.3723445
#1	.4083113	.0101384	.0095136	10.31681	.0201850	.0987897
#2	.3978197	.0100989	.0095289	10.17359	.0193362	.0987172
#3	.4065225	.0102610	.0094460	10.38923	.0207619	.0993886

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531430	.2110572	.0311246	10.14436	.0752564	.0194646
Stddev	.0058822	.0286868	.0001413	.08214	.0004539	.0002053
%RSD	11.06859	13.59193	.4539504	.8096679	.6031213	1.054548
#1	.0578587	.1984620	.0311892	10.15683	.0756903	.0196400
#2	.0465518	.2438869	.0312220	10.05671	.0747849	.0195150
#3	.0550186	.1908227	.0309625	10.21956	.0752941	.0192388

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.80303	.1043667	.1121652	10.28068	.0155932	F -.004193
Stddev	.22868	.0016556	.0049691	.28123	.0012131	.001395
%RSD	2.116814	1.586315	4.430132	2.735482	7.779327	33.28129
#1	10.58070	.1062003	.1133349	10.51418	.0147932	-.003419
#2	10.79080	.1039182	.1067157	9.96849	.0149976	-.005803
#3	11.03757	.1029815	.1164451	10.35937	.0169890	-.003355

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: PB166077BS Acquired: 01/20/2025 14:05:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: LCS077 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185847	.1697696	F .5147338	.0133305	.2000445	.1918310
Stddev	.0000550	.0006044	.0047826	.0011057	.0026811	.0015241
%RSD	.2957595	.3560065	.9291483	8.294583	1.340254	.7945204
#1	.0186475	.1700002	.5184236	.0134570	.2021966	.1925560
#2	.0185611	.1690839	.5093305	.0143675	.1970411	.1900797
#3	.0185455	.1702248	.5164475	.0121669	.2008958	.1928573

Elem	Li6707
Units	ppm
Avg	F .0392680
Stddev	.0052881
%RSD	13.46677
#1	.0452486
#2	.0352106
#3	.0373449

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3527.098	37937.14	3840.095	3442.206	3912.495
Stddev	10.542	82.77	14.819	12.727	6.824
%RSD	.2988939	.2181896	.3859077	.3697245	.1744105
#1	3538.786	37942.04	3826.344	3435.934	3919.858
#2	3518.307	37852.02	3855.791	3433.832	3911.243
#3	3524.201	38017.35	3838.150	3456.851	3906.384

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCV002 Acquired: 01/20/2025 14:09:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.820612	4.817116	24.62681	4.991979	4.978567	407.7553	10.01053
Stddev	.004305	.007836	.02968	.014031	.012255	1.7855	.04052
%RSD	.0893107	.1626789	.1205070	.2810652	.2461595	.4378744	.4047830
#1	4.822637	4.826071	24.65997	4.995203	4.966740	408.4129	10.03542
#2	4.823532	4.811514	24.61772	4.976617	4.977750	409.1188	10.03241
#3	4.815668	4.813764	24.60274	5.004117	4.991210	405.7344	9.96378

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4957411	2.480595	401.2849	15.02145	2.484834	15.05763	405.8946
Stddev	.0045708	.004669	1.0370	.59875	.005045	.05986	1.3878
%RSD	.9220080	.1882073	.2584173	3.985950	.2030320	.3975087	.3419135
#1	.4983131	2.485651	402.0674	15.17084	2.489846	15.11390	406.8795
#2	.4904638	2.479686	401.6787	14.36215	2.484899	15.06423	406.4970
#3	.4984465	2.476448	400.1087	15.53135	2.479756	14.99474	404.3074

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.03739	401.6655	2.474195	1.266779	407.4235	2.543168	15.10982
Stddev	.06345	1.2474	.004606	.045011	1.4876	.010042	.49013
%RSD	.4219597	.3105482	.1861595	3.553182	.3651310	.3948704	3.243791
#1	15.06778	401.5791	2.479366	1.276795	407.7531	2.554655	15.15165
#2	15.07993	402.9538	2.472685	1.217604	408.7187	2.536056	14.60011
#3	14.96446	400.4636	2.470533	1.305939	405.7987	2.538792	15.57770

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.1126	4.945295	4.780224	4.924352	4.909034	4.786199	4.988014
Stddev	.6540	.007232	.026040	.013008	.005899	.032201	.018208
%RSD	.4271427	.1462488	.5447382	.2641629	.1201576	.6727976	.3650332
#1	153.4151	4.951215	4.793403	4.928244	4.903821	4.806573	5.005875
#2	153.5605	4.937234	4.750229	4.909842	4.907843	4.749075	4.988690
#3	152.3621	4.947437	4.797039	4.934970	4.915437	4.802949	4.969478

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCV002 Acquired: 01/20/2025 14:09:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Sr4077	Li6707
Units	ppm	ppm	ppm
Avg	5.046544	4.803215	5.023705
Stddev	.030432	.009922	.019224
%RSD	.6030199	.2065758	.3826691
#1	5.046397	4.814372	5.033288
#2	5.077048	4.795380	5.036255
#3	5.016186	4.799893	5.001573

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2832.482	32770.79	3699.359	2852.721	3083.290
Stddev	4.560	1127.43	16.423	103.997	6.519
%RSD	.1609831	3.440353	.4439283	3.645525	.2114329
#1	2833.086	32402.17	3680.965	2833.122	3079.051
#2	2836.710	34036.39	3712.548	2965.123	3080.023
#3	2827.651	31873.81	3704.566	2759.919	3090.797

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCB002 Acquired: 01/20/2025 14:13:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035628	.0011192	-.000459	.0001896	-.000735	.0129739
Stddev	.0035503	.0008160	.000778	.0021924	.001450	.0142930
%RSD	99.64811	72.90684	169.2481	1156.075	197.3668	110.1669
#1	.0060465	.0002020	-.001348	-.001738	-.001975	.0148220
#2	-.000504	.0017647	-.000125	-.000268	.000860	-.002153
#3	.005145	.0013910	.000095	.002575	-.001089	.026253

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091006	-.000032	-.000010	.0193020	.0007293	.0002277
Stddev	.0022989	.000170	.000041	.0108617	.0003138	.0001584
%RSD	25.26041	540.3819	404.0449	56.27229	43.03405	69.55707
#1	.0096472	.000161	.000007	.0067655	.0009510	.0000462
#2	.0065778	-.000164	.000020	.0258914	.0003702	.0003381
#3	.0110769	-.000091	-.000058	.0252492	.0008667	.0002988

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015348	.0277582	.0005402	.0345745	-.000213	.0009541
Stddev	.0042023	.0342741	.0011474	.0642627	.000050	.0008937
%RSD	273.7984	123.4736	212.4243	185.8673	23.70625	93.66295
#1	-.003270	.0661963	-.000154	.0976692	-.000200	.0013023
#2	.004526	.0003783	-.000090	.0368499	-.000170	.0016213
#3	.003348	.0167001	.001865	-.030796	-.000268	-.000061

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.261103	-.002429	-.005528	.6341385	.0004696	.0032723
Stddev	.436802	.005467	.001509	.0360318	.0012133	.0020471
%RSD	34.63654	225.0904	27.29159	5.682005	258.3772	62.55816
#1	1.455199	-.008420	-.006911	.6711716	-.000353	.0056229
#2	1.567220	.002290	-.003919	.5991994	.001863	.0023137
#3	.760891	-.001156	-.005754	.6320445	-.000101	.0018804

Reviewed By:Mohan
On:1/21/2025 6:55:20 AM
Inst Id :P5

Sample Name: CCB002 Acquired: 01/20/2025 14:13:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005002	.0025513	-.001634	-.000518	.0022854	.0000491
Stddev	.0002573	.0010046	.001124	.000781	.0025660	.0003891
%RSD	51.44271	39.37486	68.78741	150.8124	112.2749	792.6827
#1	.0007691	.0027234	-.002493	-.001297	.0018853	-.000128
#2	.0002563	.0034586	-.002048	-.000521	.0050279	-.000220
#3	.0004752	.0014718	-.000362	.000264	-.000057	.000495

Elem	Li6707
Units	ppm
Avg	F .0182874
Stddev	.0032206
%RSD	17.61128
#1	.0170427
#2	.0219447
#3	.0158749

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3553.228	38540.35	3827.206	3473.441	4095.693
Stddev	13.805	106.93	18.878	19.780	13.932
%RSD	.3885230	.2774544	.4932523	.5694719	.3401744
#1	3568.883	38425.84	3805.540	3468.602	4110.933
#2	3542.799	38557.61	3835.961	3456.530	4083.609
#3	3548.001	38637.60	3840.116	3495.192	4092.537

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

Prep Standard - Chemical Standard Summary

Order ID : Q1085

Test : Metals CLP4

Prepbatch ID : PB166077,

Sequence ID/Qc Batch ID: LB134352,

Standard ID :
MP83499,MP83500,MP83935,MP84041,MP84058,MP84059,MP84060,MP84061,MP84062,MP84063,MP84064,MP84065,MP84066,MP84067,MP84068,MP84070,MP84071,MP84072,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5296,M5298,M5393,M5429,M5472,M5476,M5496,M5497,M5513,M5516,M5519,M5565,M5658,M5697,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5819,M5820,M5875,M5942,M5959,M5961,M5962,M5970,M5976,M5985,M5990,M6021,M6023,M6025,M6028,M6030,M6032,M6121,M6126,M6127,M6128,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83499	12/09/2024	01/30/2025	Eman Mughal	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
514	CAL BLK (S0/ICB/CCB)	MP83935	01/07/2025	02/07/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/09/2025

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP84058	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5497 + 4.00000ml of M5806 + 4.00000ml of M6127 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP84059	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5806 + 12.50000ml of M5819 + 12.50000ml of M6128 + 13.75000ml of M5697 + 14.50000ml of M5298 + 14.50000ml of M5496 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M6127 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5875 + 303.50000ml of MP83500 = 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
1005	ICPAES ISM01.2(S4)	MP84060	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 250.00000ml of MP83500 + 250.00000ml of MP84059 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP84061	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of MP84059 + 75.00000ml of MP83500 = 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
1008	ICPAES ISM01.2(S2)	MP84062	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 12.50000ml of MP84059 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP84063	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M5806 + 10.00000ml of M6127 + 2.00000ml of M5942 + 4.00000ml of M6032 + 34.24000ml of MP83500 = 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
1003	ICPAES ISM01.2 S1	MP84064	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.50000ml of MP84063 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2054	ICV-ICPAES	MP84065	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.50000ml of M5218 + 0.50000ml of M5472 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 10.00000ml of M5295 + 87.50000ml of MP83500 = 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
904	ICP AES ICSA SOLN	MP84066	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of M5130 + 225.00000ml of MP83500 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP84067	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP83500 = 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
1119	ICPAES ISM01.2(CCV)	MP84068	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.75000ml of M5497 + 0.75000ml of M6127 + 1.22500ml of M5496 + 1.25000ml of M5298 + 1.25000ml of M5516 + 19.77500ml of MP83500 + 25.00000ml of MP84059 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP84070	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 2.50000ml of M5962 + 50.00000ml of M5565 + 50.00000ml of M5990 + 147.50000ml of MP83500 = 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
919	ICP AES INTERNAL STD	MP84071	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP84072	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5130

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	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	01/31/2025	05/20/2024 / jaswal	04/20/2021 / bin	M5223

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

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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	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

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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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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 #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

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 #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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.	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-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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 #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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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:	CLPP-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Selenium, Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

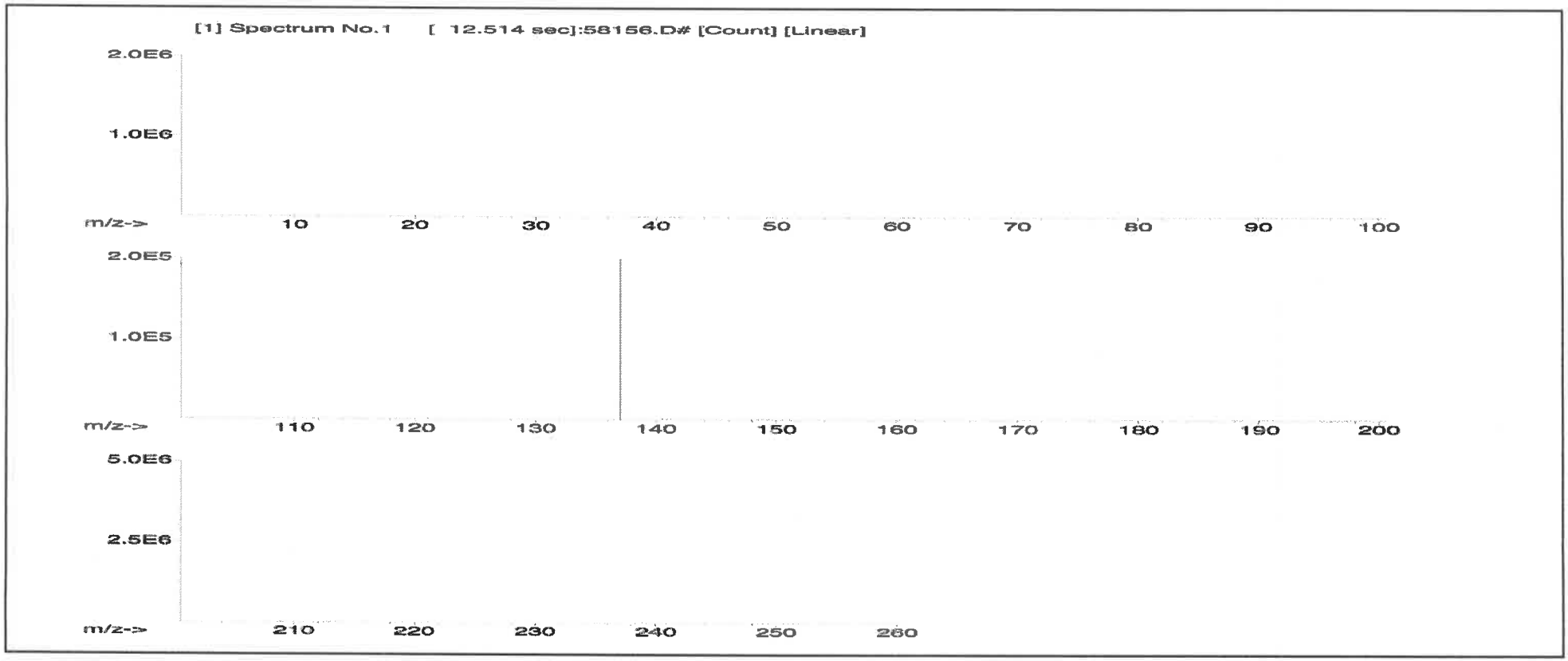
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R 8/15/24

M6028

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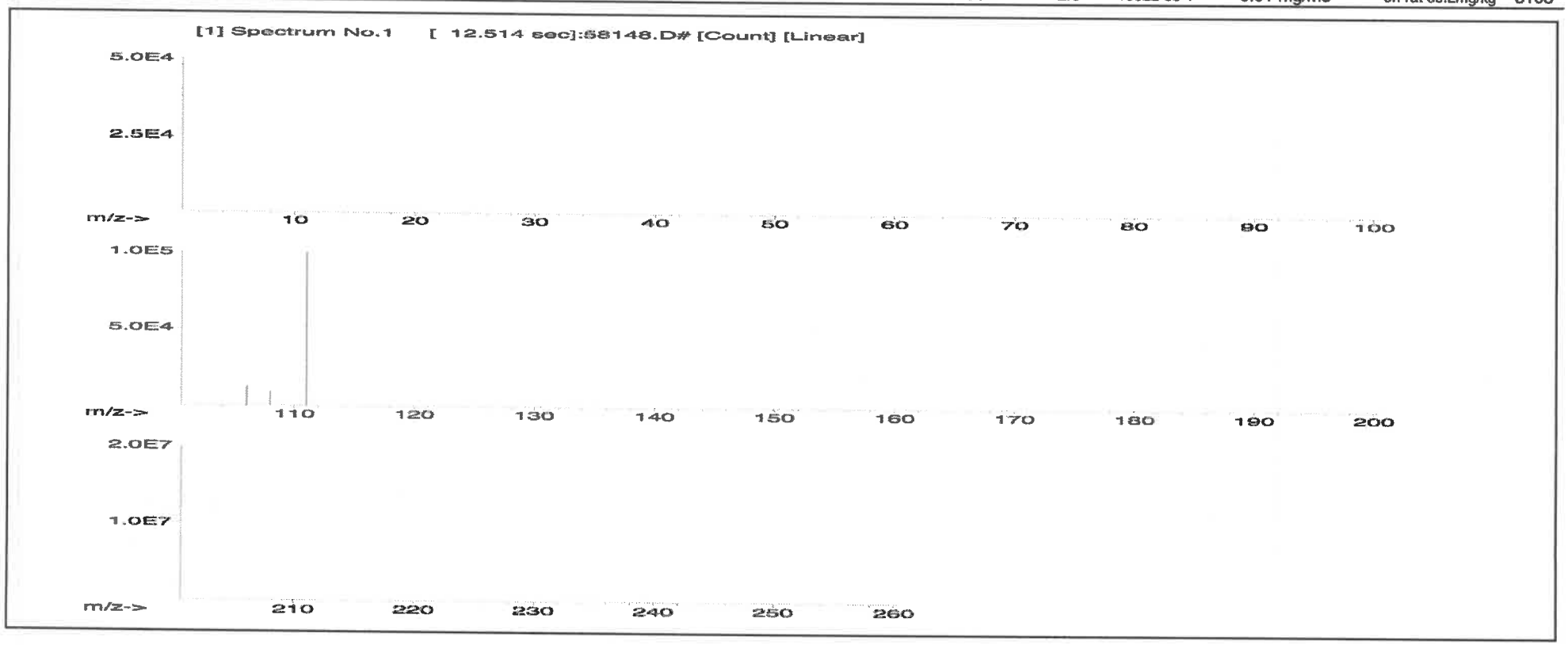
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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).

M5296 OP: 09/19/2022 BH

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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:	S2-MEB711673
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 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

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

November 02, 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

- **November 02, 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



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:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 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
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
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
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

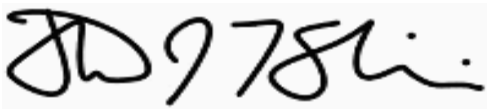
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

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**

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

January 13, 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

- **January 13, 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

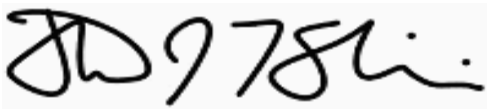
- Sealed TCT Bag Open Date: _____

- 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

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

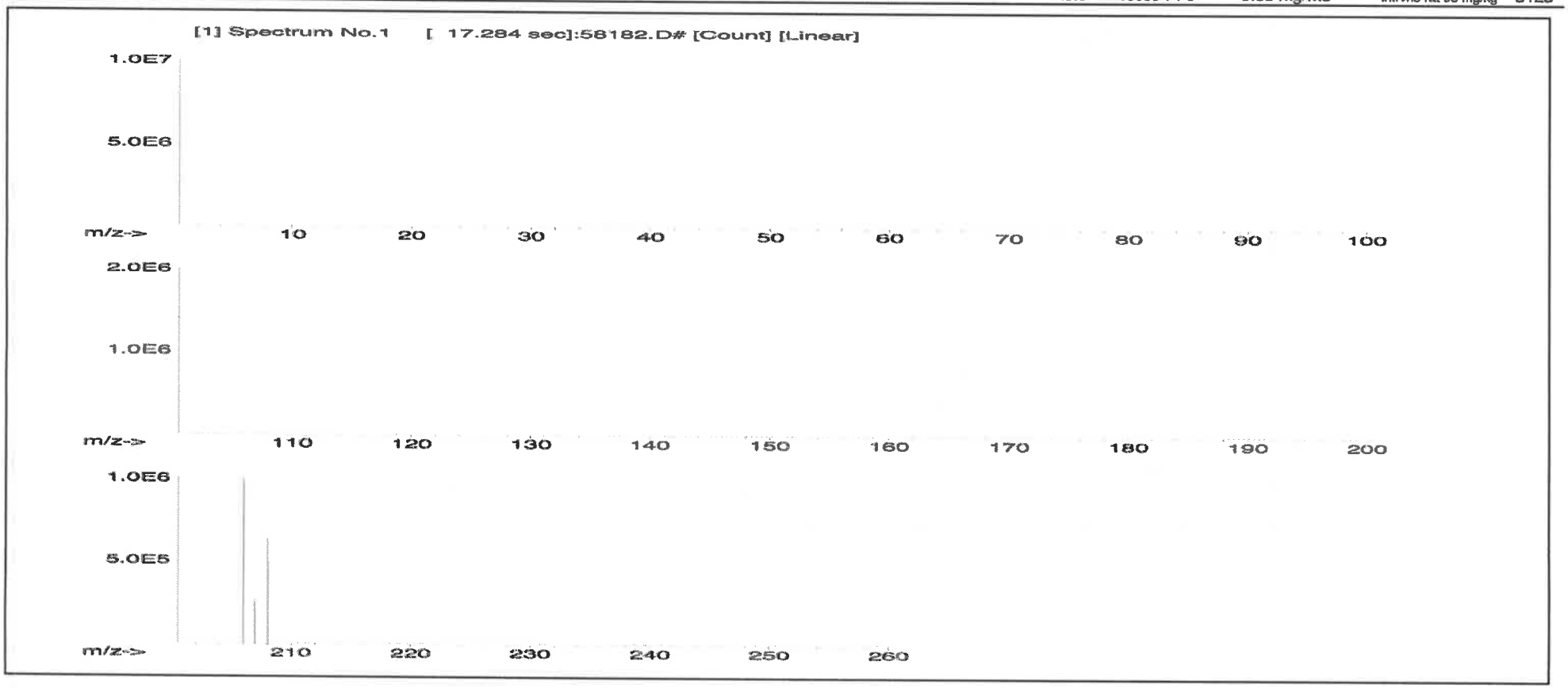
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (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 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. 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 ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 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.

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:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 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	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

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

November 02, 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

- **November 02, 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





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (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 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. 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 ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 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

M5289 R: 07/12/22 BH

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

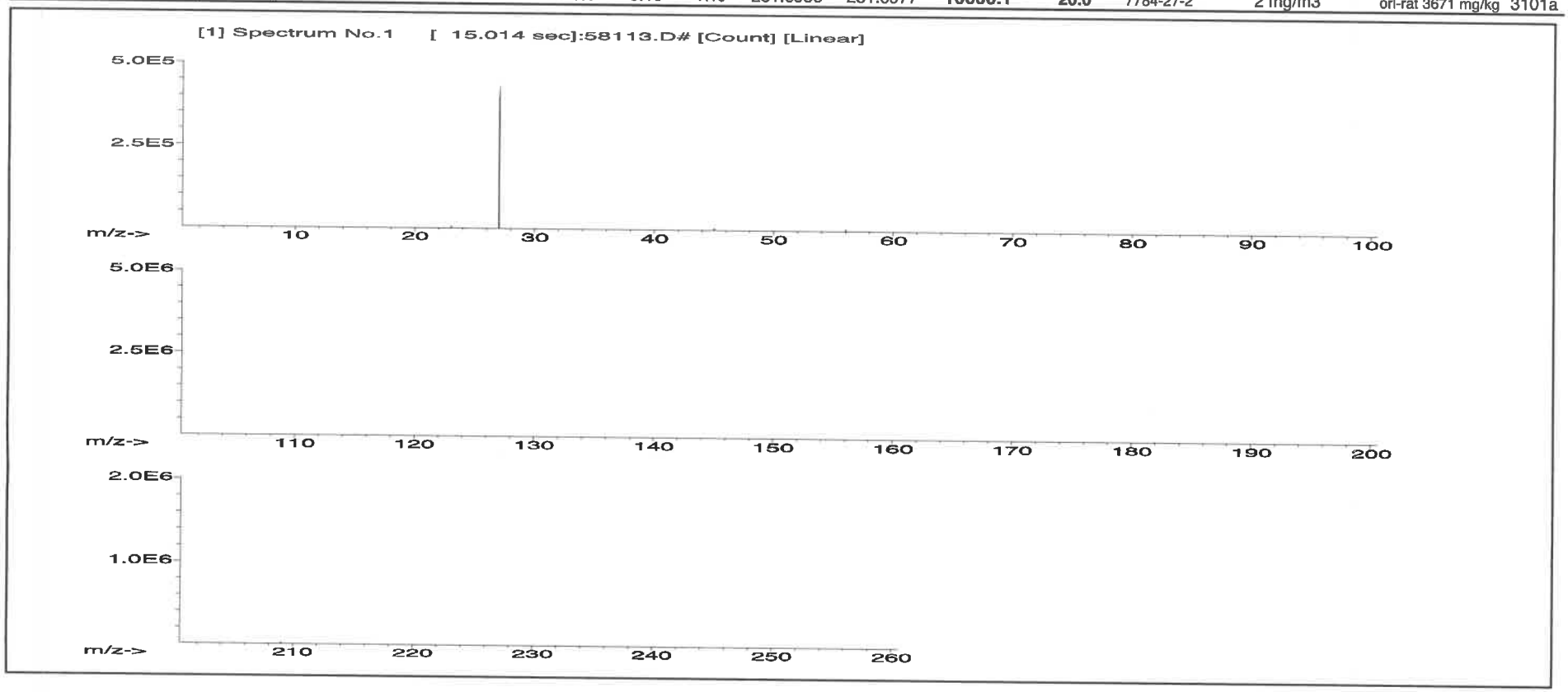
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
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:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

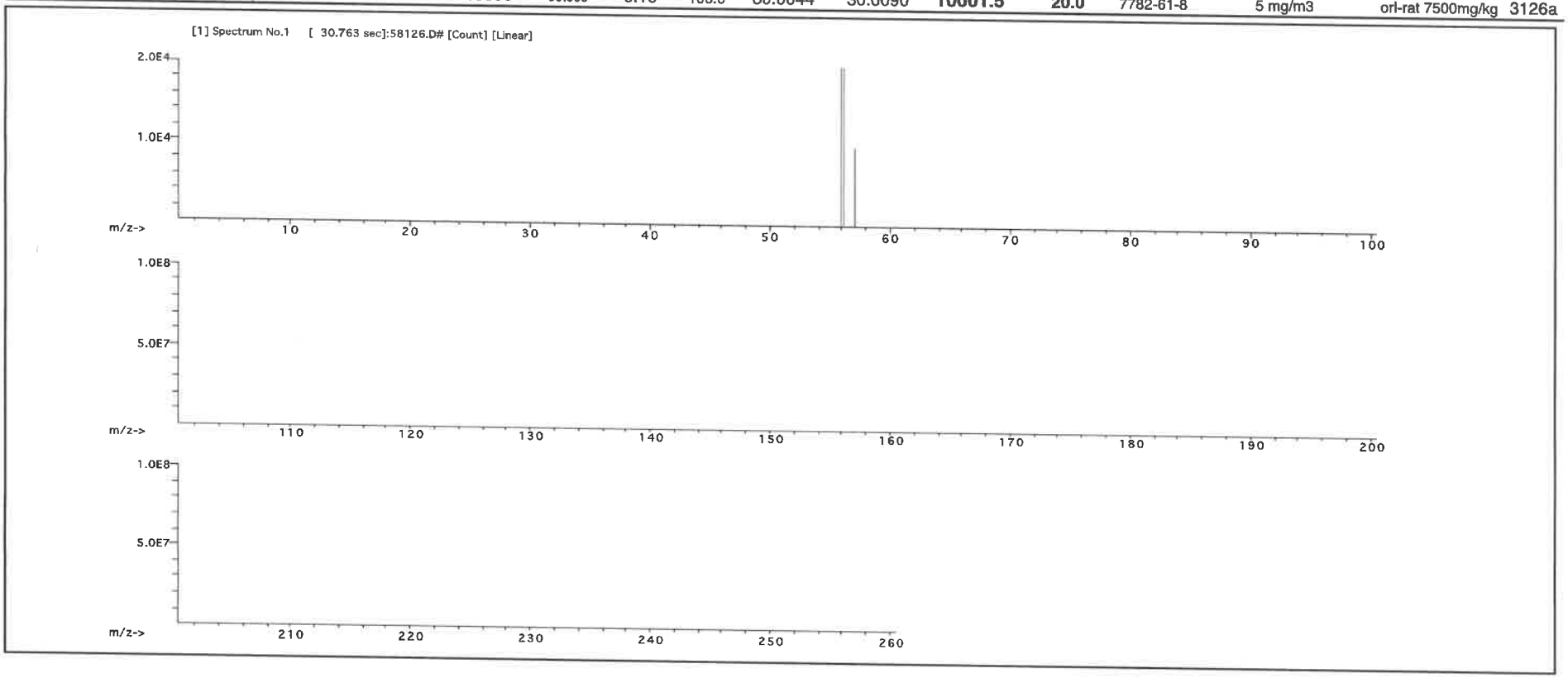
	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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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	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* 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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M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

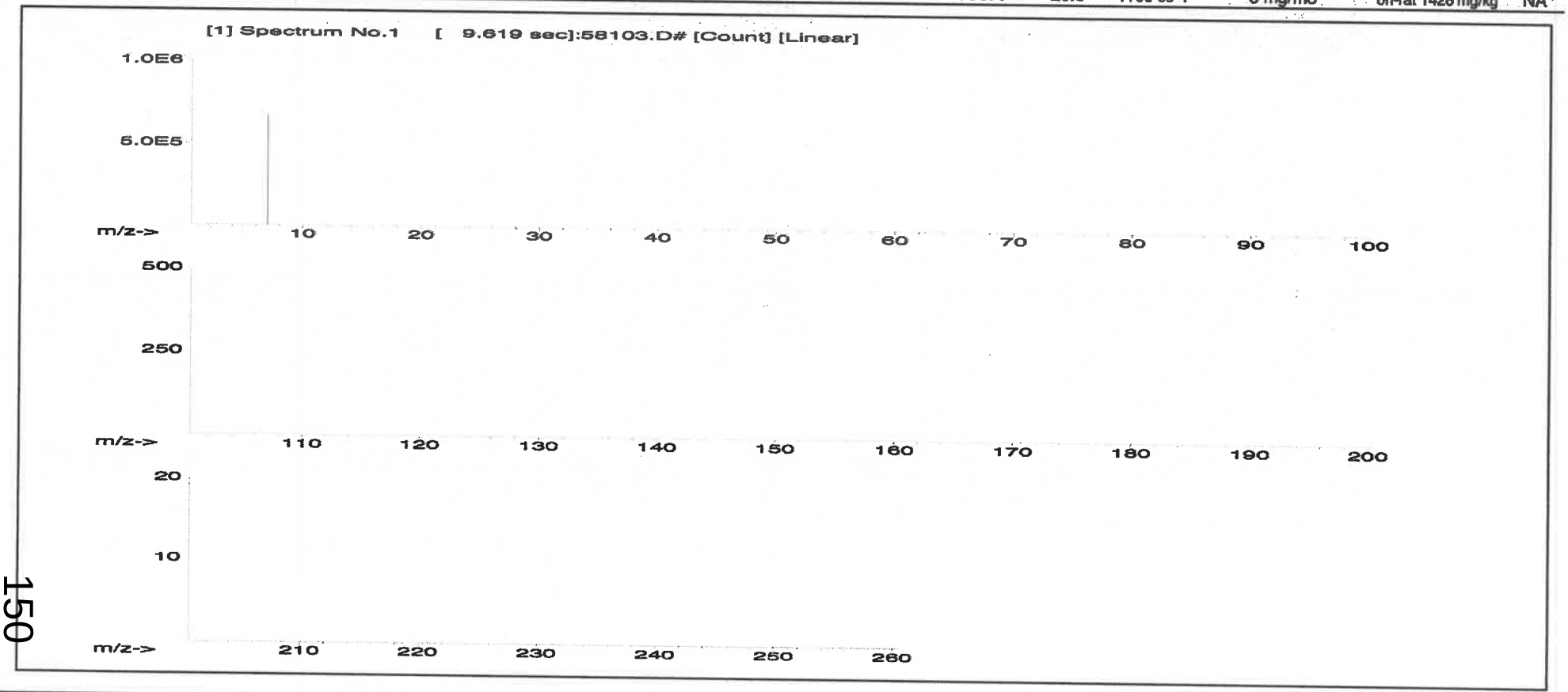
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #			
Solvent:	20510011	Nitric Acid		
2%	20.0 (mL)	Nitric Acid		

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



150

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	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

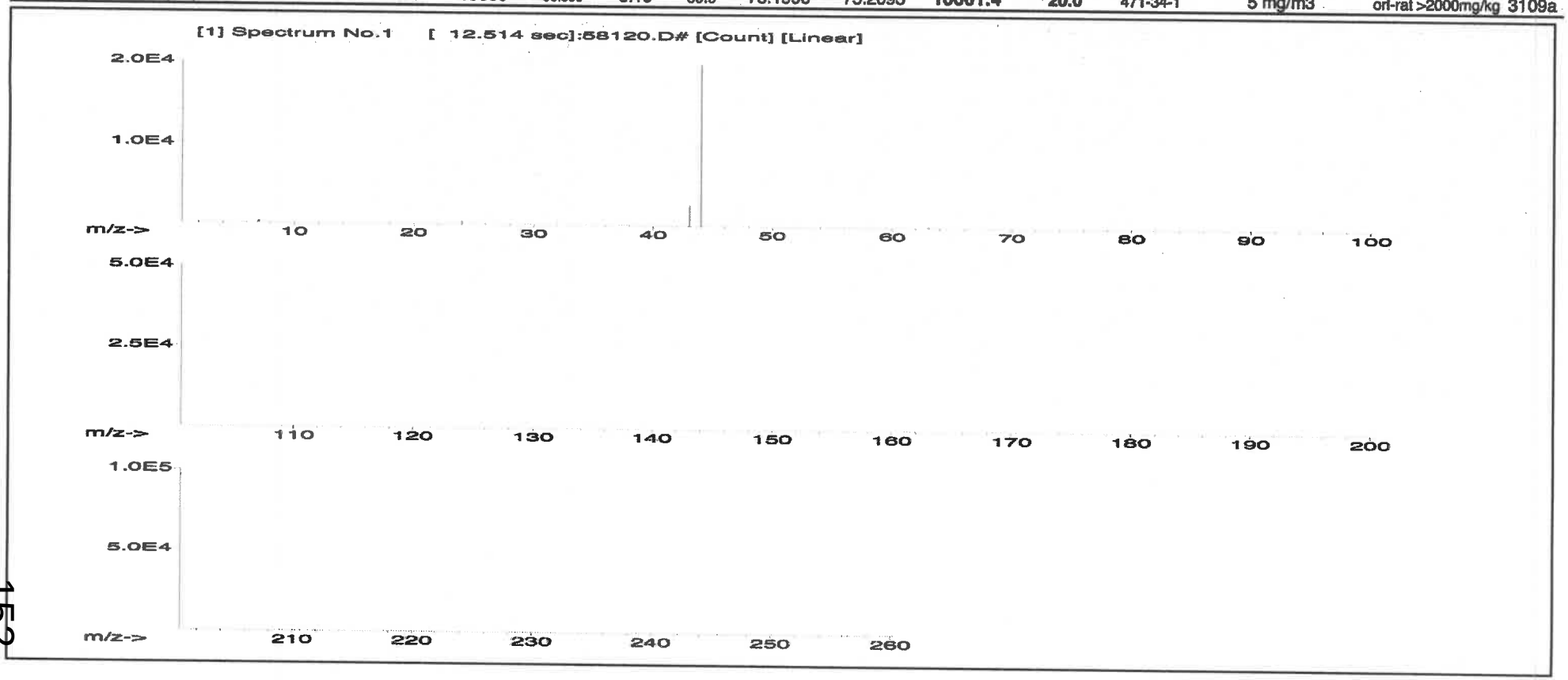
Giovanni Esposito

Formulated By: Giovanni Esposito 031523

Pedro Rentas

Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



152

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MS513 R:03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

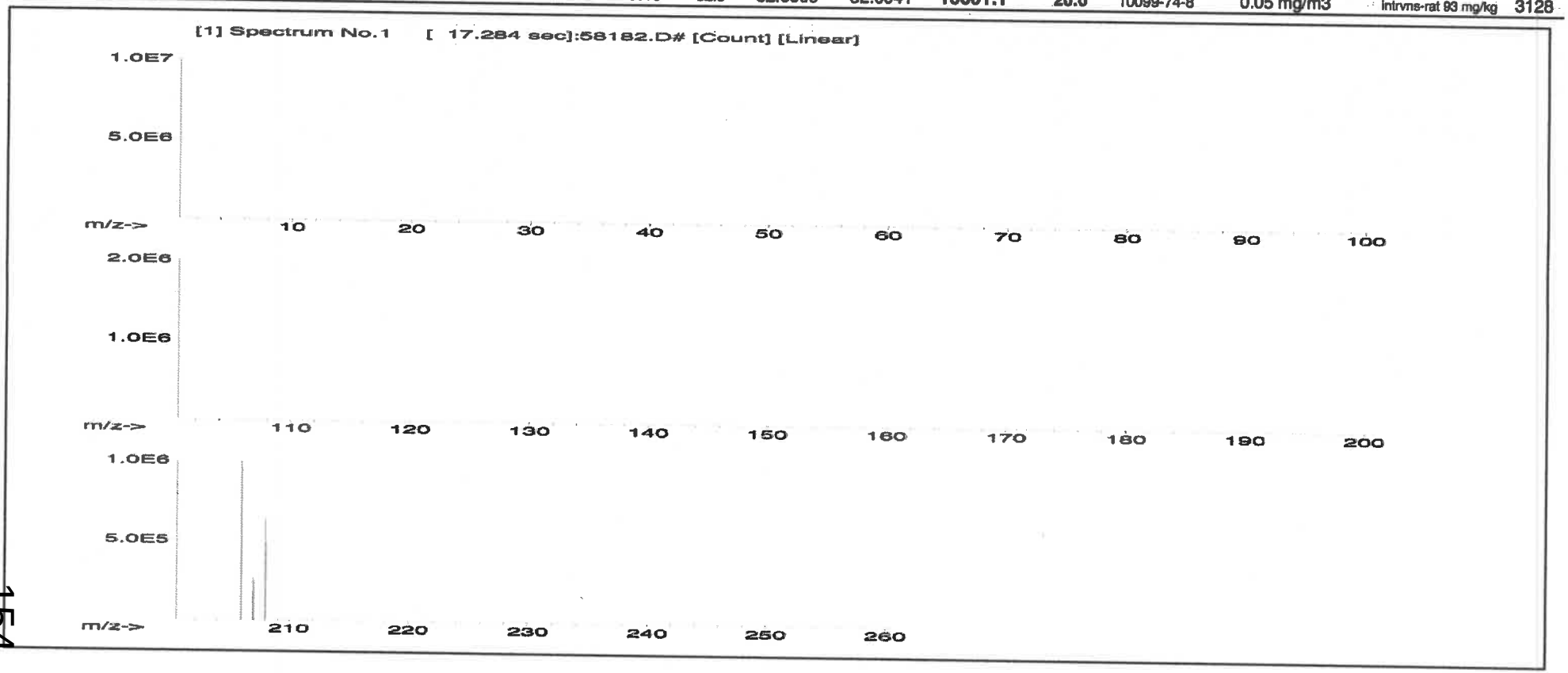
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



154

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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M516 M517 R: 03/17/22 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

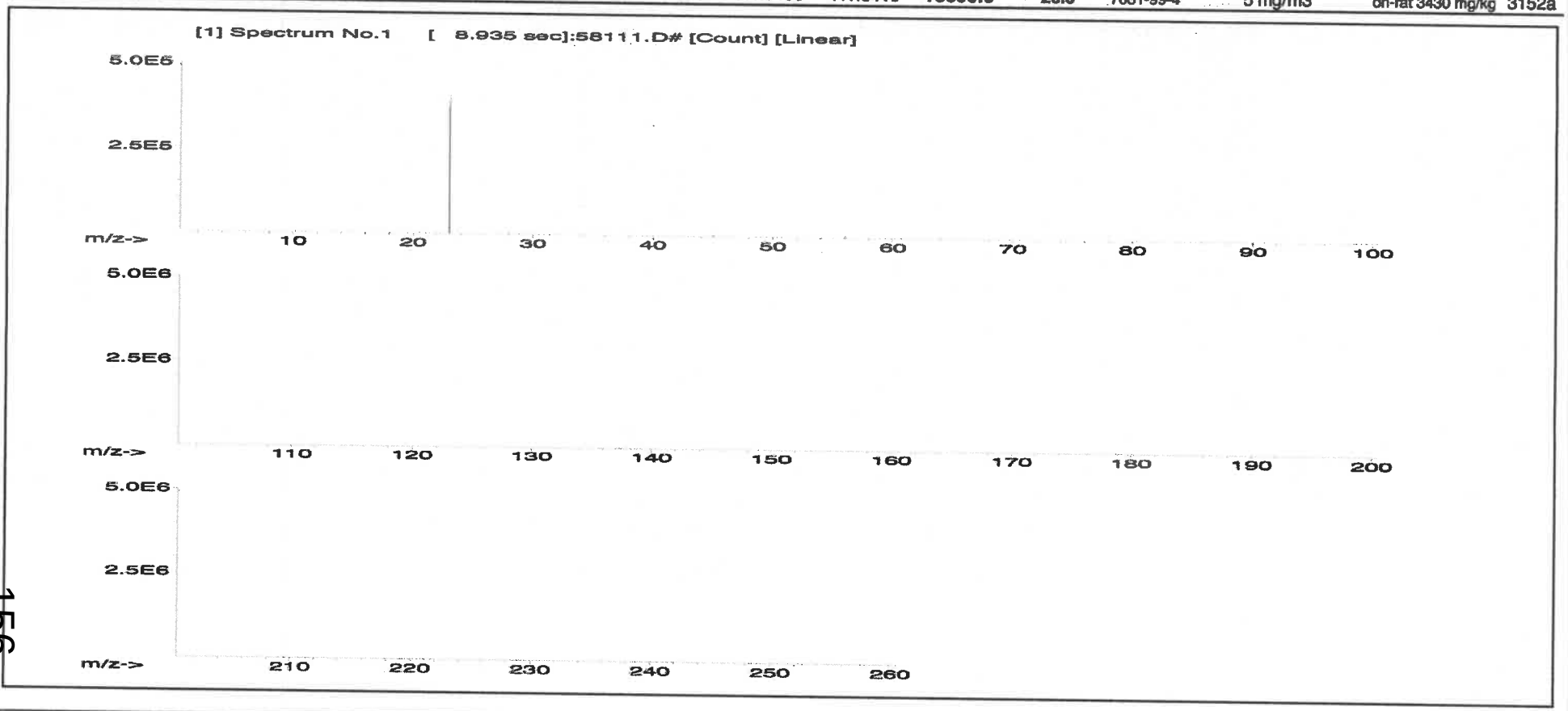
Expiration Date: 022126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	022123
Reviewed By:	Pedro L. Rentas	022123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5410	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



156

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5519. M5520 (BH) R:03/17/23

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CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**58119**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**120822**			
Description:	**Potassium (K)**	2%	60.0 (mL)	Nitric Acid
Expiration Date:	120825			
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):	3000.4	0.06	Flask Uncertainty	

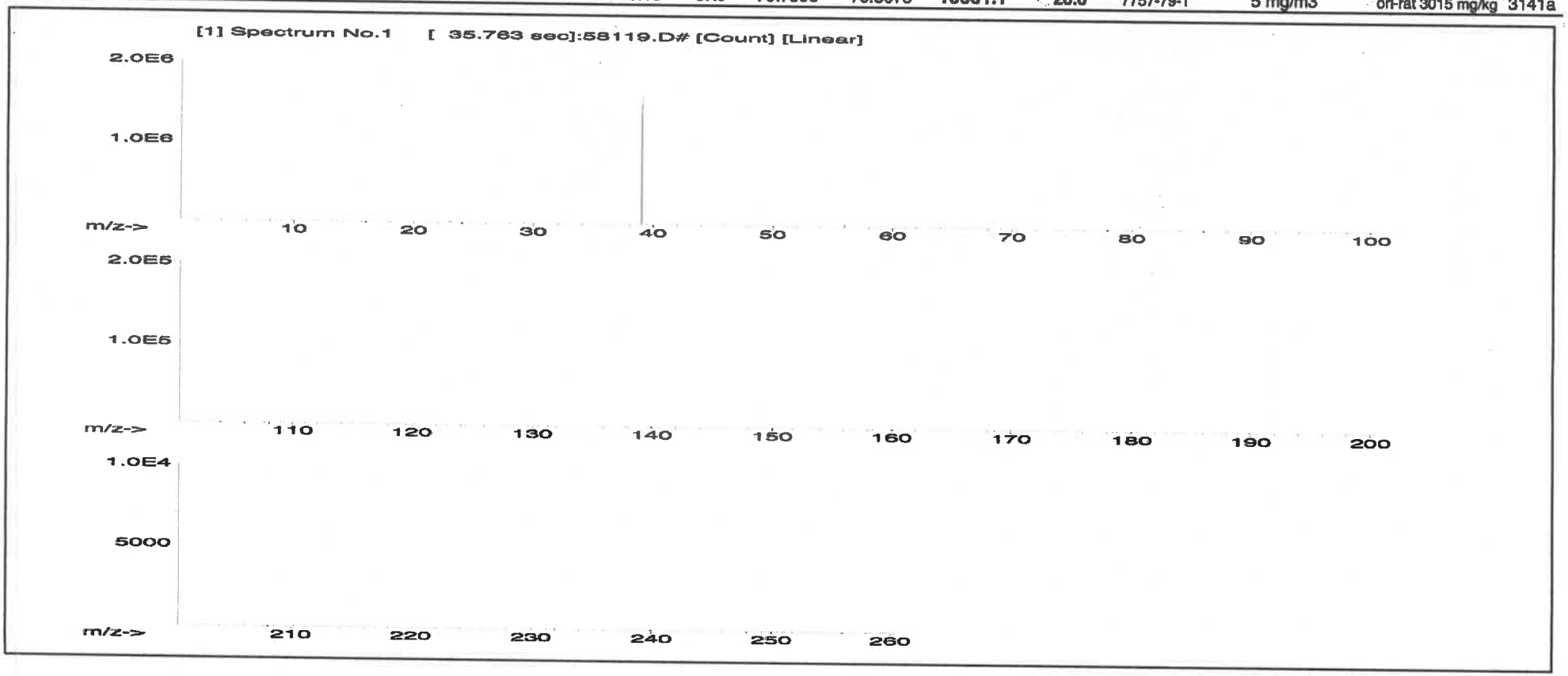
Giovanni Esposito

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



159

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium,
	1 000 µg/mL ea: Iron,
	500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,
	250 µg/mL ea: Copper,
	200 µg/mL ea: Chromium,
	50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method I with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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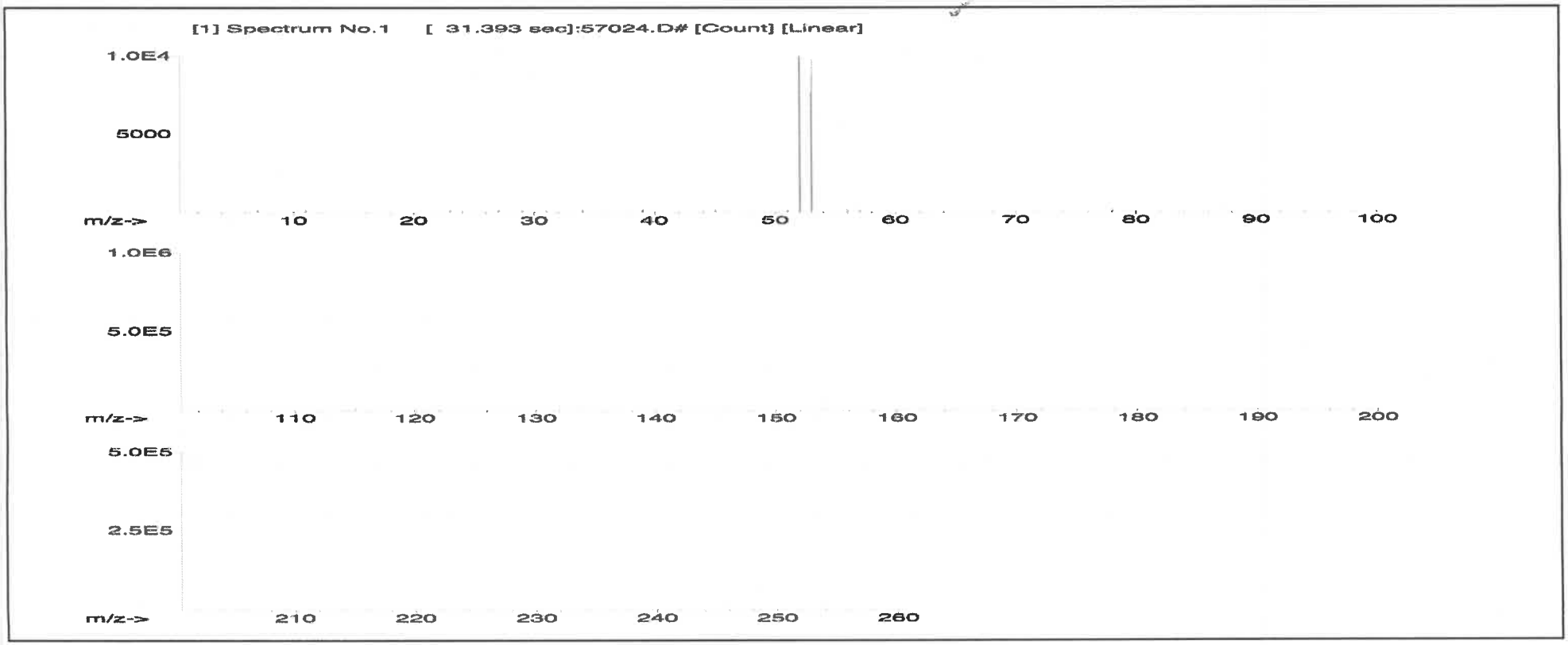
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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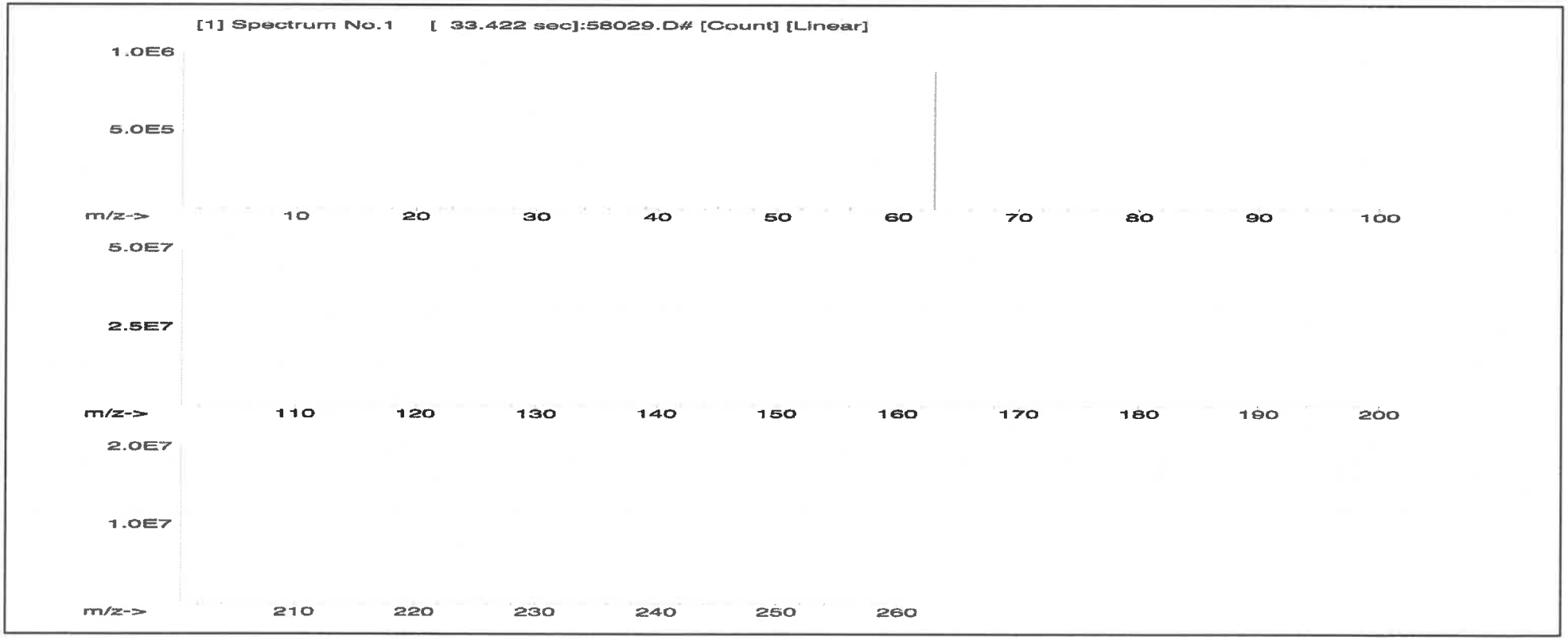
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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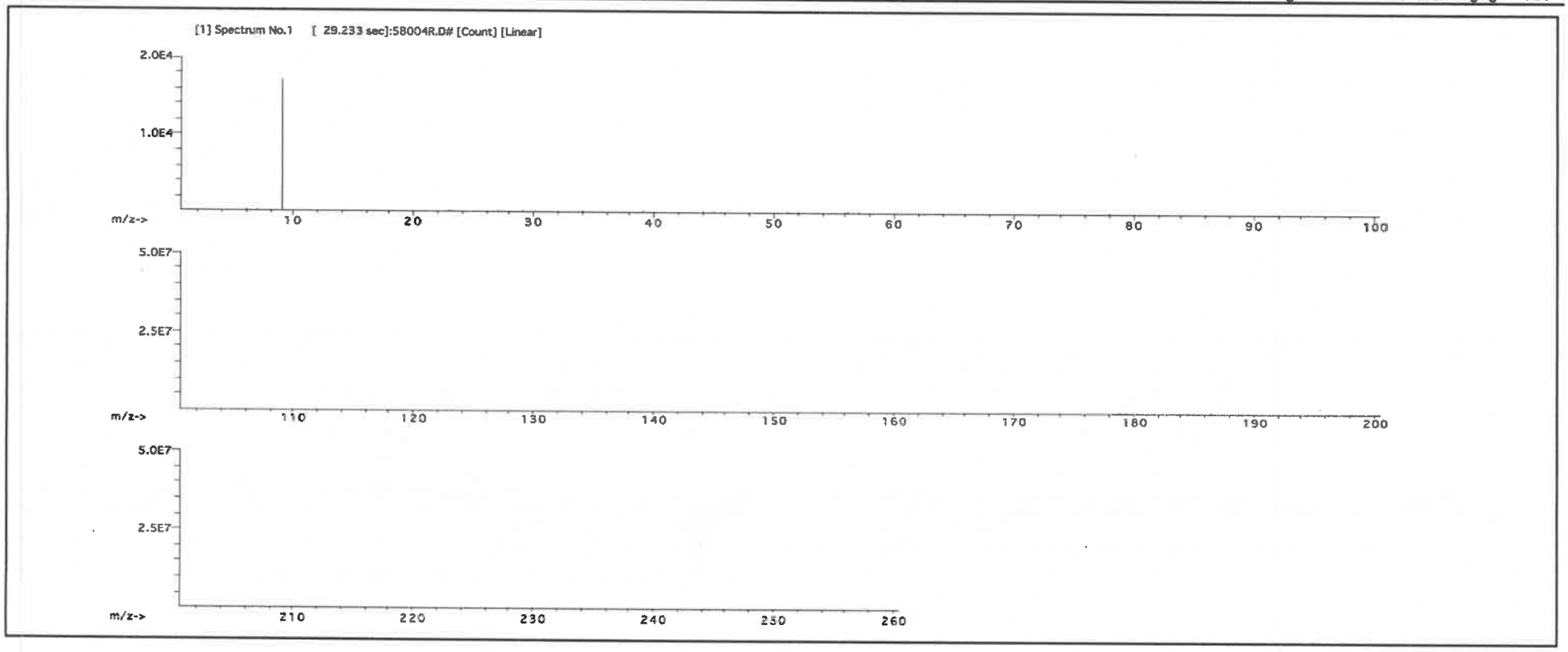
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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: 57050
Lot Number: 071123
Description: Tin (Sn)

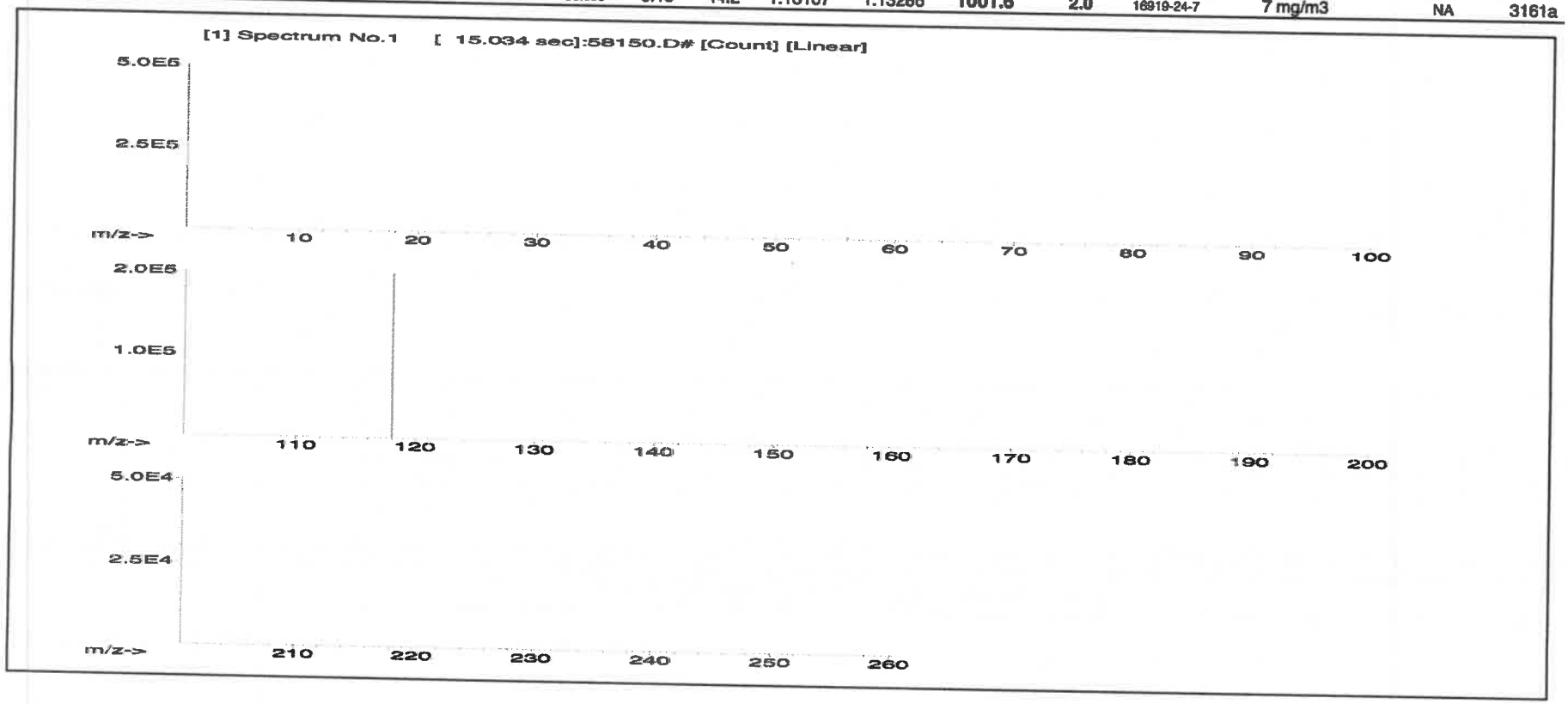
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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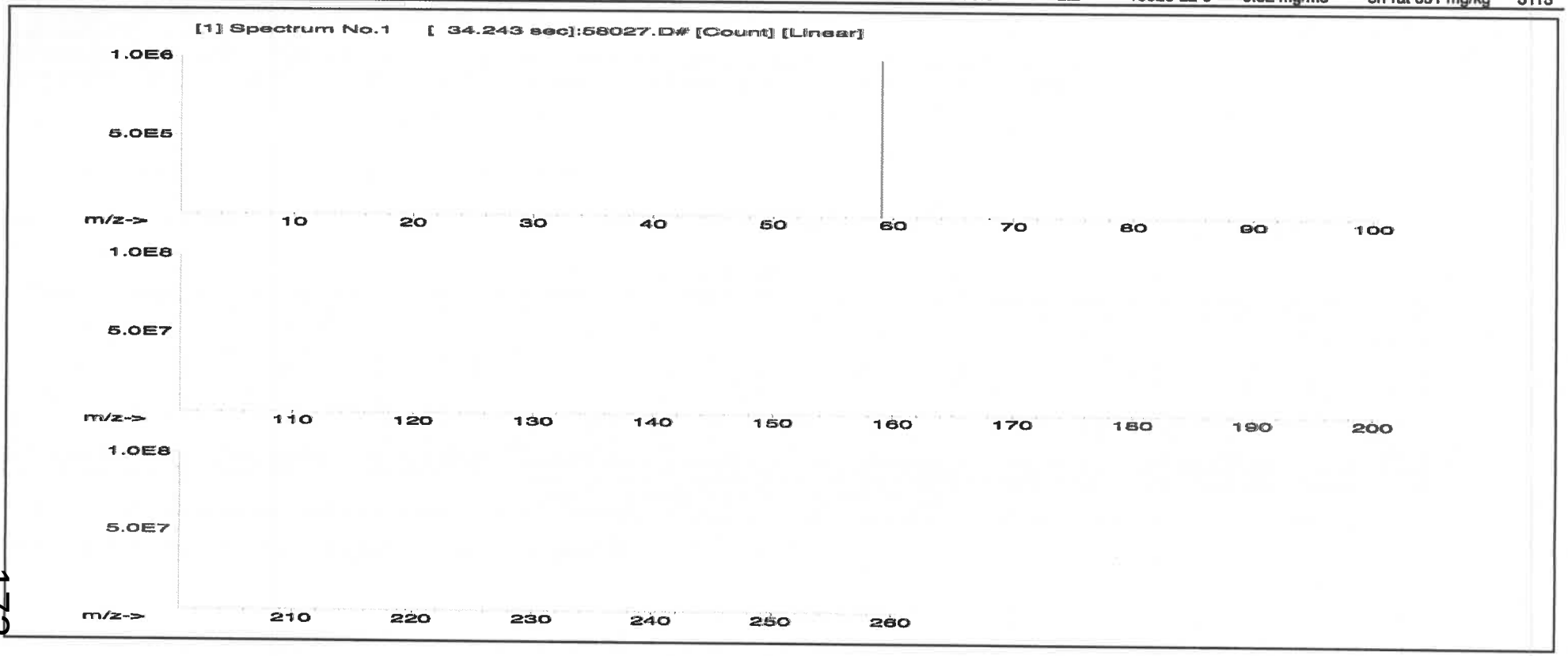
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* 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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174

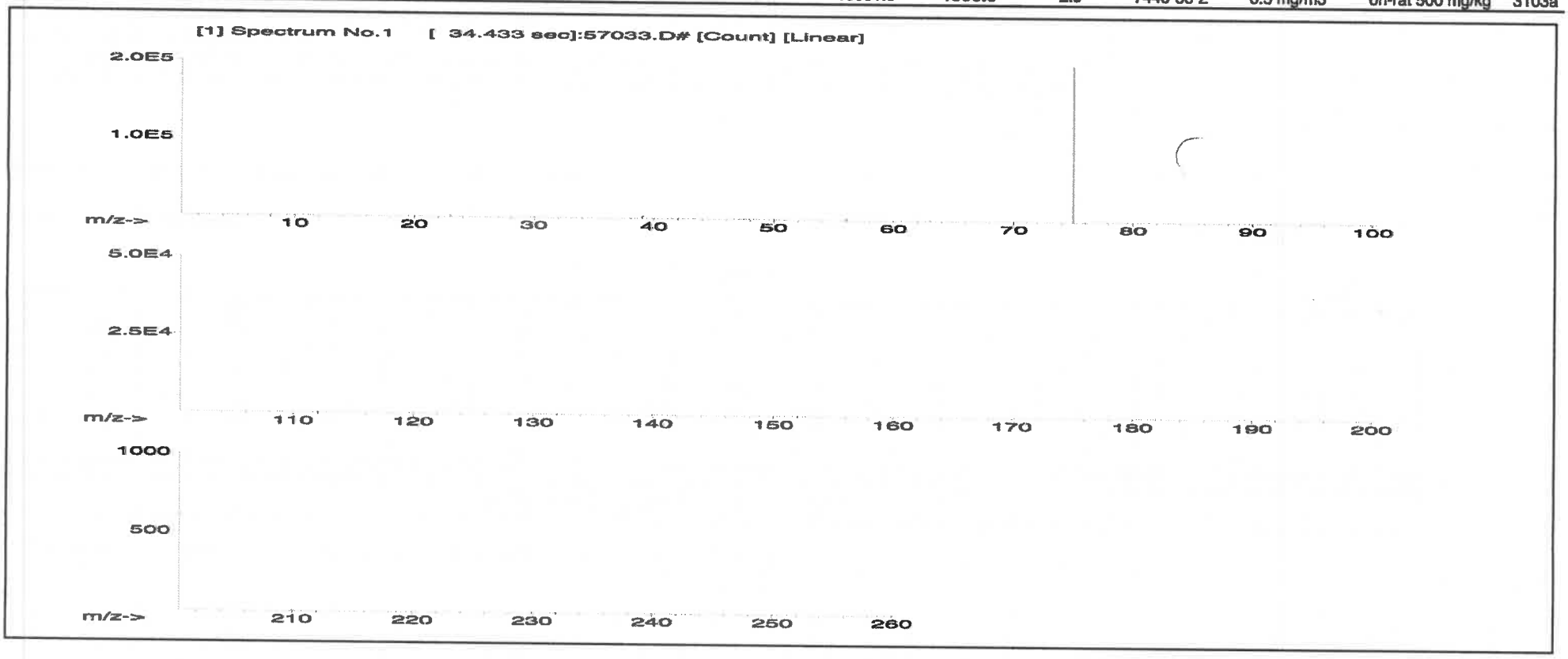
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By: Lawrence Barry 111323

Reviewed By: Pedro L. Rentas 111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



175

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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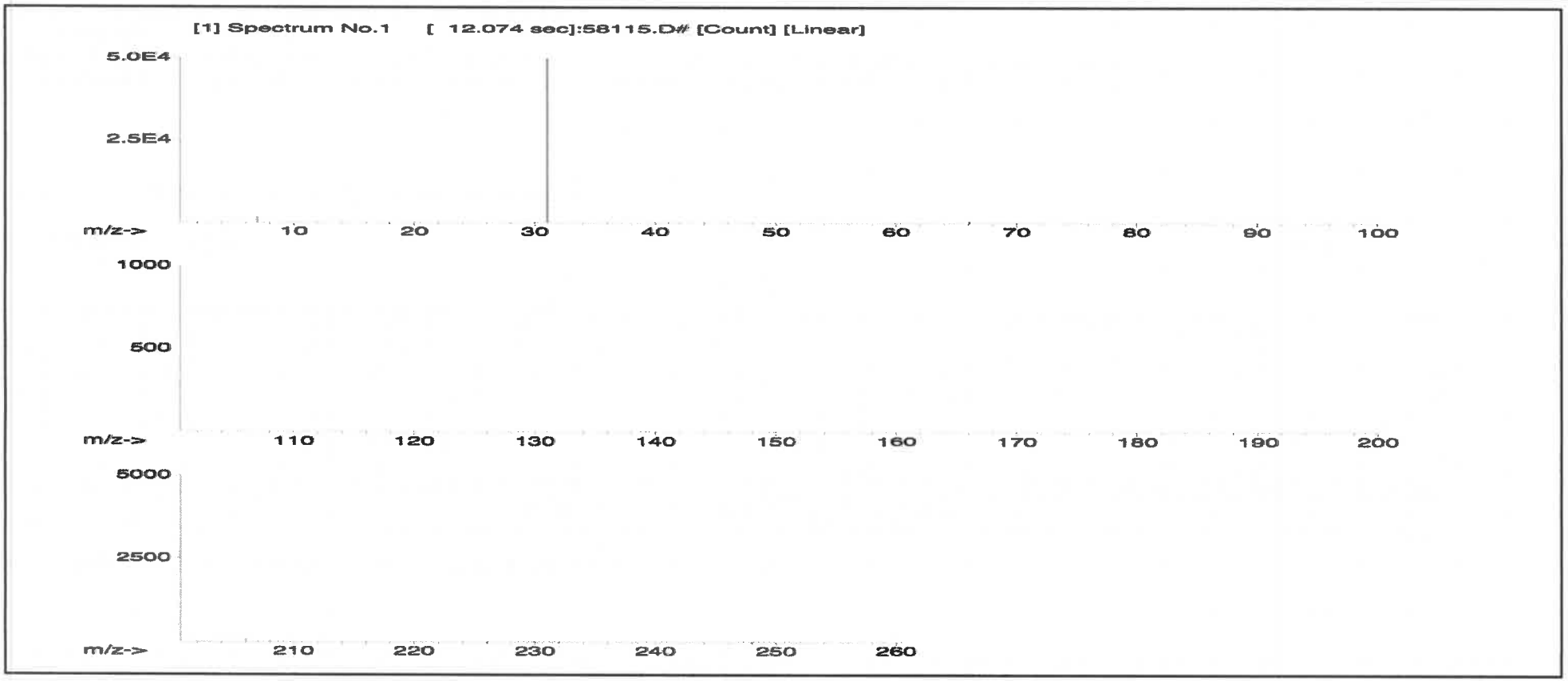
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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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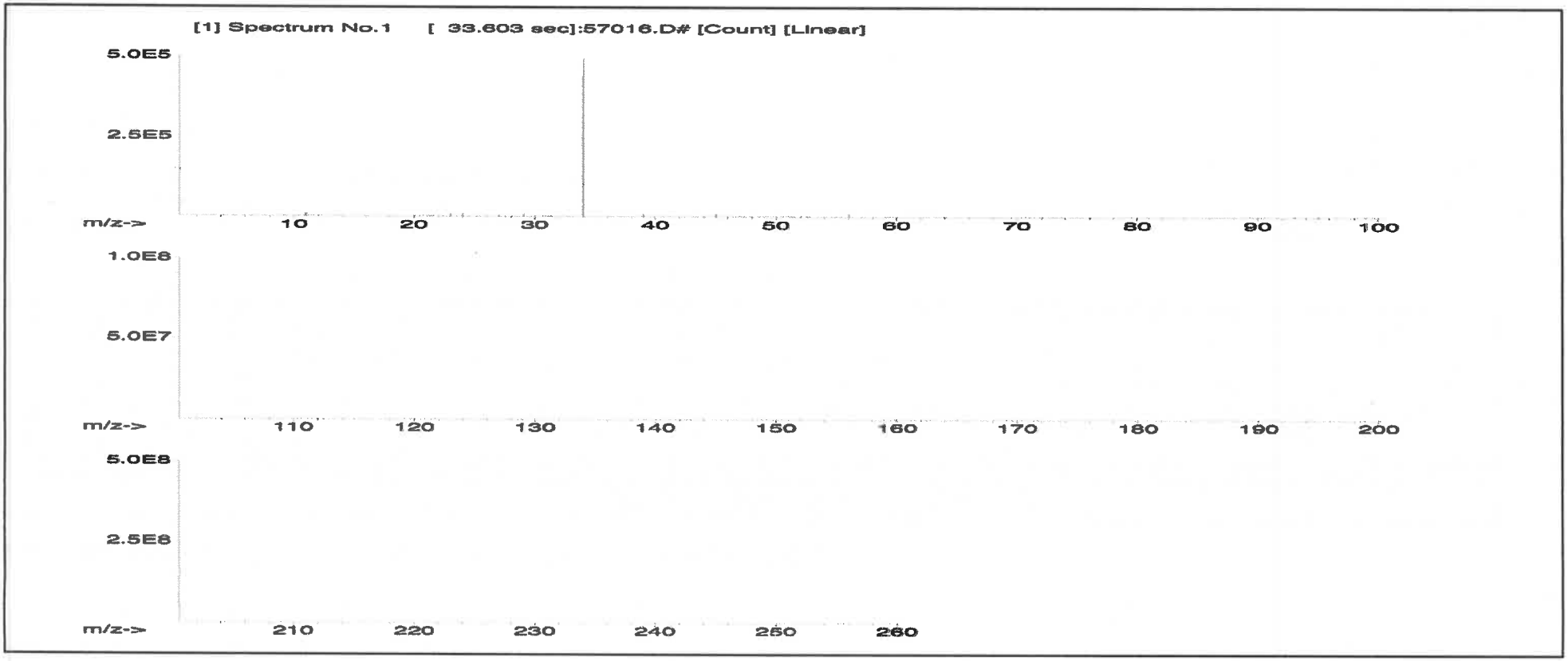
178

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



179

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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:

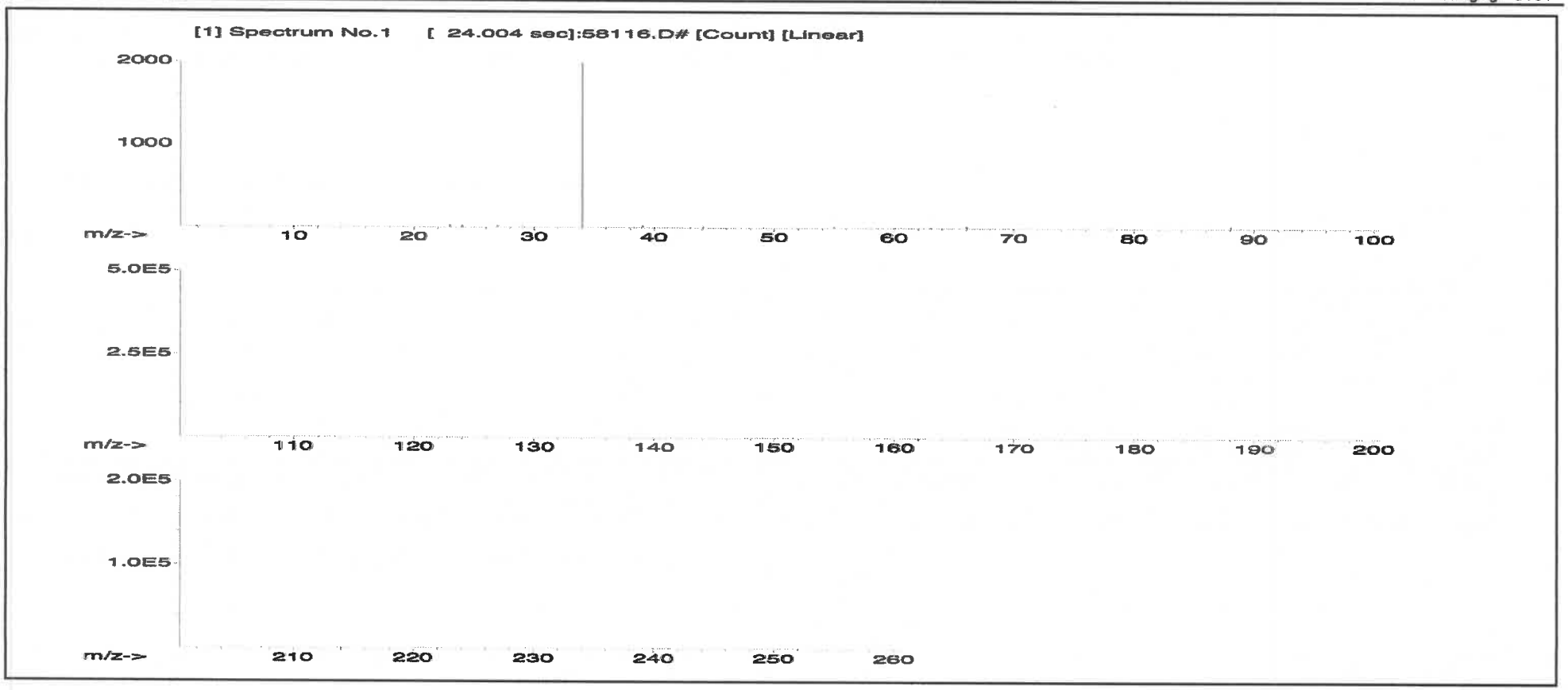
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



181

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

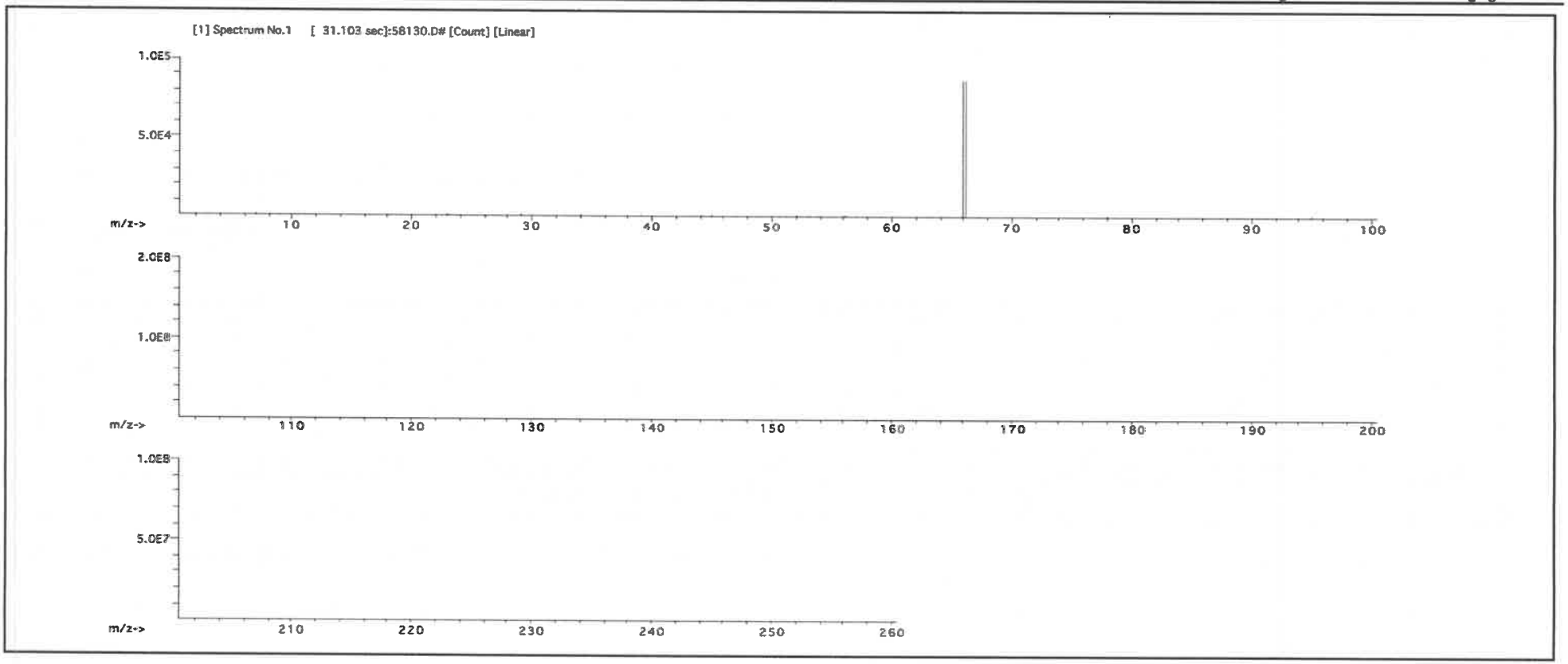
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



183

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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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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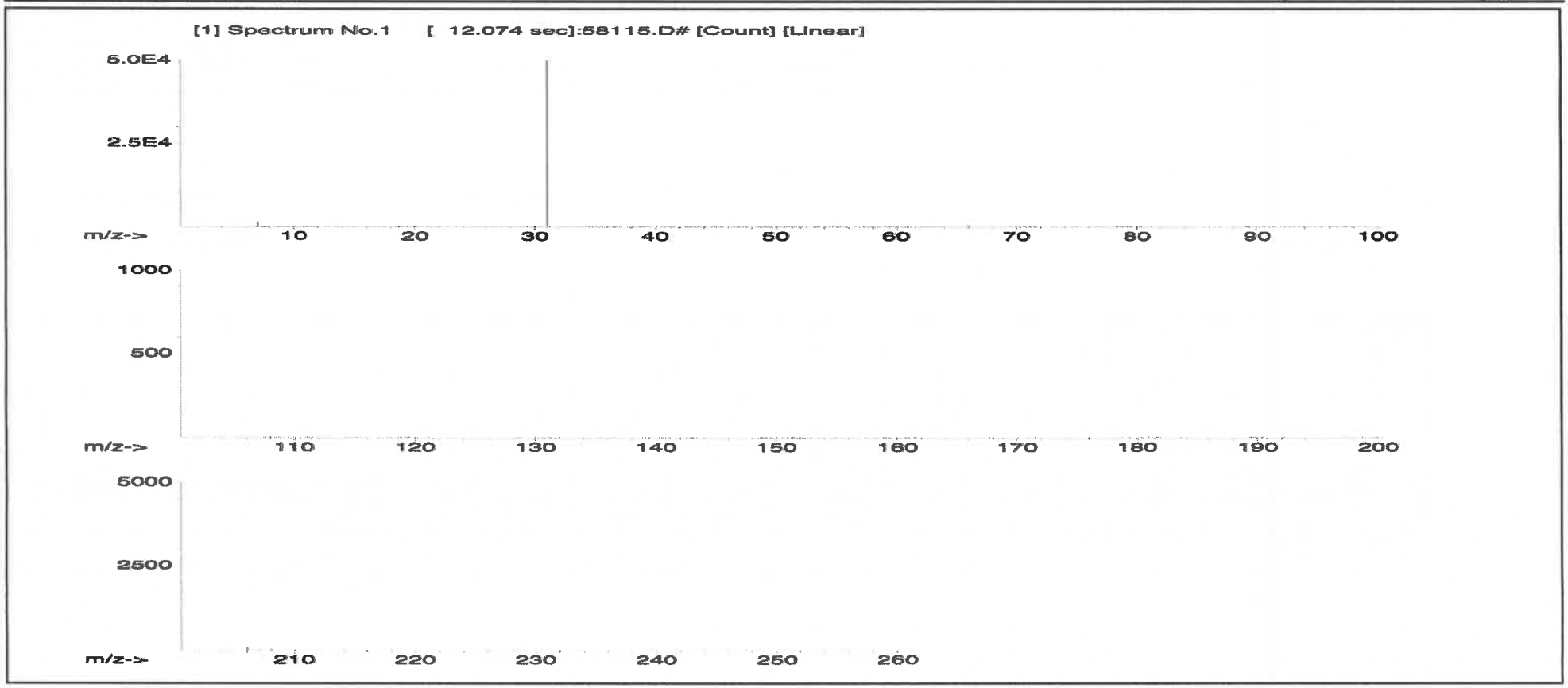
184

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



185

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

R: 02/22/24 M5942

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 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	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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 - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

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.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

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

February 20, 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

- February 20, 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 Reference Material CRM

M5961 R: 6/11/24

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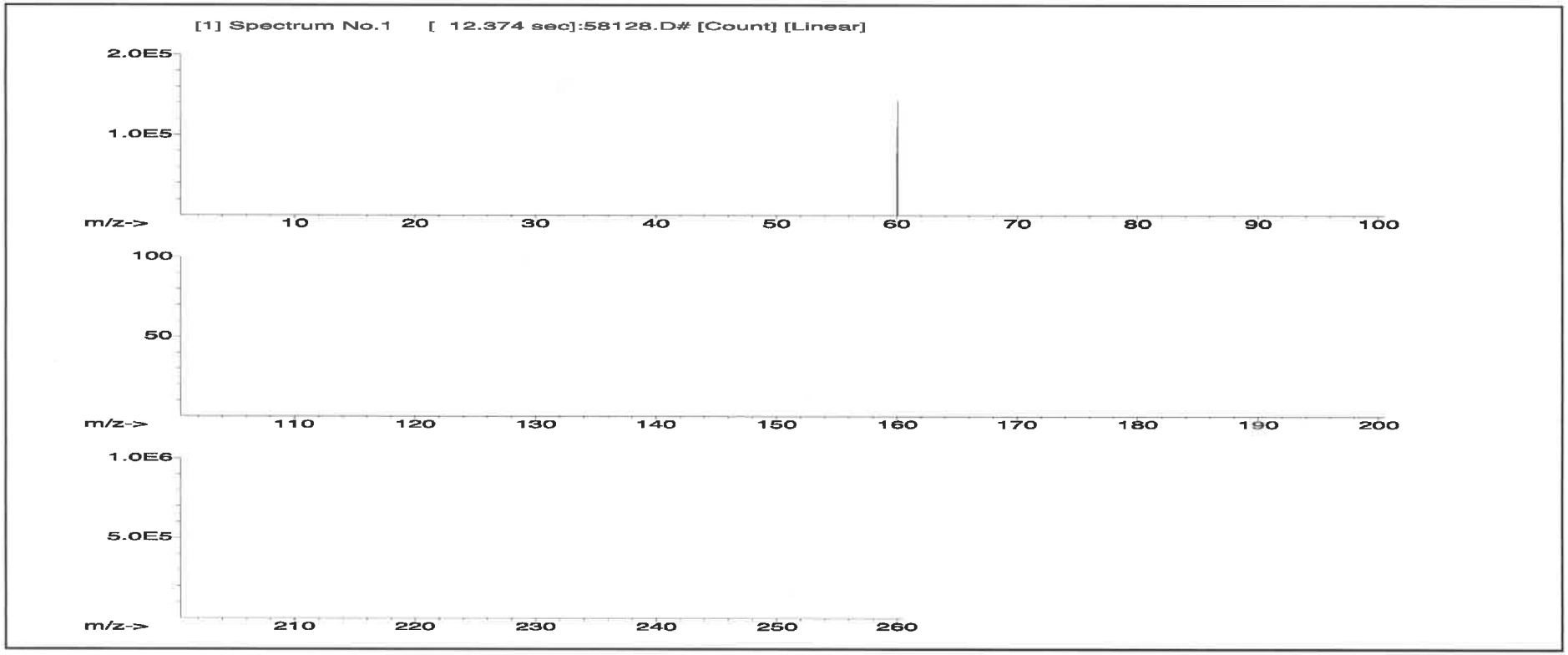
194

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5962 R! 06/14/24

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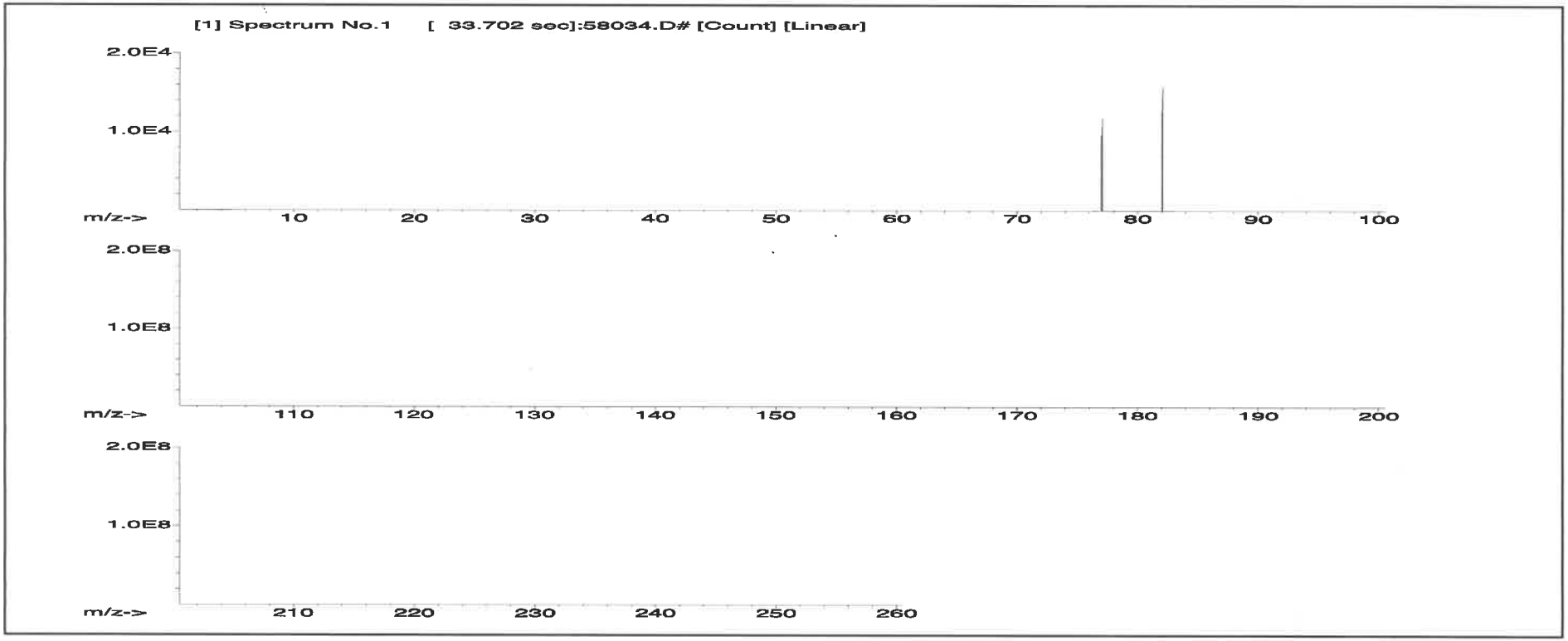
196

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



197

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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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

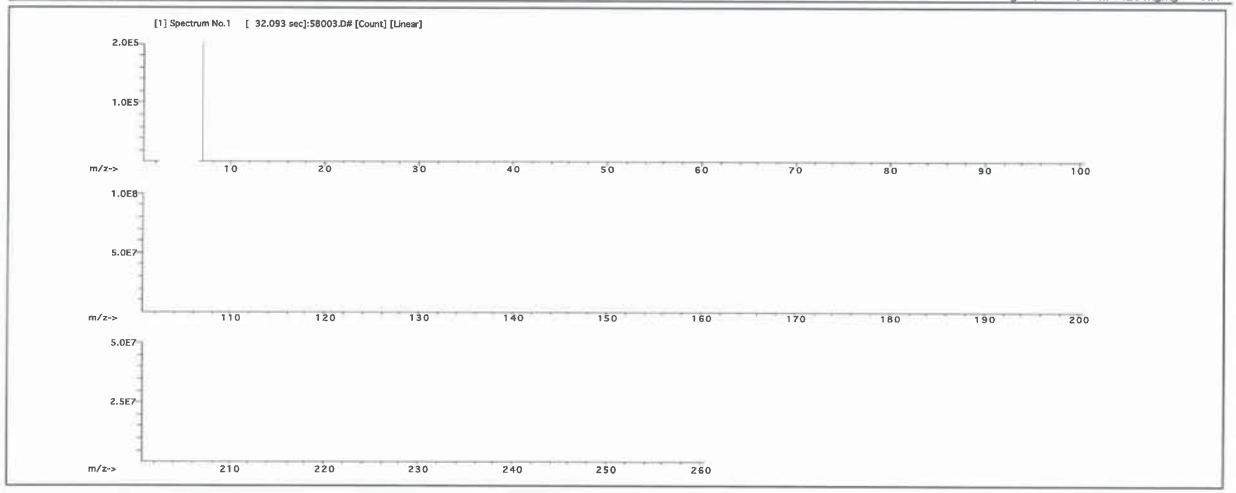
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

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. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/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	T	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	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5976, M5977
R: 02/22/24

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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info@inorganicventures.com

MS985
R: 6/14/24

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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 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	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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 - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

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.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or 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 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

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

February 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

- February 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



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

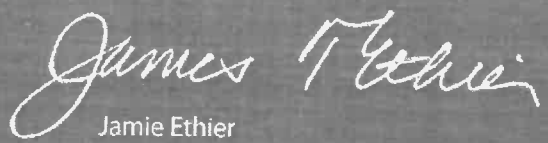
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Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

R→ 1/13/25

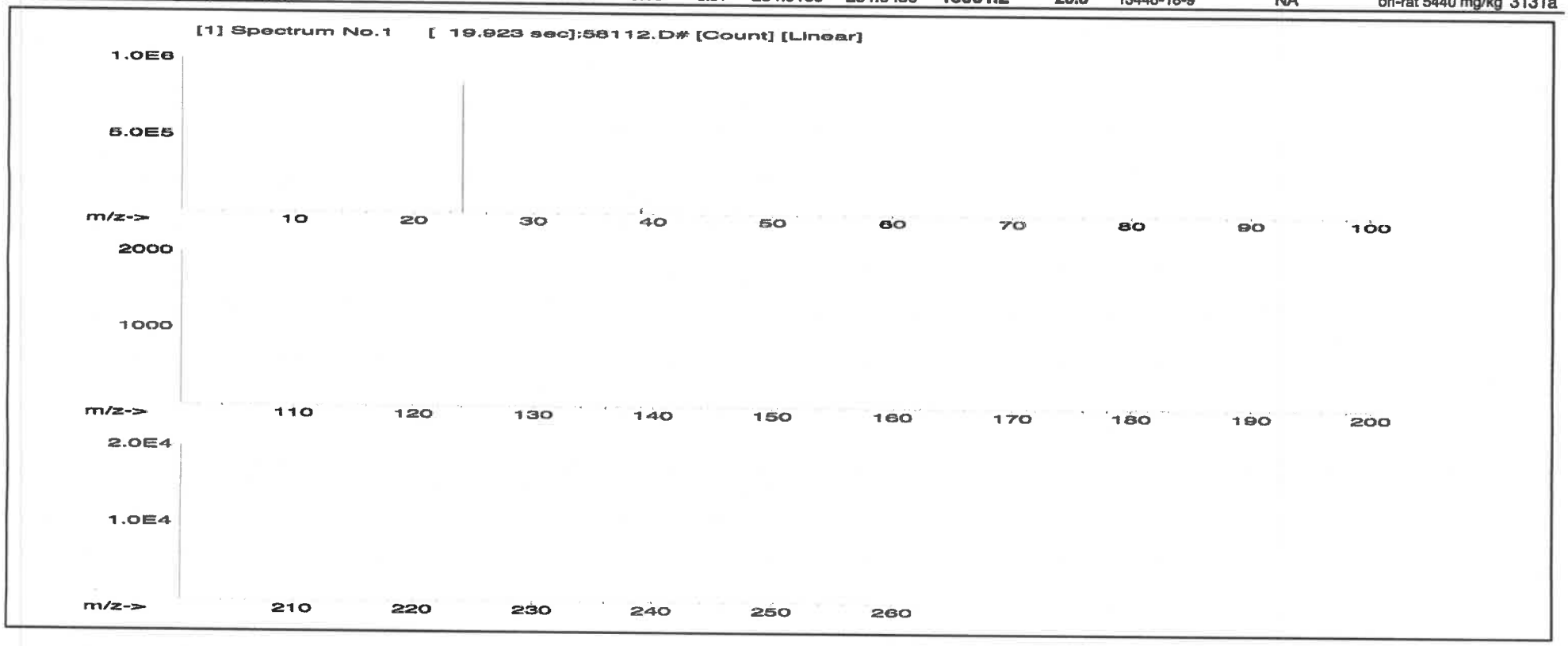
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



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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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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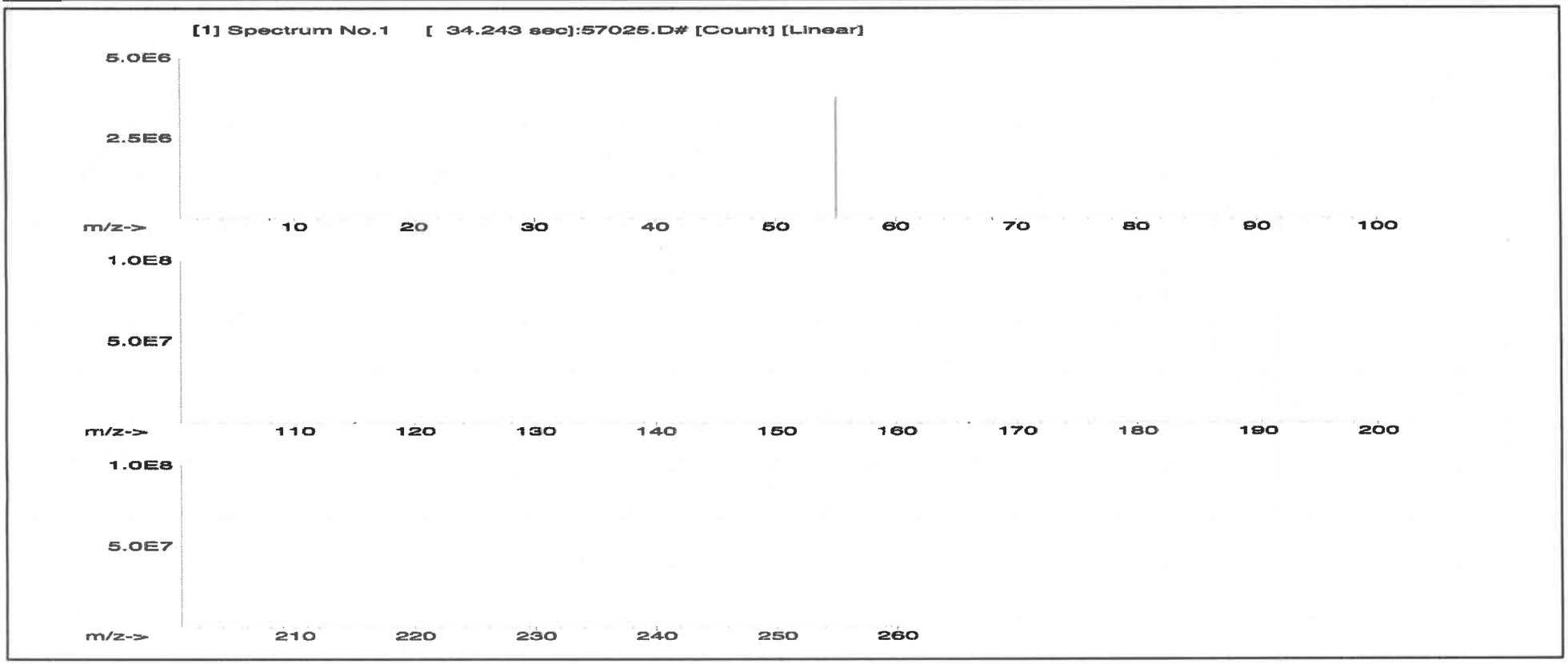
CERTIFIED WEIGHT REPORT:

R->1/13/25
M6928

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

Giovanni Esposito		
Formulated By:	Giovanni Esposito	101124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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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* 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: 01/03/24 M5806, M5807

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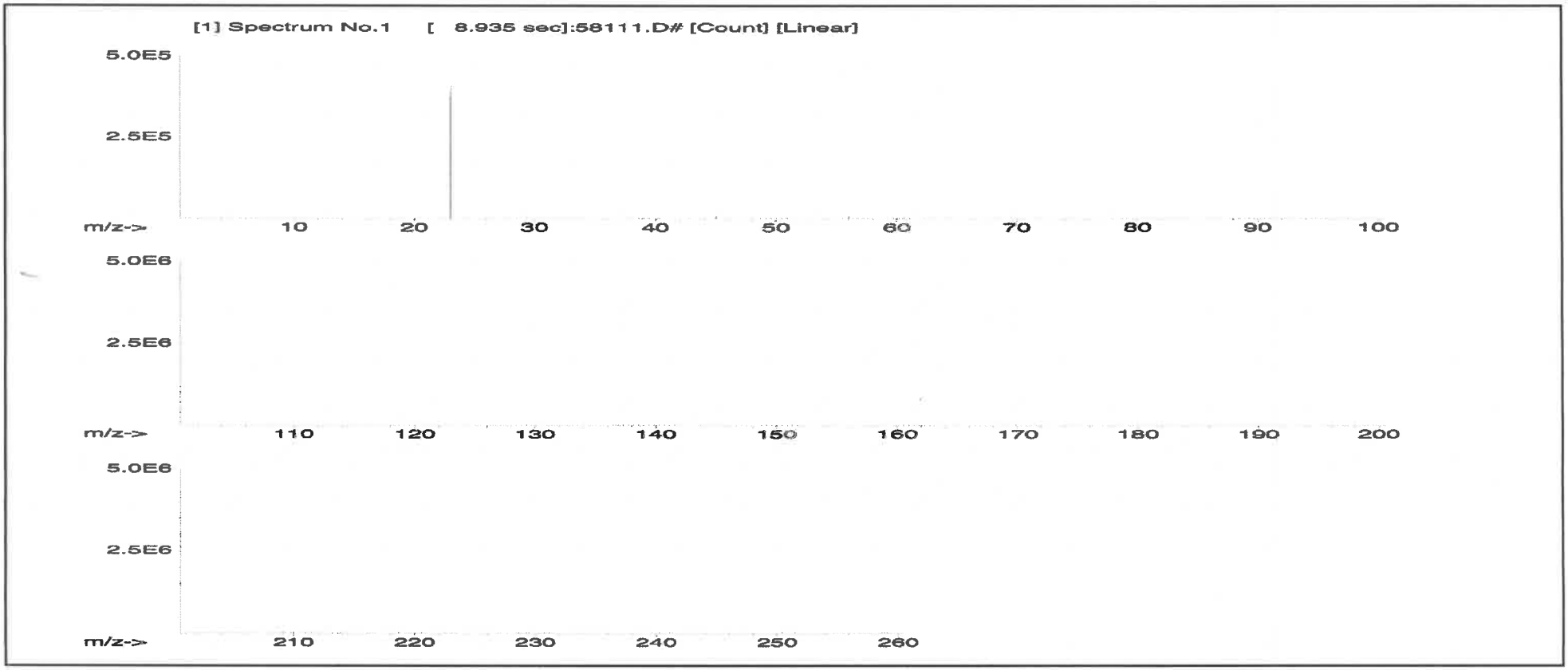
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**122223**			
Description:	**Sodium (Na)**			
		2%	60.0 (mL)	Nitric Acid
Expiration Date:	122226			
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):	3000.4	0.06	Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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R: 01/03/24 M5802, M5803

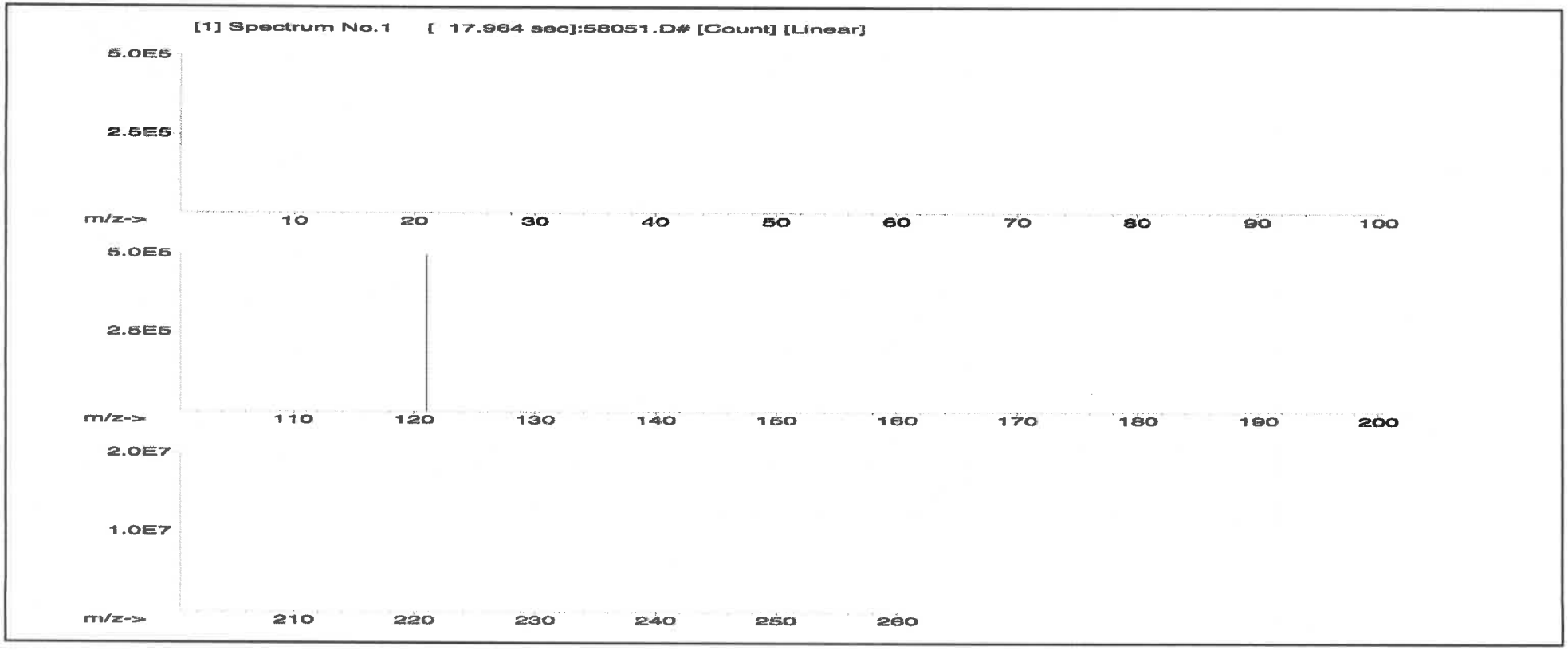
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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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:

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Certified Reference Material CRM

M6030

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

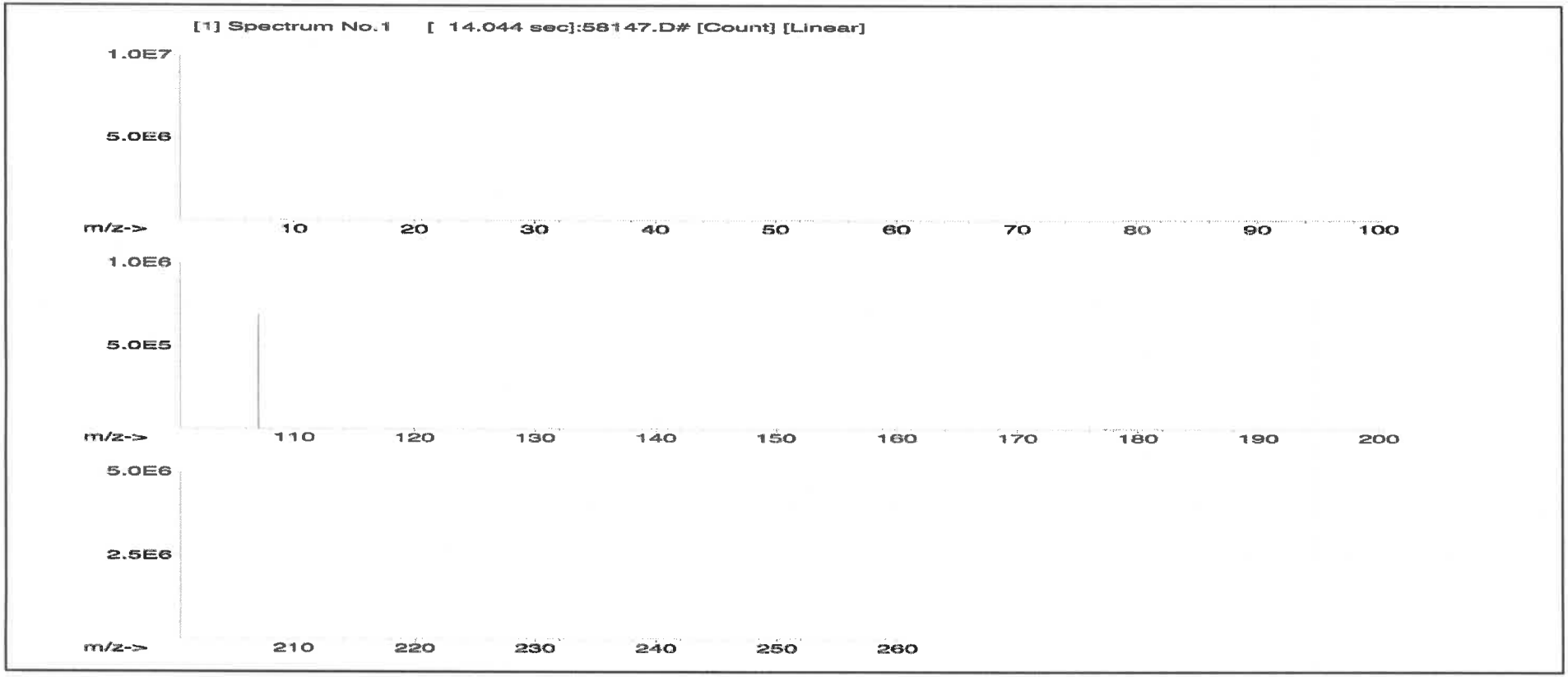
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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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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Certificate of Analysis

R: 8/5/24 M6019

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 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**998 ± 4 µg/mL** ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	**1001 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**1001 ± 2 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

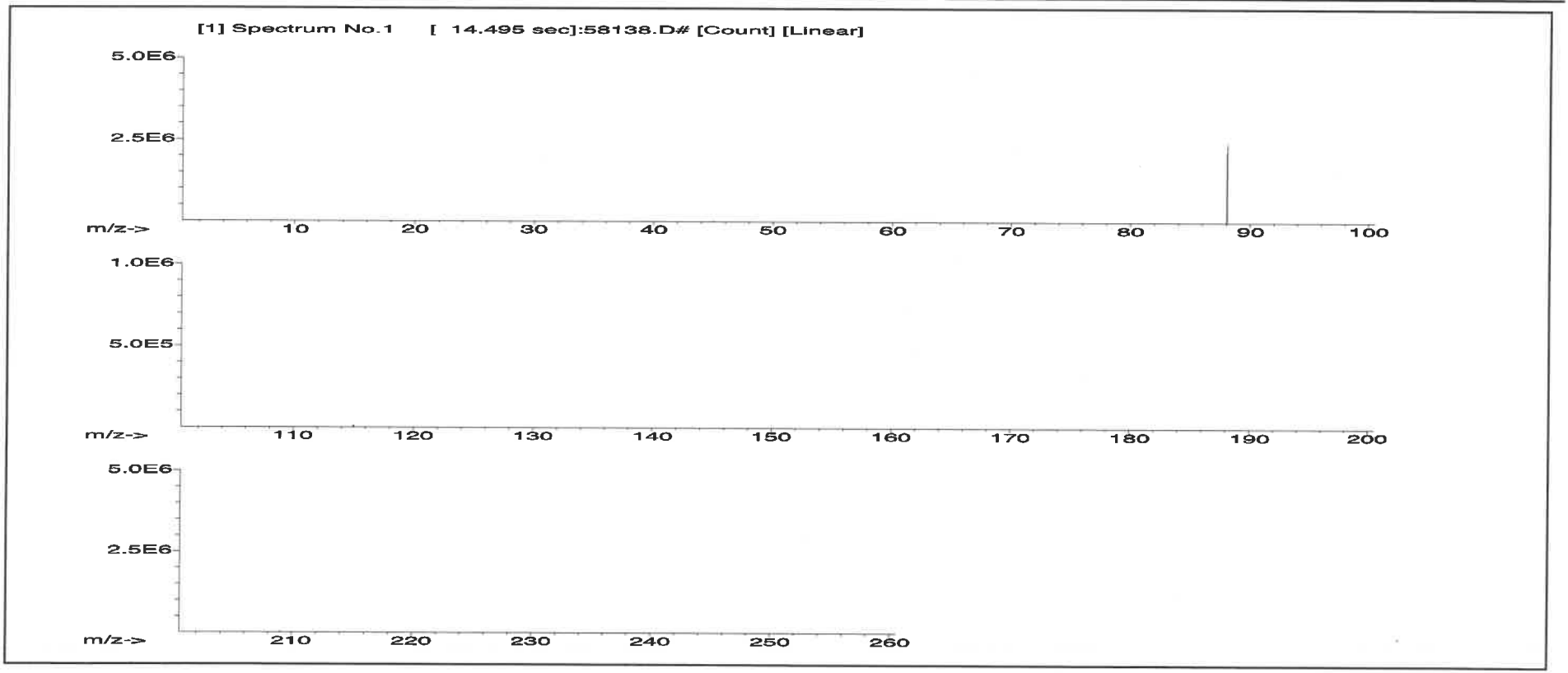
226

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R ! 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

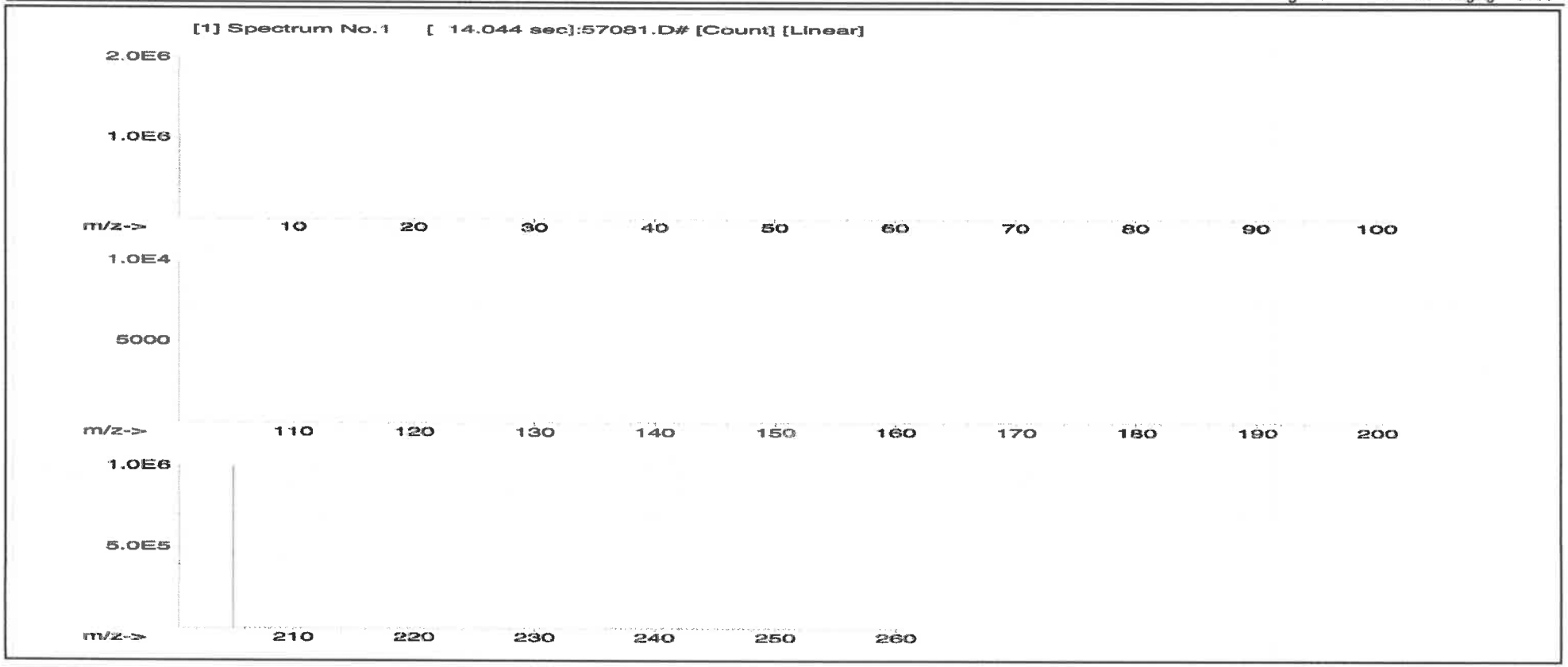
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6021

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Rc. 8/5/24

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

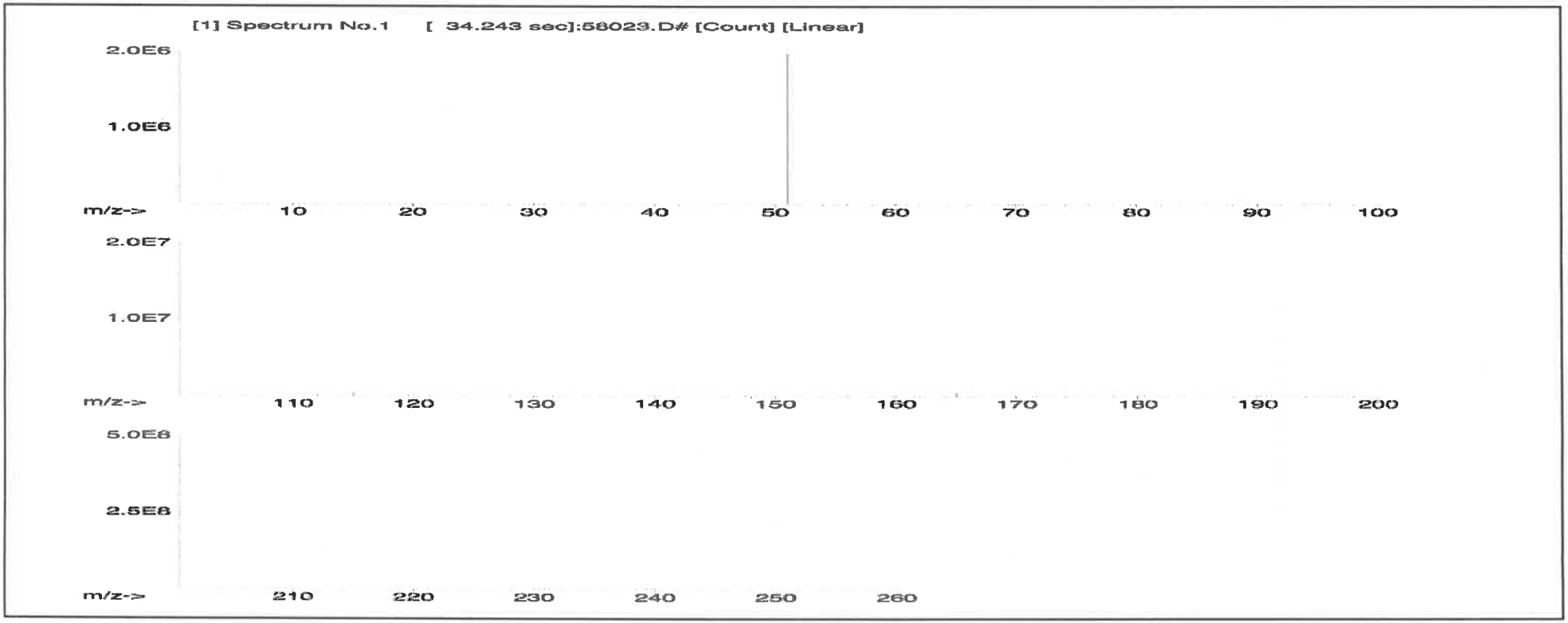
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166077

SOP ID : M200.7-Trace Elements-22, MSFAM01.1-Trace Metals-2

SDG No : MC0B99

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: 01/16/2025 **Time :** 10:10 **Temp :** 96 °C

End Digest Date: 01/16/2025 **Time :** 12:15 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP84063
Spike Sol 6	0.25	MP84070
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP84041
1:1 HCL	0.50	MP83499
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #55 :96

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/16/25 13:15	SKD. met digestion.	SJ (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166077

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166077BL	PBW077	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	19
PB166077BS	LCS077	<2	50	50	Colorless	Colorless	Clear	Clear	MP84063	20
Q1085-01	MC0B99	<2	50	50	Yellow	Colorless	Clear	Clear	N/A	21
Q1085-04	MC0BA2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	22
Q1085-05	MC0BA2D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	23
Q1085-06	MC0BA2S	<2	50	50	Colorless	Colorless	Clear	Clear	MP84070	24
Q1085-07	MC0BA4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	25

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134352

Review By	Sarabjit Jaswal	Review On	1/21/2025 6:54:37 AM
Supervise By	Mohan Bera	Supervise On	1/21/2025 6:55:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP83935,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84068
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/20/25 12:45		Kareem	OK
2	S1	S01	CAL2	01/20/25 12:49		Kareem	OK
3	S2	S02	CAL3	01/20/25 12:53		Kareem	OK
4	S3	S03	CAL4	01/20/25 12:57		Kareem	OK
5	S4	S04	CAL5	01/20/25 13:01		Kareem	OK
6	S5	S05	CAL6	01/20/25 13:05		Kareem	OK
7	S6	S06	CAL7	01/20/25 13:09		Kareem	OK
8	ICV001	ICV001	ICV	01/20/25 13:13	Na fail	Kareem	OK
9	ICB001	ICB001	ICB	01/20/25 13:17		Kareem	OK
10	ICSA001	ICSA001	ICSA	01/20/25 13:21		Kareem	OK
11	ICSAB001	ICSAB001	ICSAB	01/20/25 13:25		Kareem	OK
12	CCV001	CCV001	CCV	01/20/25 13:29		Kareem	OK
13	CCB001	CCB001	CCB	01/20/25 13:34		Kareem	OK
14	Q1085-01	MC0B99	SAM	01/20/25 13:38		Kareem	OK
15	Q1085-04	MC0BA2	SAM	01/20/25 13:42		Kareem	OK
16	Q1085-05	MC0BA2D	DUP	01/20/25 13:46		Kareem	OK
17	Q1085-04L	MC0BA2L	SD	01/20/25 13:49		Kareem	OK
18	Q1085-06	MC0BA2S	MS	01/20/25 13:54		Kareem	OK

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

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB134352

Review By	Sarabjit Jaswal	Review On	1/21/2025 6:54:37 AM
Supervise By	Mohan Bera	Supervise On	1/21/2025 6:55:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP83935,MP84064,MP84062,MP84061,MP84060,MP84059,MP84058
ICV Standard	MP84065
CCV Standard	MP84068
ICSA Standard	MP84066,MP84067
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84071,MP84072

19	Q1085-07	MC0BA4	SAM	01/20/25 13:57		Kareem	OK
20	PB166077BL	PBW077	MB	01/20/25 14:01		Kareem	OK
21	PB166077BS	LCS077	LCS	01/20/25 14:05		Kareem	OK
22	CCV002	CCV002	CCV	01/20/25 14:09		Kareem	OK
23	CCB002	CCB002	CCB	01/20/25 14:13		Kareem	OK

EPA SAMPLE NO.

MC0B99

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-01

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	21		01/17/2025	1743
7440-36-0	Antimony	2.0	U	01/17/2025	1743
7440-38-2	Arsenic	0.35	J	01/17/2025	1743
7440-39-3	Barium	430		01/17/2025	1743
7440-41-7	Beryllium	0.33	J	01/17/2025	1743
7440-43-9	Cadmium	0.38	J	01/17/2025	1743
7440-70-2	Calcium	72000		01/17/2025	1743
7440-47-3	Chromium	7500	D	01/20/2025	1715
7440-48-4	Cobalt	15		01/17/2025	1743
7440-50-8	Copper	10		01/17/2025	1743
7439-89-6	Iron	310		01/17/2025	1743
7439-92-1	Lead	1.0	U	01/17/2025	1743
7439-95-4	Magnesium	28000		01/17/2025	1743
7439-96-5	Manganese	440		01/17/2025	1743
7440-02-0	Nickel	210		01/17/2025	1743
7440-09-7	Potassium	1700		01/17/2025	1743
7782-49-2	Selenium	0.91	J	01/17/2025	1743
7440-22-4	Silver	1.0	U	01/17/2025	1743
7440-23-5	Sodium	26000		01/17/2025	1743
7440-28-0	Thallium	1.0	U	01/17/2025	1743
7440-62-2	Vanadium	0.51	J	01/17/2025	1743
7440-66-6	Zinc	21		01/17/2025	1743

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

Comments:

EPA SAMPLE NO.

MC0BA0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-02

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	01/17/2025	1746
7440-36-0	Antimony	2.0	U	01/17/2025	1746
7440-38-2	Arsenic	0.13	J	01/17/2025	1746
7440-39-3	Barium	300		01/17/2025	1746
7440-41-7	Beryllium	1.0	U	01/17/2025	1746
7440-43-9	Cadmium	1.0	U	01/17/2025	1746
7440-70-2	Calcium	67000		01/17/2025	1746
7440-47-3	Chromium	23		01/17/2025	1746
7440-48-4	Cobalt	1.8		01/17/2025	1746
7440-50-8	Copper	0.70	J	01/17/2025	1746
7439-89-6	Iron	200	U	01/17/2025	1746
7439-92-1	Lead	1.0	U	01/17/2025	1746
7439-95-4	Magnesium	27000		01/17/2025	1746
7439-96-5	Manganese	130		01/17/2025	1746
7440-02-0	Nickel	56		01/17/2025	1746
7440-09-7	Potassium	1600		01/17/2025	1746
7782-49-2	Selenium	0.92	J	01/17/2025	1746
7440-22-4	Silver	1.0	U	01/17/2025	1746
7440-23-5	Sodium	26000		01/17/2025	1746
7440-28-0	Thallium	1.0	U	01/17/2025	1746
7440-62-2	Vanadium	5.0	U	01/17/2025	1746
7440-66-6	Zinc	4.5	J	01/17/2025	1746

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

Comments:

EPA SAMPLE NO.

MC0BA1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-03

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	01/17/2025	1750
7440-36-0	Antimony	2.0	U	01/17/2025	1750
7440-38-2	Arsenic	0.16	J	01/17/2025	1750
7440-39-3	Barium	190		01/17/2025	1750
7440-41-7	Beryllium	1.0	U	01/17/2025	1750
7440-43-9	Cadmium	1.0	U	01/17/2025	1750
7440-70-2	Calcium	71000		01/17/2025	1750
7440-47-3	Chromium	23		01/17/2025	1750
7440-48-4	Cobalt	1.4		01/17/2025	1750
7440-50-8	Copper	18		01/17/2025	1750
7439-89-6	Iron	200	U	01/17/2025	1750
7439-92-1	Lead	26		01/17/2025	1750
7439-95-4	Magnesium	27000		01/17/2025	1750
7439-96-5	Manganese	37		01/17/2025	1750
7440-02-0	Nickel	69		01/17/2025	1750
7440-09-7	Potassium	1600		01/17/2025	1750
7782-49-2	Selenium	5.0	U	01/17/2025	1750
7440-22-4	Silver	1.0	U	01/17/2025	1750
7440-23-5	Sodium	26000		01/17/2025	1750
7440-28-0	Thallium	1.0	U	01/17/2025	1750
7440-62-2	Vanadium	5.0	U	01/17/2025	1750
7440-66-6	Zinc	21		01/17/2025	1750

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

Comments:

EPA SAMPLE NO.

MC0BA2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-04

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9.3	J	01/17/2025	1753
7440-36-0	Antimony	2.0	U	01/17/2025	1753
7440-38-2	Arsenic	0.18	J	01/17/2025	1753
7440-39-3	Barium	180		01/17/2025	1753
7440-41-7	Beryllium	1.0	U	01/17/2025	1753
7440-43-9	Cadmium	1.0	U	01/17/2025	1753
7440-70-2	Calcium	68000		01/17/2025	1753
7440-47-3	Chromium	150		01/17/2025	1753
7440-48-4	Cobalt	0.59	J	01/17/2025	1753
7440-50-8	Copper	2.0	U	01/17/2025	1753
7439-89-6	Iron	200	U	01/17/2025	1753
7439-92-1	Lead	1.0	U	01/17/2025	1753
7439-95-4	Magnesium	27000		01/17/2025	1753
7439-96-5	Manganese	36		01/17/2025	1753
7440-02-0	Nickel	21		01/17/2025	1753
7440-09-7	Potassium	1600		01/17/2025	1753
7782-49-2	Selenium	5.0	U	01/17/2025	1753
7440-22-4	Silver	1.0	U	01/17/2025	1753
7440-23-5	Sodium	27000		01/17/2025	1753
7440-28-0	Thallium	1.0	U	01/17/2025	1753
7440-62-2	Vanadium	0.29	J	01/17/2025	1753
7440-66-6	Zinc	5.0	U	01/17/2025	1753

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

Comments:

EPA SAMPLE NO.

MC0BA4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-07

% Solids: Date Received: 01/15/2025

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10	J	01/17/2025	1806
7440-36-0	Antimony	0.22	J	01/17/2025	1806
7440-38-2	Arsenic	0.26	J	01/17/2025	1806
7440-39-3	Barium	180		01/17/2025	1806
7440-41-7	Beryllium	1.0	U	01/17/2025	1806
7440-43-9	Cadmium	1.0	U	01/17/2025	1806
7440-70-2	Calcium	68000		01/17/2025	1806
7440-47-3	Chromium	150		01/17/2025	1806
7440-48-4	Cobalt	0.58	J	01/17/2025	1806
7440-50-8	Copper	2.4		01/17/2025	1806
7439-89-6	Iron	200	U	01/17/2025	1806
7439-92-1	Lead	0.44	J	01/17/2025	1806
7439-95-4	Magnesium	27000		01/17/2025	1806
7439-96-5	Manganese	40		01/17/2025	1806
7440-02-0	Nickel	21		01/17/2025	1806
7440-09-7	Potassium	1700		01/17/2025	1806
7782-49-2	Selenium	5.0	U	01/17/2025	1806
7440-22-4	Silver	0.19	J	01/17/2025	1806
7440-23-5	Sodium	27000		01/17/2025	1806
7440-28-0	Thallium	0.92	J	01/17/2025	1806
7440-62-2	Vanadium	0.32	J	01/17/2025	1806
7440-66-6	Zinc	1.2	J	01/17/2025	1806

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

Comments:

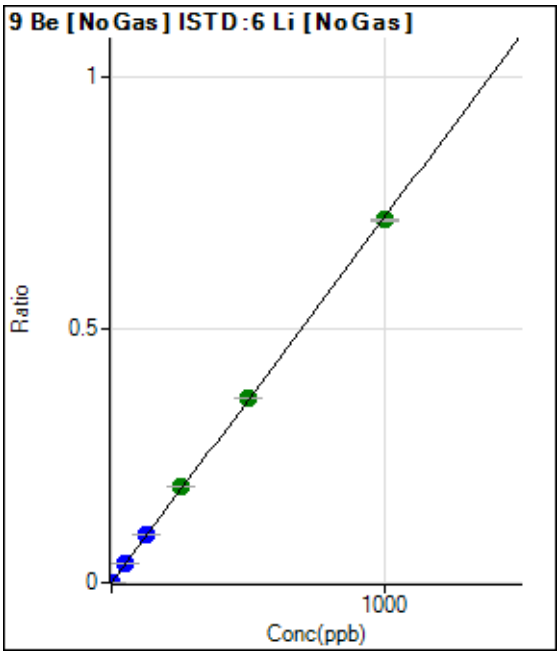
Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011725MS-3.b\
Analysis File: P8011725MS-3.batch.bin
DA Date-Time: 2025-01-17 16:06:17
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-17 12:32:13
2	006CALS.d	S02	2025-01-17 12:38:57
3	007CALB.d	S03	2025-01-17 12:42:17
4	008CALS.d	S04	2025-01-17 12:45:23
5	009CALS.d	S05	2025-01-17 12:48:21
6	010CALS.d	S06	2025-01-17 12:51:12
7	011CALS.d	S07	2025-01-17 12:53:57
8	012CALS.d	S08	2025-01-17 12:56:45

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	285.80	0.0000	P	11.5
2	☐	1.000	1.077	7094.16	0.0008	P	0.5
3	☐	50.000	52.498	330093.35	0.0379	P	0.5
4	☐	125.000	132.493	812906.23	0.0957	P	0.1
5	☐	250.000	262.759	1599928.14	0.1897	A	1.3
6	☐	500.000	505.232	3084256.25	0.3647	A	0.7
7	☐	1000.000	993.133	5964181.88	0.7169	A	0.2
8	☐			1518.65	0.0002	P	13.8

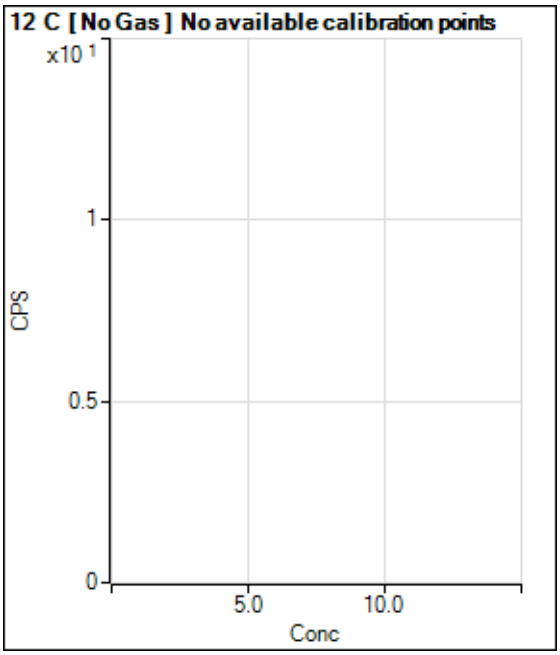
y = 7.2183E-004 * x + 3.2674E-005

R = 0.9999

DL = 0.01564

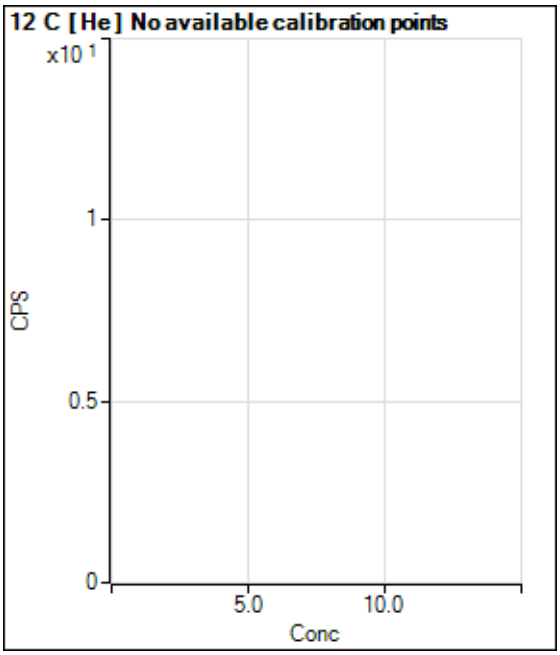
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Min Conc: 0

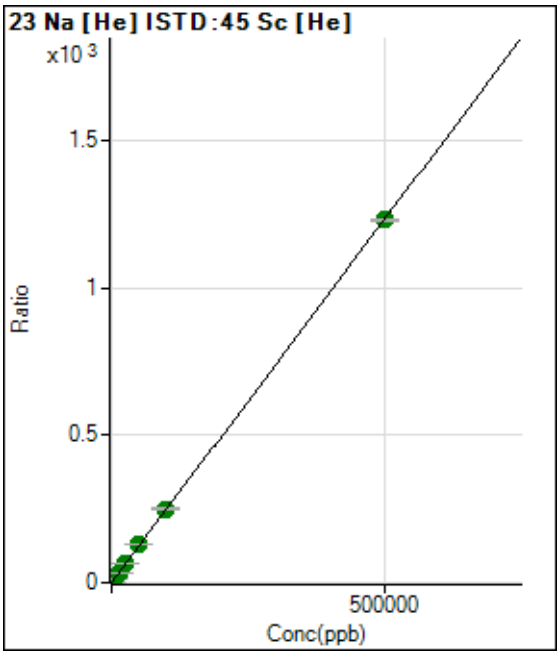


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3138450.58		A	0.9
2	☐			3258550.85		A	1.4
3	☐			3281253.25		A	1.9
4	☐			3469245.96		A	1.1
5	☐			3581458.45		A	0.2
6	☐			3912297.79		A	0.8
7	☐			4631002.33		A	3.3
8	☐			6132966.96		A	12.1

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On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22095.57		P	0.9
2	☐			23072.62		P	0.8
3	☐			23311.84		P	2.1
4	☐			24980.18		P	0.7
5	☐			26017.53		P	1.7
6	☐			29209.02		P	1.8
7	☐			36400.49		P	1.2
8	☐			60038.48		P	1.1

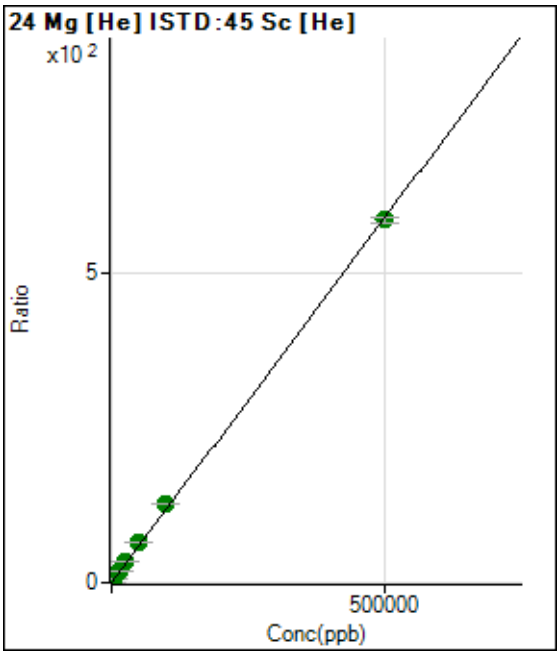


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17576.19	0.0931	P	0.4
2	☐	500.000	555.915	284821.74	1.4653	P	3.4
3	☐	5000.000	5465.787	2582563.50	13.5845	A	1.1
4	☐	12500.000	13592.987	6419940.60	33.6451	A	1.1
5	☐	25000.000	26717.986	12786735.64	66.0419	A	0.1
6	☐	50000.000	52398.262	25110492.68	129.4292	A	0.8
7	☐	100000.00	101368.50	49988517.03	250.3039	A	1.5
8	☐	500000.00	499368.53	213020725.7	1,232.698	A	0.8

y = 0.0025 * x + 0.0931
R = 1.0000
DL = 0.4039

Weight: <None>
Min Conc: 0

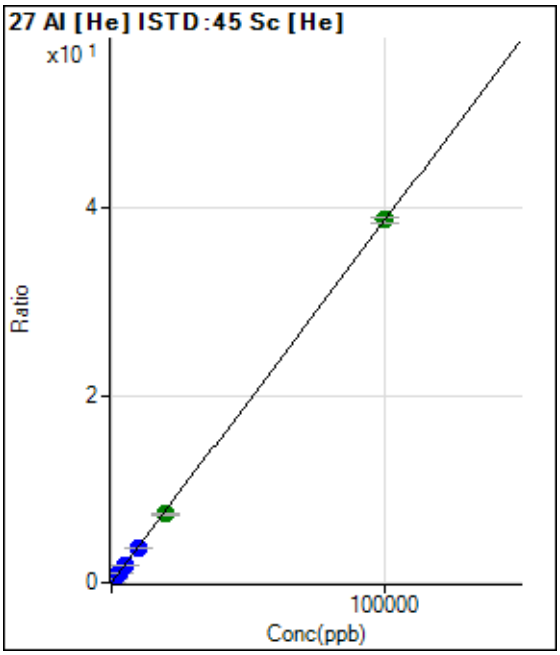
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On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	668.91	0.0035	P	8.2
2	☐	500.000	608.205	139908.91	0.7197	P	3.1
3	☐	5000.000	5960.270	1334980.71	7.0222	A	1.5
4	☐	12500.000	14937.083	3356940.99	17.5930	A	1.4
5	☐	25000.000	28522.162	6503480.11	33.5904	A	0.7
6	☐	50000.000	56154.533	12829425.92	66.1295	A	1.3
7	☐	100000.00	108249.47	25459448.23	127.4751	A	0.8
8	☐	500000.00	497487.90	101229815.1	585.8313	A	1.6

y = 0.0012 * x + 0.0035
R = 0.9998
DL = 0.7417

Weight: <None>
Min Conc: 0

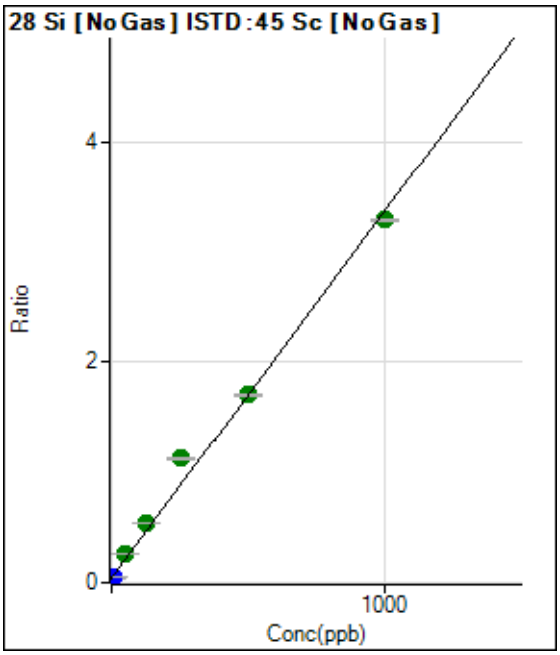


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	134.45	0.0007	P	21.1
2	☐	20.000	19.091	1573.44	0.0081	P	7.0
3	☐	1000.000	1019.578	75138.15	0.3952	P	0.4
4	☐	2500.000	2553.981	188714.61	0.9890	P	0.2
5	☐	5000.000	4971.954	372635.71	1.9246	P	0.3
6	☐	10000.000	9730.974	730672.98	3.7661	P	0.2
7	☐	20000.000	19097.933	1475891.38	7.3907	A	2.6
8	☐	100000.00	100207.17	6700499.83	38.7760	A	1.4

y = 3.8695E-004 * x + 7.1262E-004
R = 1.0000
DL = 1.165

Weight: <None>
Min Conc: 0

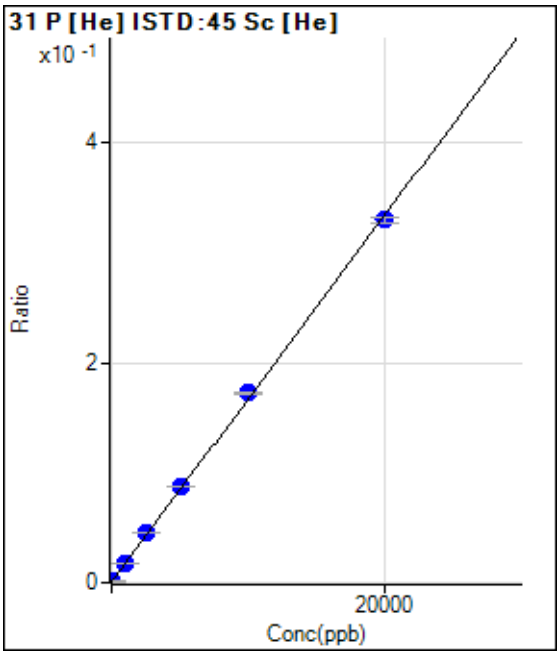
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On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	429987.17	0.0417	P	0.7
2	☐	10.000	2.599	519505.15	0.0504	P	1.5
3	☐	50.000	65.978	2716584.58	0.2614	A	2.9
4	☐	125.000	149.391	5571412.97	0.5391	A	1.4
5	☐	250.000	325.899	11829046.21	1.1267	A	0.7
6	☐	500.000	499.841	18075809.45	1.7058	A	0.9
7	☐	1000.000	977.331	34620937.82	3.2954	A	0.3
8	☐			566649.63	0.0629	P	0.9

y = 0.0033 * x + 0.0417
R = 0.9964
DL = 0.2706

Weight: <None>
Min Conc: 0

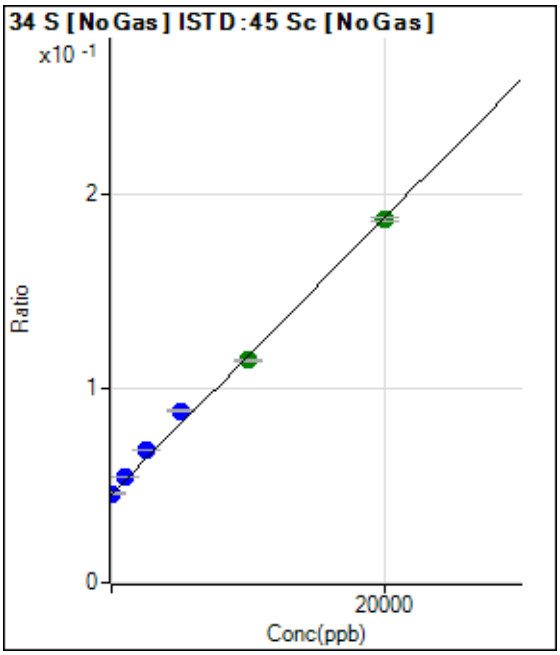


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-18.994	47.78	0.0003	P	10.1
2	☐	0.000	18.994	172.22	0.0009	P	6.7
3	☐	1000.000	1041.184	3409.32	0.0179	P	2.8
4	☐	2500.000	2685.598	8654.87	0.0454	P	1.1
5	☐	5000.000	5233.326	17008.95	0.0878	P	1.1
6	☐	10000.000	10304.870	33451.88	0.1724	P	0.5
7	☐	20000.000	19763.975	65939.88	0.3302	P	1.2
8	☐			104.45	0.0006	P	19.3

y = 1.6677E-005 * x + 5.6980E-004
R = 0.9997
DL = 7.657

Weight: <None>
Min Conc: 0

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On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-15.706	470322.16	0.0456	P	0.3
2	☐	0.000	15.706	472928.73	0.0459	P	1.3
3	☐	1000.000	1227.542	566310.44	0.0545	P	1.7
4	☐	2500.000	3162.289	705452.00	0.0683	P	0.6
5	☐	5000.000	6007.230	929219.57	0.0885	P	0.5
6	☐	10000.000	9654.249	1212995.63	0.1145	A	0.8
7	☐	20000.000	19826.905	1963377.07	0.1869	A	0.9
8	☐			333091.52	0.0370	P	1.6

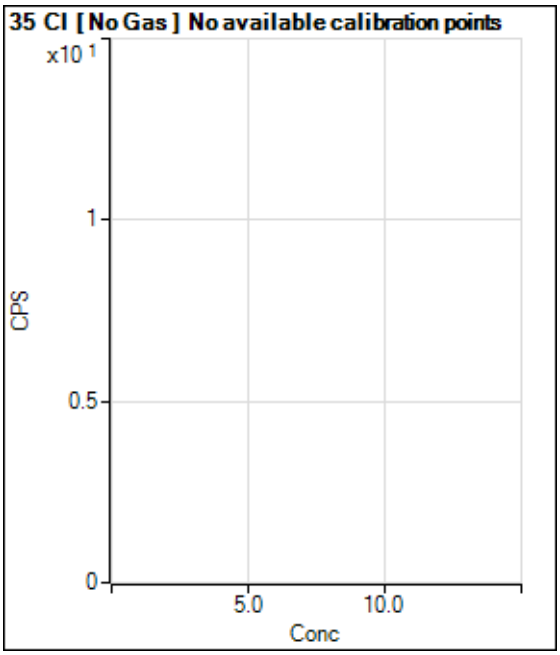
y = 7.1190E-006 * x + 0.0457

R = 0.9980

DL = 155.9

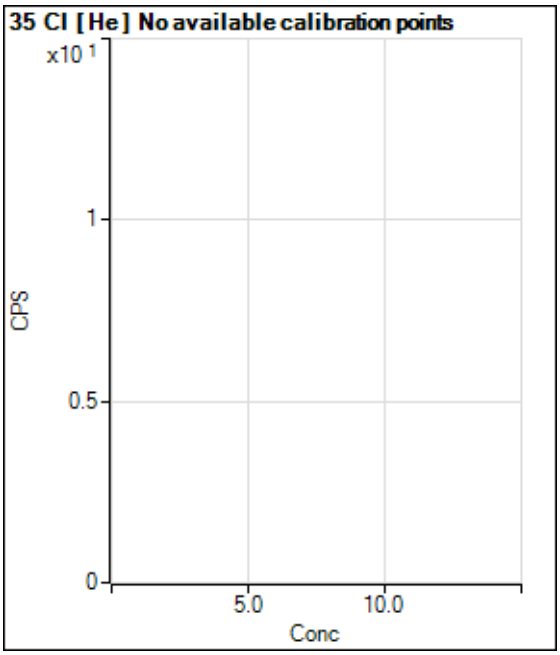
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Min Conc: 0

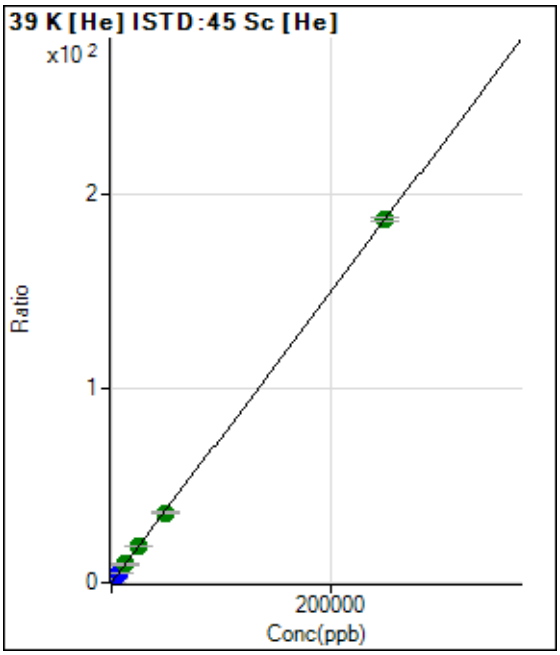


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			68611.36		P	1.1
2	☐			69505.58		P	1.3
3	☐			67998.63		P	1.5
4	☐			72772.66		P	0.8
5	☐			75040.73		P	1.8
6	☐			86924.38		P	1.3
7	☐			111580.15		P	1.8
8	☐			62402.48		P	0.1

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			283.34		P	8.5
2	☐			268.89		P	2.6
3	☐			261.12		P	21.1
4	☐			277.78		P	6.2
5	☐			290.01		P	18.1
6	☐			377.79		P	7.9
7	☐			493.35		P	12.5
8	☐			281.12		P	9.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6963.96	0.0369	P	2.5
2	☐	500.000	510.373	81079.18	0.4171	P	2.6
3	☐	2500.000	2532.486	365637.20	1.9233	P	0.6
4	☐	6250.000	6385.029	914566.43	4.7930	P	0.9
5	☐	12500.000	12619.960	1827119.92	9.4373	A	1.7
6	☐	25000.000	25232.062	3653616.61	18.8318	A	0.7
7	☐	50000.000	48212.703	7179484.34	35.9497	A	1.7
8	☐	250000.00	250324.53	32227536.74	186.4994	A	1.2

y = 7.4488E-004 * x + 0.0369

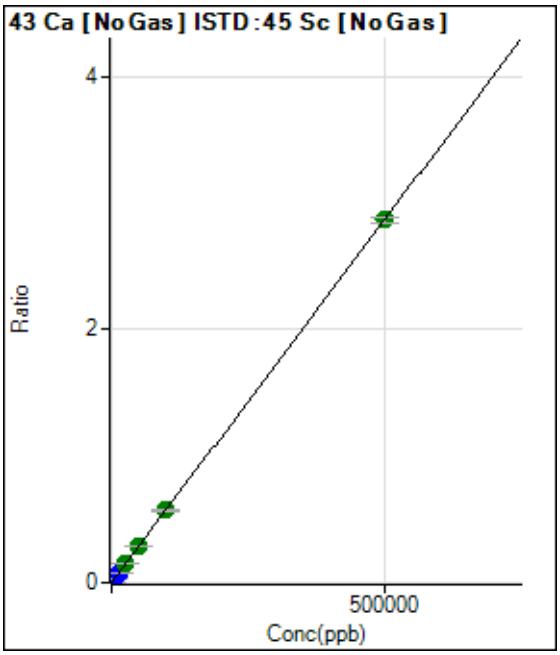
R = 1.0000

DL = 3.681

Weight: <None>

Min Conc: 0

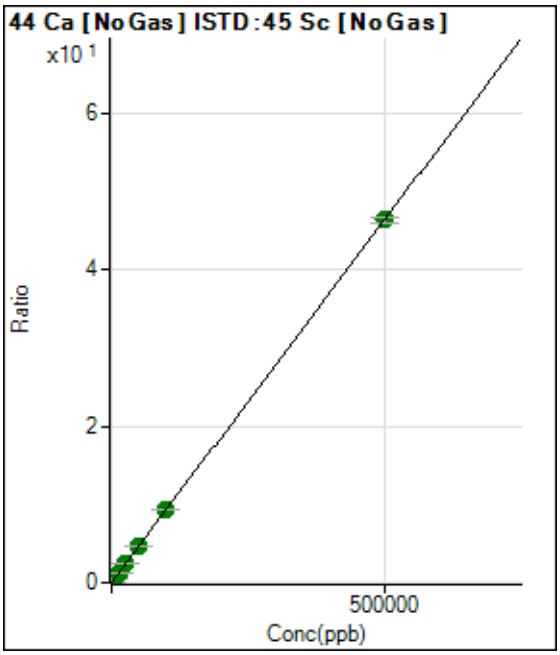
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	452.23	0.0000	P	15.1
2	☐	500.000	546.832	32767.30	0.0032	P	0.9
3	☐	5000.000	5120.312	305404.27	0.0294	P	1.6
4	☐	12500.000	12922.725	765665.76	0.0741	P	1.5
5	☐	25000.000	25786.596	1551560.71	0.1478	A	1.4
6	☐	50000.000	50046.563	3038999.12	0.2868	A	0.6
7	☐	100000.00	99670.893	5999724.36	0.5711	A	0.9
8	☐	500000.00	500010.01	25796106.01	2.8648	A	1.8

y = 5.7294E-006 * x + 4.3878E-005
R = 1.0000
DL = 3.479

Weight: <None>
Min Conc: 0

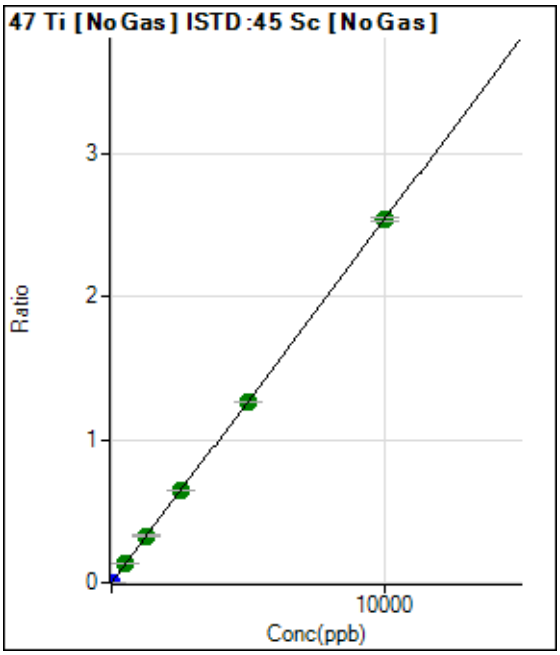


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8999.55	0.0009	P	3.7
2	☐	500.000	540.443	525685.19	0.0510	P	1.0
3	☐	5000.000	5109.039	4931436.07	0.4744	A	1.9
4	☐	12500.000	12891.746	12359962.45	1.1958	A	0.4
5	☐	25000.000	25458.438	24784257.96	2.3606	A	0.3
6	☐	50000.000	49834.518	48955426.49	4.6201	A	1.3
7	☐	100000.00	99546.319	96946901.89	9.2279	A	0.1
8	☐	500000.00	500073.43	417390380.4	46.3530	A	1.7

y = 9.2691E-005 * x + 8.7314E-004
R = 1.0000
DL = 1.042

Weight: <None>
Min Conc: 0

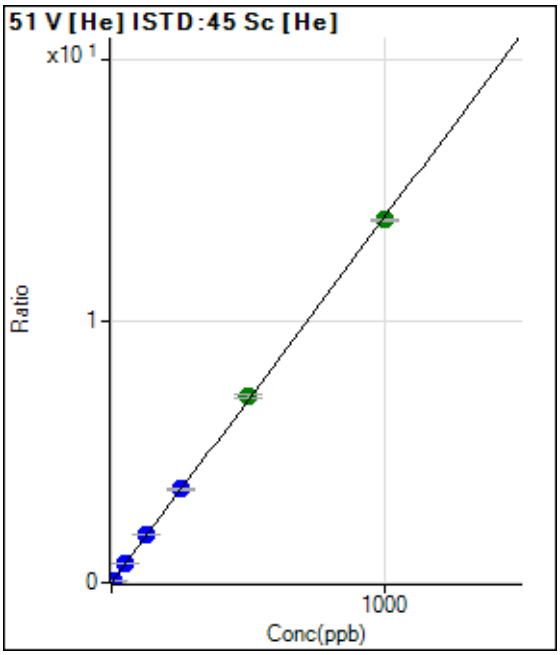
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.11	0.0000	P	7.2
2	☐	5.000	5.358	14204.89	0.0014	P	2.2
3	☐	500.000	519.470	1371348.10	0.1319	A	2.3
4	☐	1250.000	1296.845	3403990.85	0.3294	A	1.3
5	☐	2500.000	2525.258	6733044.62	0.6413	A	0.7
6	☐	5000.000	4992.540	13435767.99	1.2679	A	0.3
7	☐	10000.000	9990.586	26654489.60	2.5372	A	1.1
8	☐			10308.24	0.0011	P	5.1

y = 2.5395E-004 * x + 1.6600E-005
R = 1.0000
DL = 0.01422

Weight: <None>
Min Conc: 0

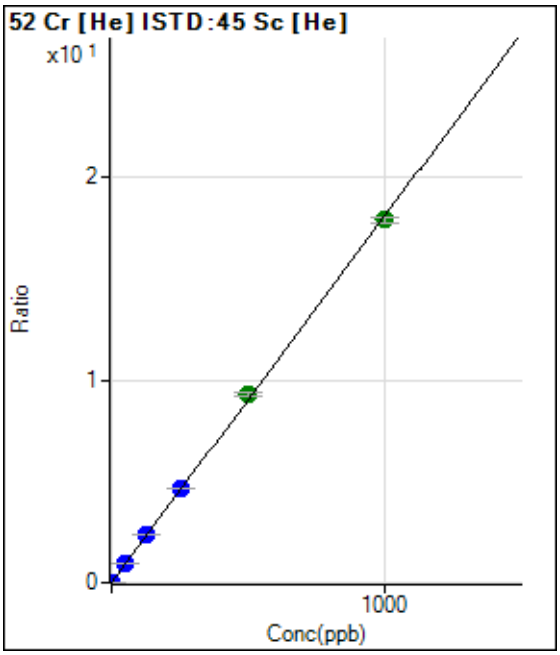


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	69.6
2	☐	5.000	5.189	14097.03	0.0725	P	3.6
3	☐	50.000	51.509	136820.91	0.7197	P	0.1
4	☐	125.000	129.633	345607.59	1.8112	P	0.7
5	☐	250.000	255.380	690830.32	3.5681	P	0.6
6	☐	500.000	510.041	1382563.92	7.1261	A	2.4
7	☐	1000.000	992.979	2770942.14	13.8736	A	0.5
8	☐			451.12	0.0026	P	7.2

y = 0.0140 * x + 2.9457E-005
R = 0.9999
DL = 0.004403

Weight: <None>
Min Conc: 0

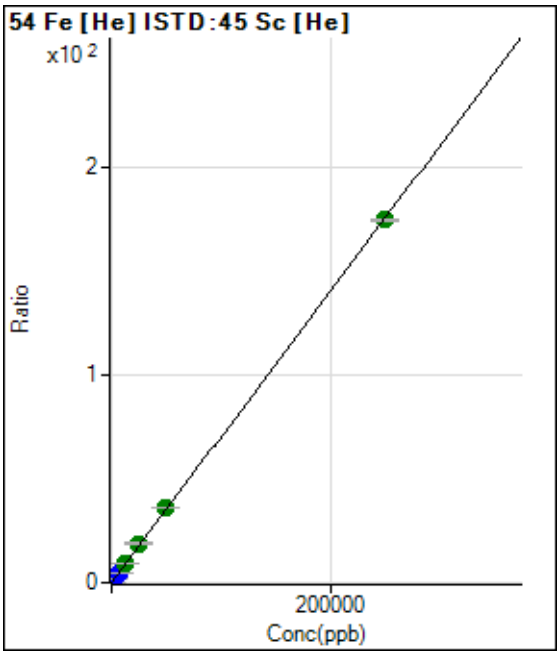
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533.35	0.0028	P	8.6
2	☐	2.000	2.055	7771.05	0.0400	P	2.4
3	☐	50.000	52.138	179682.97	0.9452	P	0.3
4	☐	125.000	130.580	450882.29	2.3629	P	0.3
5	☐	250.000	255.723	895393.01	4.6247	P	0.9
6	☐	500.000	514.819	1805768.86	9.3076	A	1.5
7	☐	1000.000	990.355	3575414.25	17.9024	A	1.3
8	☐			7471.35	0.0433	P	5.9

y = 0.0181 * x + 0.0028
R = 0.9998
DL = 0.04042

Weight: <None>
Min Conc: 0

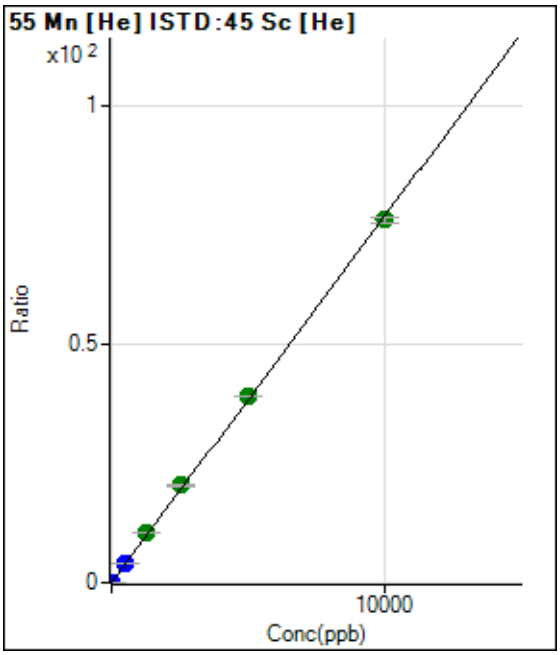


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0013	P	15.3
2	☐	50.000	59.809	8418.11	0.0433	P	2.8
3	☐	2500.000	2790.492	372451.93	1.9592	P	0.2
4	☐	6250.000	7017.530	939719.74	4.9249	P	1.1
5	☐	12500.000	13770.959	1870837.75	9.6631	A	1.4
6	☐	25000.000	27054.175	3682783.66	18.9826	A	0.6
7	☐	50000.000	51553.482	7224265.31	36.1714	A	0.7
8	☐	250000.00	249398.24	30238036.77	174.9797	A	0.7

y = 7.0160E-004 * x + 0.0013
R = 1.0000
DL = 0.8792

Weight: <None>
Min Conc: 0

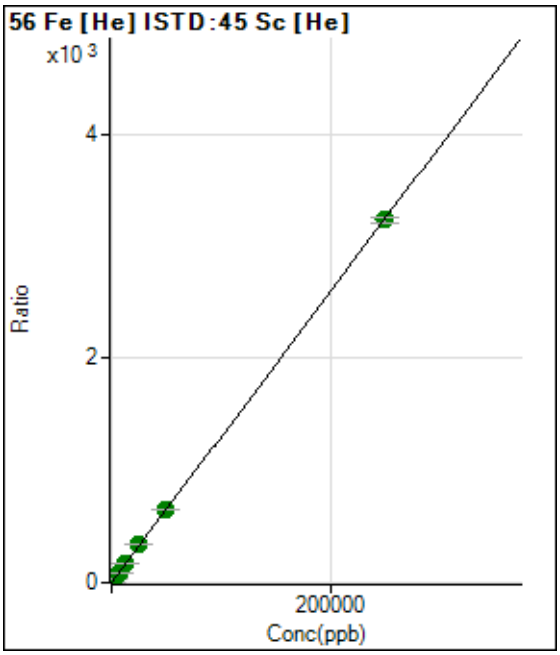
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0004	P	18.3
2	☐	1.000	1.088	1691.23	0.0087	P	6.4
3	☐	500.000	525.753	767617.06	4.0378	P	0.3
4	☐	1250.000	1364.496	1999515.39	10.4787	A	0.4
5	☐	2500.000	2651.916	3942775.15	20.3652	A	1.8
6	☐	5000.000	5078.382	7566194.19	38.9988	A	0.2
7	☐	10000.000	9907.230	15194372.13	76.0810	A	1.6
8	☐			4944.37	0.0286	P	5.8

y = 0.0077 * x + 3.5330E-004
R = 0.9998
DL = 0.02522

Weight: <None>
Min Conc: 0

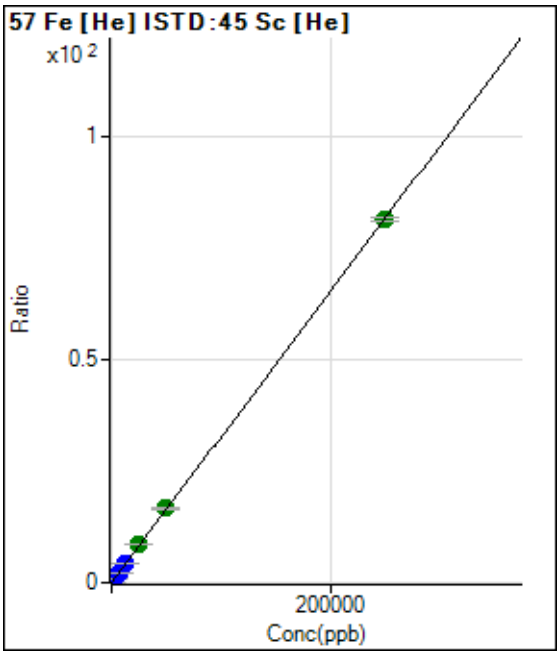


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3242.63	0.0172	P	7.2
2	☐	50.000	57.348	147884.64	0.7609	P	3.8
3	☐	2500.000	2755.896	6797332.95	35.7546	A	0.8
4	☐	6250.000	6903.192	17084053.22	89.5351	A	1.7
5	☐	12500.000	13601.728	34153088.38	176.3991	A	0.5
6	☐	25000.000	26394.147	66406351.23	342.2863	A	0.5
7	☐	50000.000	50440.522	130629566.9	654.1104	A	1.8
8	☐	250000.00	249698.50	559525831.6	3,238.010	A	1.4

y = 0.0130 * x + 0.0172
R = 1.0000
DL = 0.2871

Weight: <None>
Min Conc: 0

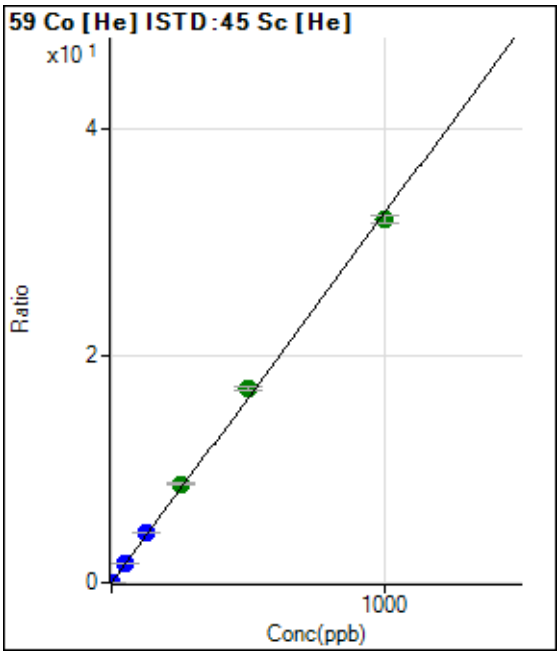
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.33	0.0004	P	10.4
2	☐	50.000	56.188	3648.28	0.0188	P	4.0
3	☐	2500.000	2732.642	169545.91	0.8918	P	0.1
4	☐	6250.000	6803.310	423547.85	2.2197	P	1.0
5	☐	12500.000	13387.928	845626.62	4.3676	P	0.6
6	☐	25000.000	26666.519	1687710.24	8.6992	A	1.1
7	☐	50000.000	51072.127	3327396.37	16.6604	A	1.0
8	☐	250000.00	249558.36	14067407.85	81.4073	A	1.2

y = 3.2620E-004 * x + 4.4145E-004
R = 1.0000
DL = 0.4221

Weight: <None>
Min Conc: 0

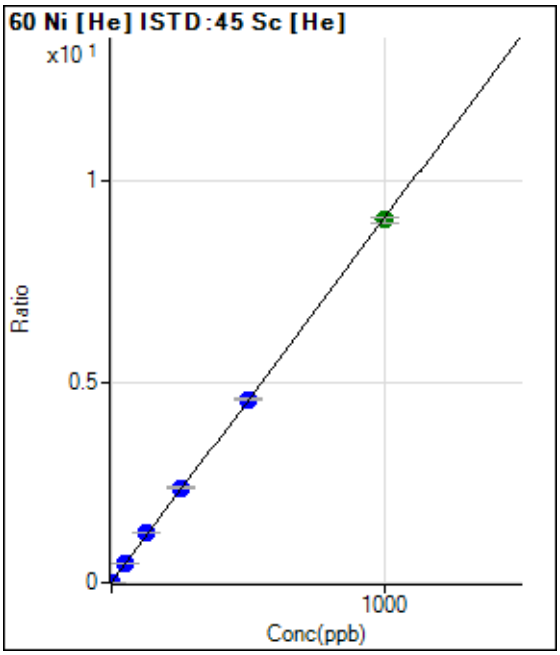


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0005	P	12.9
2	☐	1.000	1.122	7217.45	0.0371	P	3.3
3	☐	50.000	54.368	337456.32	1.7751	P	0.1
4	☐	125.000	136.254	848700.63	4.4478	P	1.0
5	☐	250.000	266.567	1684618.15	8.7012	A	1.3
6	☐	500.000	525.036	3324821.76	17.1376	A	1.3
7	☐	1000.000	981.715	6399170.05	32.0435	A	2.1
8	☐			12060.77	0.0698	P	2.0

y = 0.0326 * x + 5.1236E-004
R = 0.9993
DL = 0.006069

Weight: <None>
Min Conc: 0

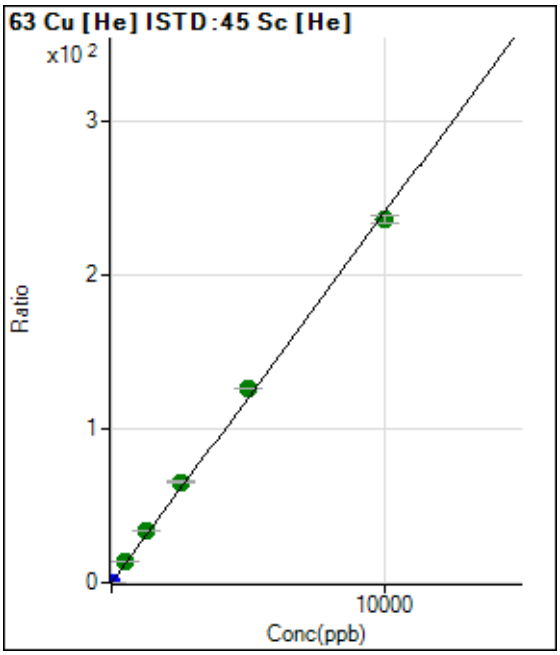
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1225.62	0.0065	P	6.1
2	☐	1.000	1.082	3169.28	0.0163	P	5.7
3	☐	50.000	54.154	94653.97	0.4979	P	0.7
4	☐	125.000	134.566	234238.97	1.2276	P	0.9
5	☐	250.000	260.436	458801.49	2.3697	P	1.1
6	☐	500.000	502.320	885571.53	4.5646	P	1.0
7	☐	1000.000	994.827	1804120.56	9.0338	A	1.6
8	☐			7261.91	0.0420	P	2.5

y = 0.0091 * x + 0.0065
R = 0.9999
DL = 0.1304

Weight: <None>
Min Conc: 0

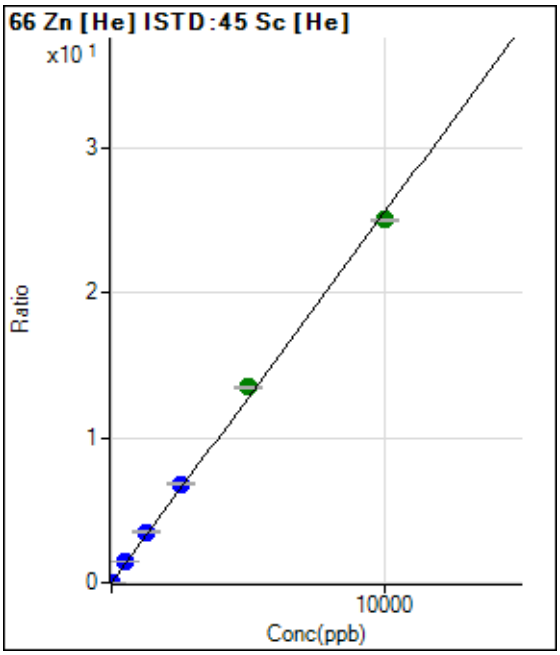


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4436.29	0.0235	P	3.0
2	☐	2.000	2.280	15213.81	0.0783	P	3.4
3	☐	500.000	566.410	2591381.16	13.6311	A	0.5
4	☐	1250.000	1400.344	6423928.52	33.6658	A	0.7
5	☐	2500.000	2719.341	12653070.79	65.3538	A	1.2
6	☐	5000.000	5236.396	24411073.80	125.8244	A	0.3
7	☐	10000.000	9804.853	47045869.30	235.5785	A	2.0
8	☐			12263.16	0.0710	P	4.3

y = 0.0240 * x + 0.0235
R = 0.9993
DL = 0.08733

Weight: <None>
Min Conc: 0

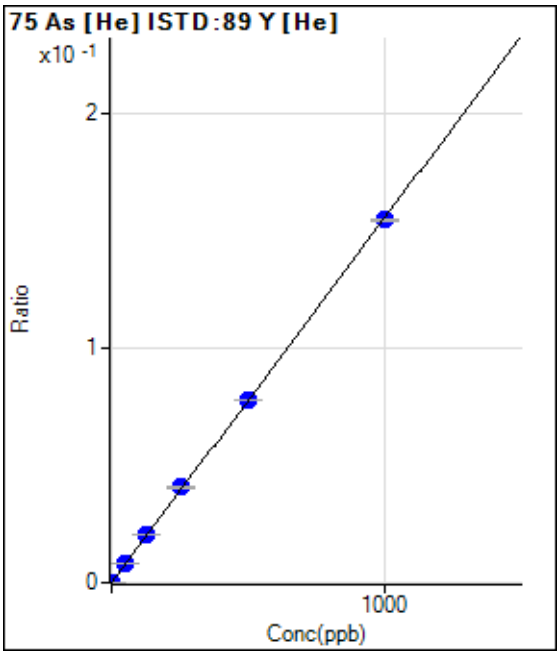
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.01	0.0017	P	9.1
2	☐	5.000	5.463	3050.36	0.0157	P	5.8
3	☐	500.000	547.950	266397.48	1.4013	P	0.2
4	☐	1250.000	1372.881	669423.81	3.5083	P	1.1
5	☐	2500.000	2671.053	1321216.01	6.8240	P	0.6
6	☐	5000.000	5280.452	2617009.44	13.4888	A	0.9
7	☐	10000.000	9799.253	4999190.14	25.0306	A	0.7
8	☐			6340.36	0.0367	P	1.0

y = 0.0026 * x + 0.0017
R = 0.9992
DL = 0.1875

Weight: <None>
Min Conc: 0

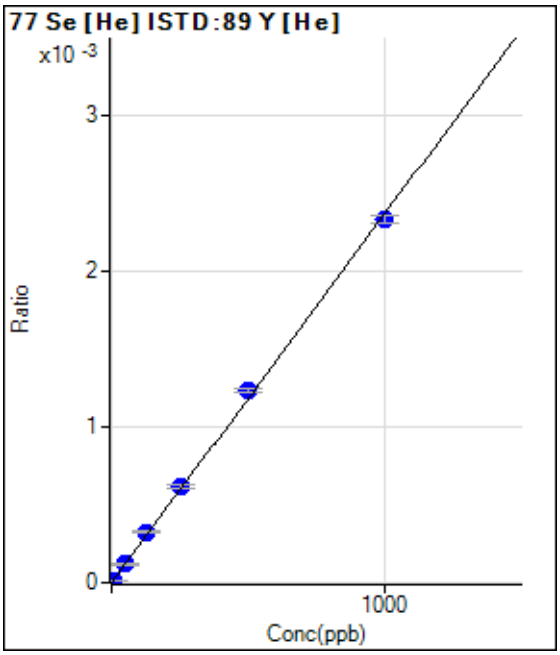


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	1.000	1.009	296.68	0.0002	P	4.5
3	☐	50.000	51.734	14836.81	0.0080	P	2.5
4	☐	125.000	133.808	38524.74	0.0208	P	0.9
5	☐	250.000	262.018	76577.60	0.0407	P	1.7
6	☐	500.000	501.047	149712.05	0.0779	P	0.5
7	☐	1000.000	995.284	297302.39	0.1548	P	0.4
8	☐			147.78	0.0001	P	19.8

y = 1.5550E-004 * x + 1.2260E-006
R = 0.9999
DL = 0.04097

Weight: <None>
Min Conc: 0

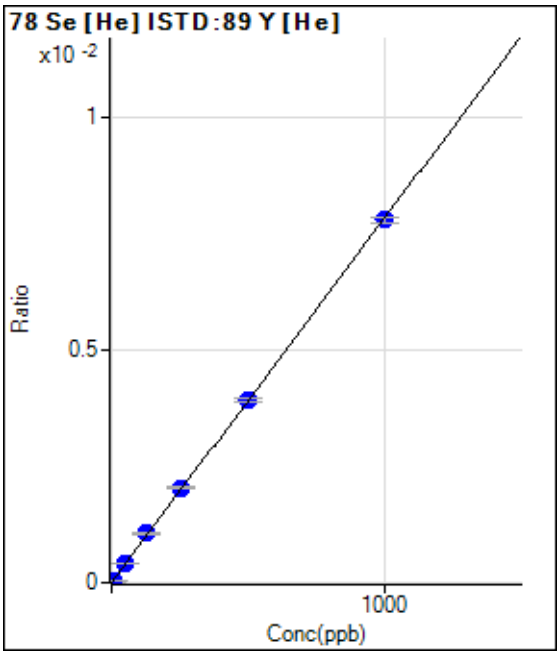
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.507	28.89	0.0000	P	16.1
3	☐	50.000	51.560	224.45	0.0001	P	9.0
4	☐	125.000	137.036	598.91	0.0003	P	5.3
5	☐	250.000	261.354	1160.06	0.0006	P	2.7
6	☐	500.000	521.956	2368.01	0.0012	P	2.8
7	☐	1000.000	984.594	4465.19	0.0023	P	2.2
8	☐			4.45	0.0000	P	86.6

y = 2.3612E-006 * x + 0.0000E+000
R = 0.9995
DL = 0

Weight: <None>
Min Conc: 0

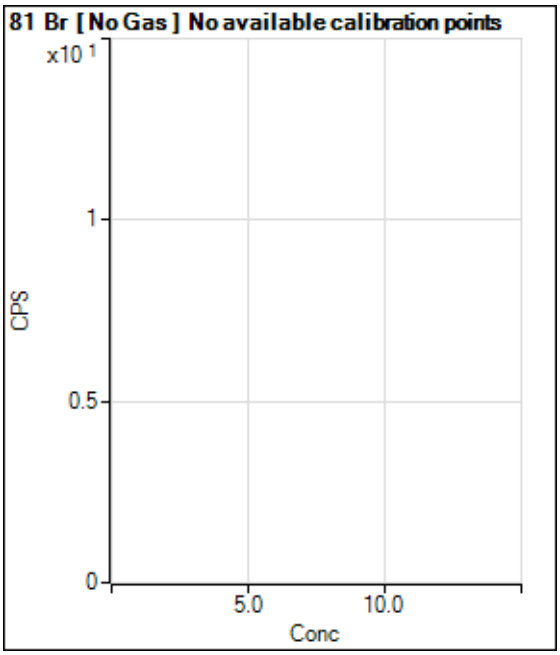


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	115.
2	☐	5.000	6.184	95.55	0.0001	P	4.6
3	☐	50.000	53.164	773.37	0.0004	P	4.5
4	☐	125.000	136.318	1983.49	0.0011	P	3.3
5	☐	250.000	259.317	3826.12	0.0020	P	2.7
6	☐	500.000	501.272	7558.78	0.0039	P	2.1
7	☐	1000.000	995.456	15000.33	0.0078	P	1.4
8	☐			11.11	0.0000	P	62.0

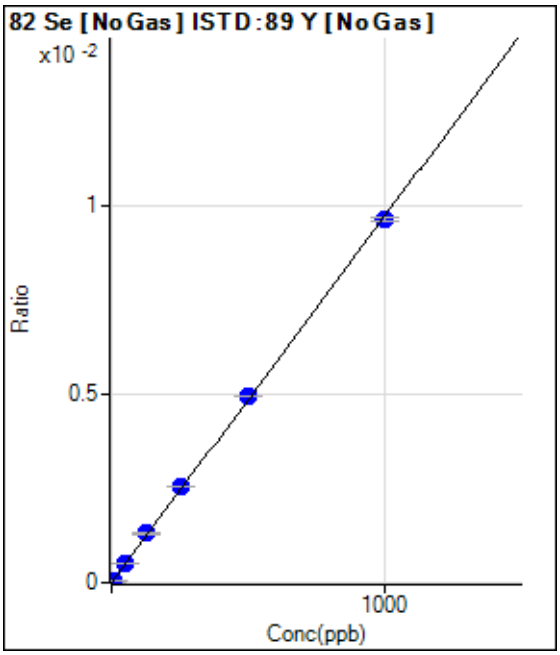
y = 7.8421E-006 * x + 2.4433E-006
R = 0.9999
DL = 1.075

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6713.89		P	4.0
2	☐			6871.76		P	0.2
3	☐			7047.39		P	2.5
4	☐			7241.93		P	2.9
5	☐			7647.71		P	1.7
6	☐			7808.92		P	2.0
7	☐			7977.90		P	2.3
8	☐			8232.50		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.77	0.0000	P	161.
2	☐	5.000	5.321	1403.43	0.0001	P	1.5
3	☐	50.000	53.516	13997.28	0.0005	P	1.7
4	☐	125.000	134.532	34898.36	0.0013	P	1.4
5	☐	250.000	262.173	69551.22	0.0026	P	0.5
6	☐	500.000	509.453	134555.03	0.0050	P	0.7
7	☐	1000.000	990.861	265731.33	0.0096	P	1.1
8	☐			8.89	0.0000	P	426.

y = 9.7273E-006 * x + 1.0455E-006

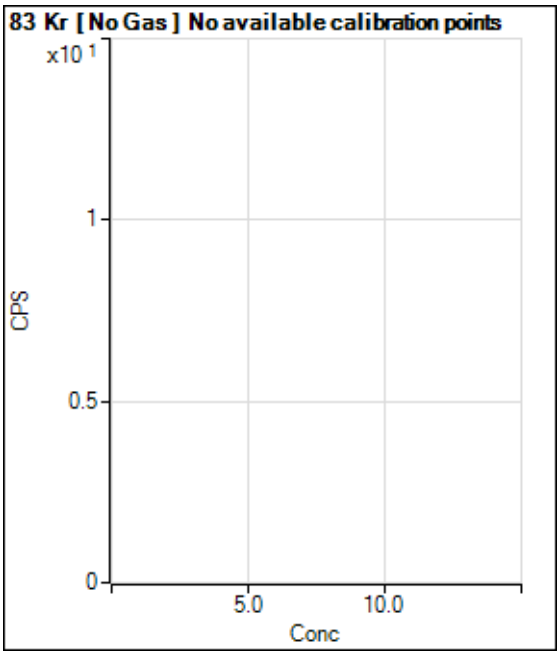
R = 0.9998

DL = 0.52

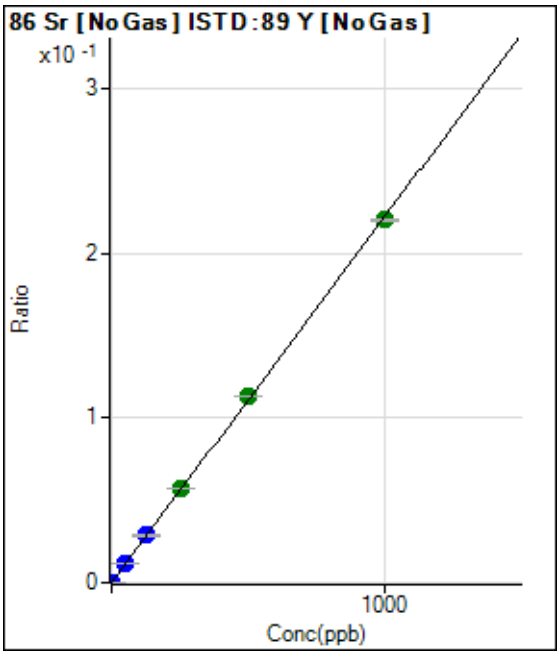
Weight: <None>

Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			181.12		P	3.8
2	☐			188.89		P	12.8
3	☐			224.45		P	11.3
4	☐			224.45		P	15.5
5	☐			195.56		P	6.5
6	☐			267.78		P	14.3
7	☐			292.23		P	16.6
8	☐			404.45		P	7.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	373.34	0.0000	P	14.9
2	☐	1.000	1.010	6329.28	0.0002	P	2.6
3	☐	50.000	50.838	303100.89	0.0113	P	1.4
4	☐	125.000	129.078	763740.91	0.0287	P	0.5
5	☐	250.000	259.167	1568342.39	0.0575	A	0.6
6	☐	500.000	509.802	3071584.54	0.1131	A	0.8
7	☐	1000.000	992.256	6070754.07	0.2202	A	0.8
8	☐			14547.68	0.0006	P	1.9

y = 2.2192E-004 * x + 1.4088E-005

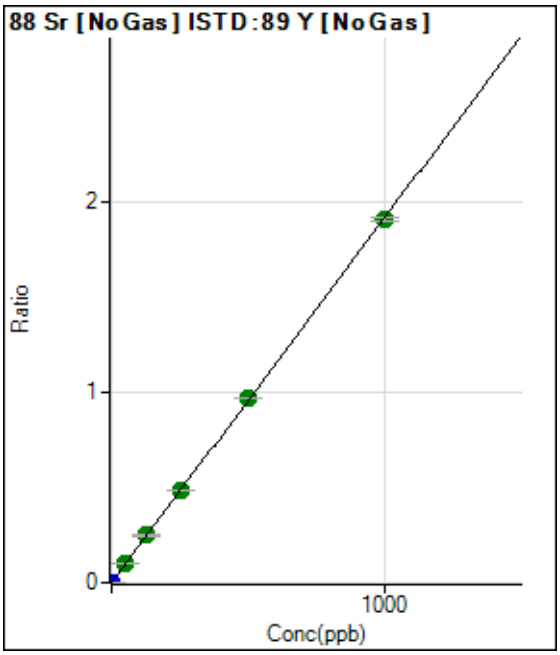
R = 0.9999

DL = 0.02832

Weight: <None>

Min Conc: 0

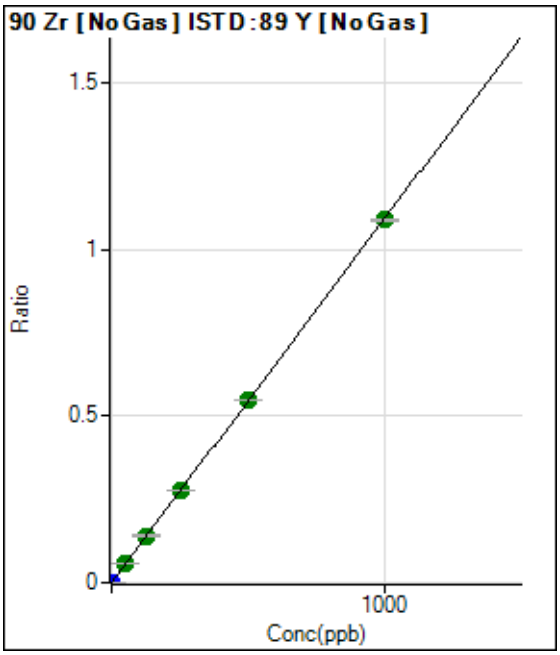
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	262.23	0.0000	P	13.7
2	☐	1.000	1.016	51859.10	0.0020	P	0.9
3	☐	50.000	51.812	2657016.76	0.0990	A	1.3
4	☐	125.000	129.761	6608120.74	0.2480	A	0.9
5	☐	250.000	252.660	13162869.11	0.4828	A	0.9
6	☐	500.000	507.548	26329759.60	0.9699	A	0.2
7	☐	1000.000	994.875	52410720.89	1.9012	A	1.1
8	☐			125702.84	0.0053	P	1.4

y = 0.0019 * x + 9.8874E-006
R = 0.9999
DL = 0.002132

Weight: <None>
Min Conc: 0

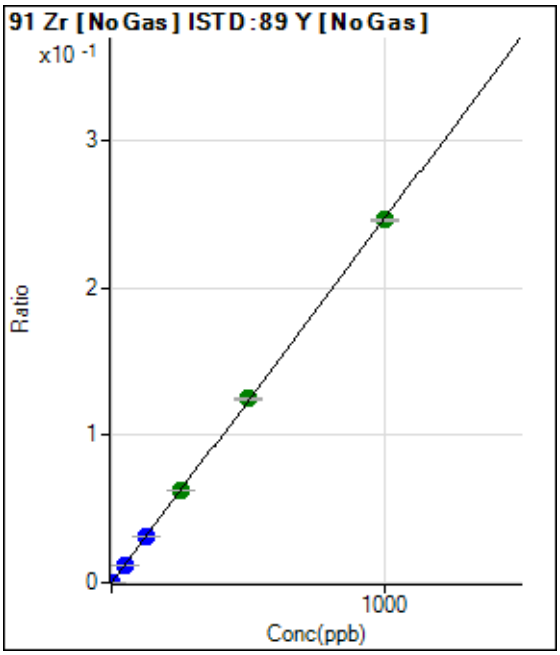


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	842.26	0.0000	P	3.2
2	☐	1.000	1.060	31660.35	0.0012	P	0.7
3	☐	50.000	51.489	1511682.76	0.0563	A	1.6
4	☐	125.000	129.175	3764874.46	0.1413	A	1.5
5	☐	250.000	253.085	7545669.20	0.2768	A	0.3
6	☐	500.000	503.433	14945739.78	0.5506	A	0.4
7	☐	1000.000	996.916	30053992.33	1.0902	A	0.8
8	☐			15937.03	0.0007	P	4.9

y = 0.0011 * x + 3.1763E-005
R = 1.0000
DL = 0.002816

Weight: <None>
Min Conc: 0

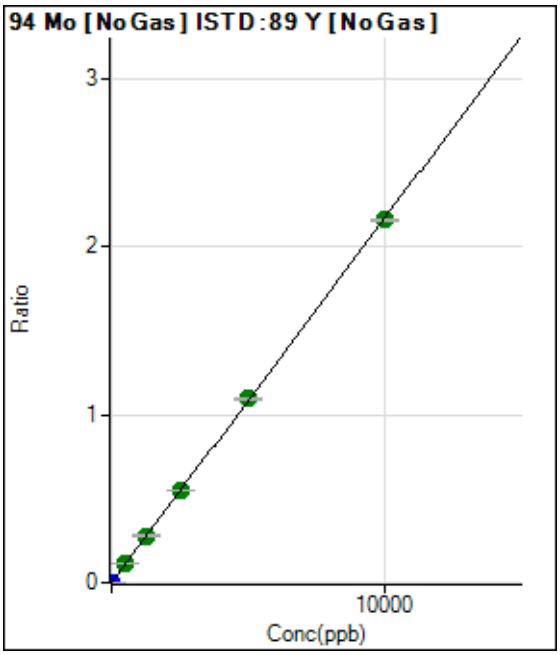
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	198.89	0.0000	P	18.3
2	☐	1.000	1.005	6785.05	0.0003	P	3.1
3	☐	50.000	49.575	328295.49	0.0122	P	2.0
4	☐	125.000	125.137	822692.96	0.0309	P	0.6
5	☐	250.000	253.544	1705002.39	0.0625	A	0.9
6	☐	500.000	504.585	3378793.42	0.1245	A	0.9
7	☐	1000.000	996.825	6778198.09	0.2459	A	0.7
8	☐			3637.18	0.0002	P	2.5

y = 2.4665E-004 * x + 7.5002E-006
R = 1.0000
DL = 0.01672

Weight: <None>
Min Conc: 0

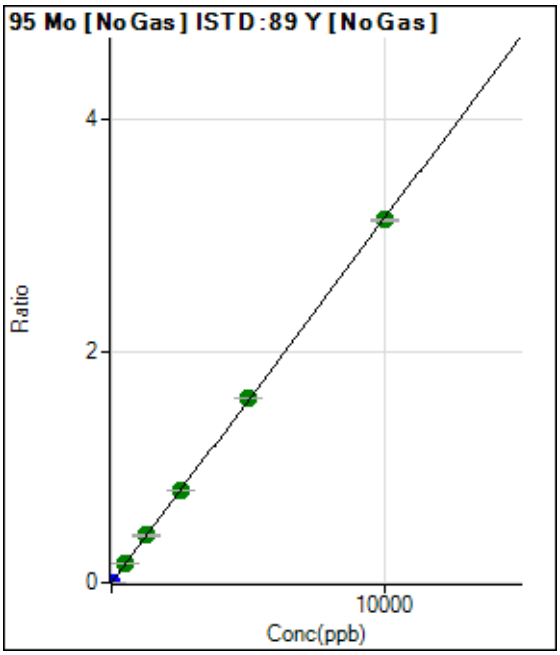


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	328.90	0.0000	P	14.0
2	☐	5.000	6.233	36220.43	0.0014	P	2.2
3	☐	500.000	511.705	2975544.99	0.1109	A	1.8
4	☐	1250.000	1290.289	7450729.75	0.2796	A	1.0
5	☐	2500.000	2535.388	14977262.97	0.5494	A	1.3
6	☐	5000.000	5046.188	29684472.06	1.0935	A	0.3
7	☐	10000.000	9962.437	59513277.45	2.1588	A	0.3
8	☐			14276.46	0.0006	P	16.1

y = 2.1669E-004 * x + 1.2399E-005
R = 1.0000
DL = 0.02404

Weight: <None>
Min Conc: 0

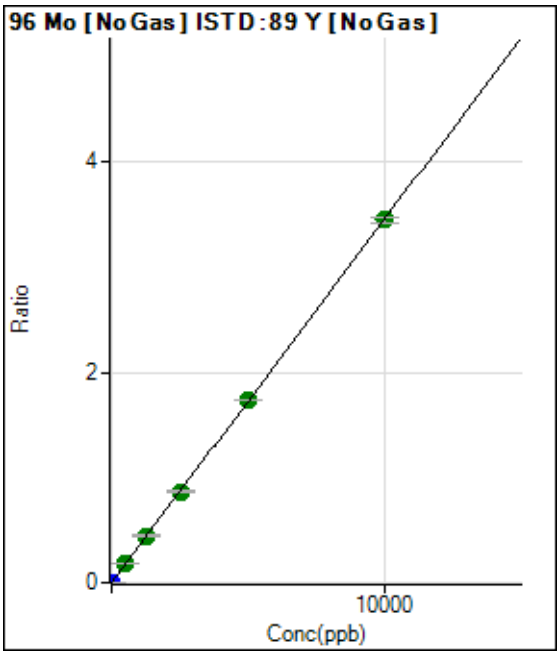
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	115.56	0.0000	P	21.5
2	☐	5.000	5.271	44187.75	0.0017	P	1.3
3	☐	500.000	511.635	4319374.80	0.1610	A	1.6
4	☐	1250.000	1293.524	10844540.53	0.4070	A	0.9
5	☐	2500.000	2526.748	21671124.95	0.7950	A	1.1
6	☐	5000.000	5058.805	43206127.13	1.5916	A	0.5
7	☐	10000.000	9957.888	86367316.49	3.1329	A	0.4
8	☐			14403.24	0.0006	P	13.2

y = 3.1462E-004 * x + 4.3549E-006
R = 1.0000
DL = 0.008916

Weight: <None>
Min Conc: 0

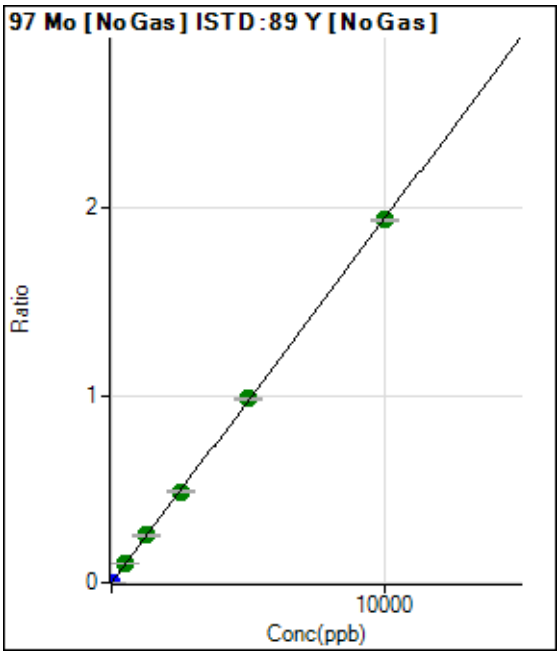


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.78	0.0000	P	17.6
2	☐	5.000	5.292	48742.83	0.0018	P	0.7
3	☐	500.000	511.005	4735959.62	0.1765	A	1.2
4	☐	1250.000	1293.401	11904002.74	0.4467	A	0.6
5	☐	2500.000	2503.306	23568440.48	0.8646	A	1.5
6	☐	5000.000	5020.954	47075909.30	1.7341	A	0.4
7	☐	10000.000	9982.721	95046579.70	3.4478	A	1.3
8	☐			18777.45	0.0008	P	12.3

y = 3.4538E-004 * x + 6.3299E-006
R = 1.0000
DL = 0.00967

Weight: <None>
Min Conc: 0

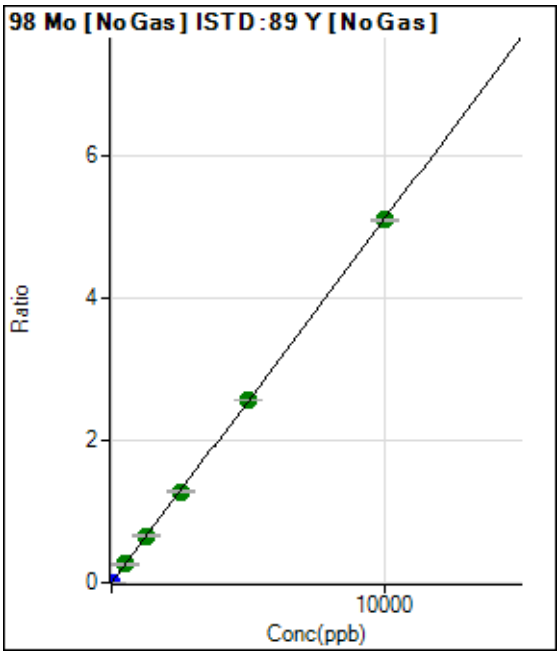
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0000	P	18.9
2	☐	5.000	5.280	27379.27	0.0010	P	1.0
3	☐	500.000	510.131	2663998.68	0.0993	A	1.5
4	☐	1250.000	1297.828	6730159.20	0.2526	A	1.5
5	☐	2500.000	2508.677	13308633.00	0.4882	A	1.6
6	☐	5000.000	5048.874	26673502.38	0.9826	A	1.0
7	☐	10000.000	9966.909	53472244.76	1.9397	A	0.8
8	☐			7060.78	0.0003	P	14.7

y = 1.9461E-004 * x + 2.6803E-006
R = 1.0000
DL = 0.007828

Weight: <None>
Min Conc: 0

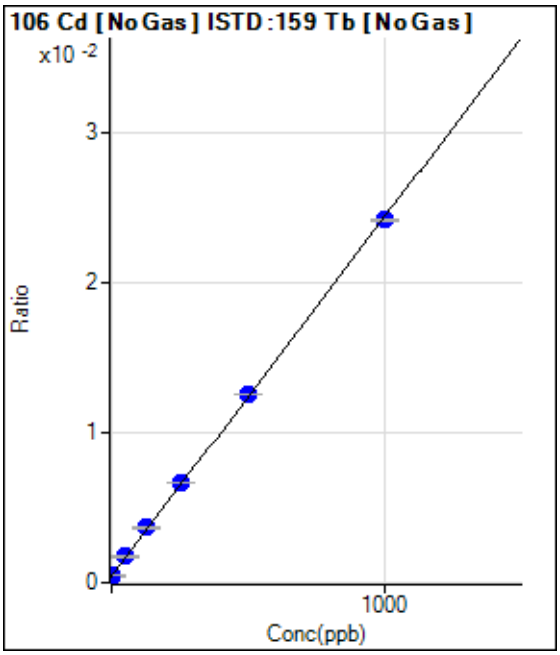


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0000	P	8.2
2	☐	5.000	5.231	71302.84	0.0027	P	1.4
3	☐	500.000	505.049	6933663.37	0.2584	A	1.3
4	☐	1250.000	1293.543	17635784.46	0.6618	A	1.3
5	☐	2500.000	2507.265	34969910.59	1.2828	A	0.5
6	☐	5000.000	5026.878	69817791.74	2.5719	A	0.2
7	☐	10000.000	9979.049	140748210.1	5.1056	A	0.3
8	☐			17392.43	0.0007	P	17.7

y = 5.1163E-004 * x + 6.5371E-006
R = 1.0000
DL = 0.003157

Weight: <None>
Min Conc: 0

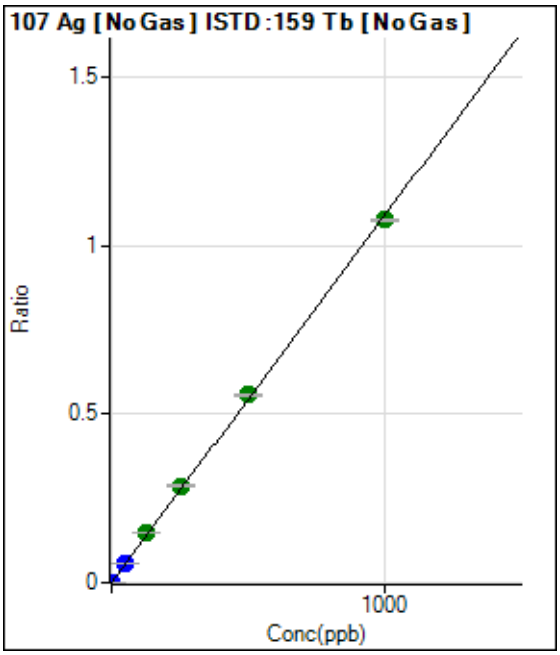
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8643.87	0.0004	P	3.7
2	☐	1.000	1.009	9127.55	0.0005	P	2.6
3	☐	50.000	53.809	34108.70	0.0017	P	2.1
4	☐	125.000	134.330	71863.50	0.0037	P	1.3
5	☐	250.000	260.627	133040.58	0.0067	P	1.4
6	☐	500.000	507.181	251944.02	0.0126	P	0.5
7	☐	1000.000	992.396	484666.21	0.0242	P	0.6
8	☐			7335.35	0.0004	P	2.3

y = 2.3943E-005 * x + 4.4521E-004
R = 0.9999
DL = 2.06

Weight: <None>
Min Conc: 0

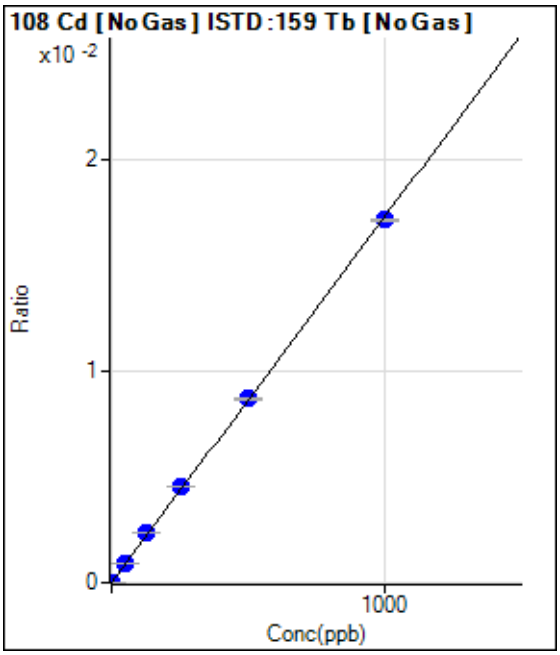


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.89	0.0000	P	6.9
2	☐	1.000	1.064	22709.90	0.0012	P	0.8
3	☐	50.000	53.123	1137683.72	0.0578	P	0.9
4	☐	125.000	135.839	2901224.19	0.1478	A	2.1
5	☐	250.000	264.523	5728422.62	0.2879	A	0.9
6	☐	500.000	512.117	11152943.31	0.5573	A	0.8
7	☐	1000.000	988.800	21544183.29	1.0760	A	0.6
8	☐			3228.20	0.0002	P	18.8

y = 0.0011 * x + 9.7304E-006
R = 0.9997
DL = 0.001859

Weight: <None>
Min Conc: 0

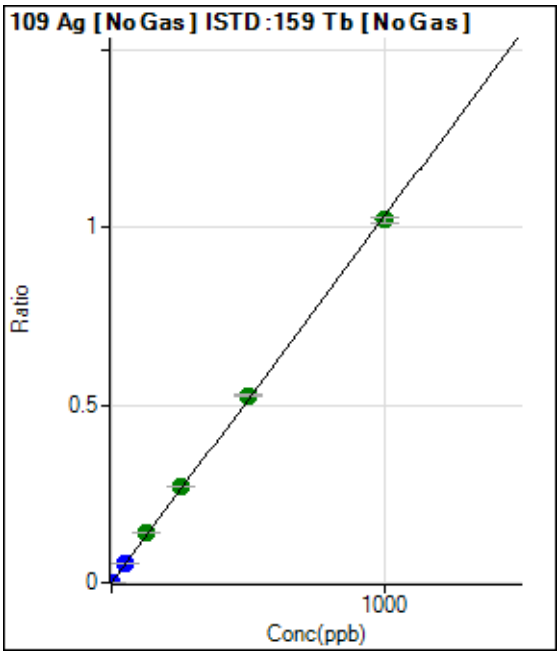
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.56	0.0000	P	33.0
2	☐	1.000	1.147	401.12	0.0000	P	15.4
3	☐	50.000	54.152	18415.69	0.0009	P	1.4
4	☐	125.000	136.611	46314.12	0.0024	P	1.2
5	☐	250.000	263.075	90413.74	0.0045	P	1.4
6	☐	500.000	504.380	174316.81	0.0087	P	1.0
7	☐	1000.000	992.882	343288.06	0.0171	P	0.6
8	☐			164.45	0.0000	P	20.6

y = 1.7267E-005 * x + 8.0183E-007
R = 0.9999
DL = 0.04591

Weight: <None>
Min Conc: 0

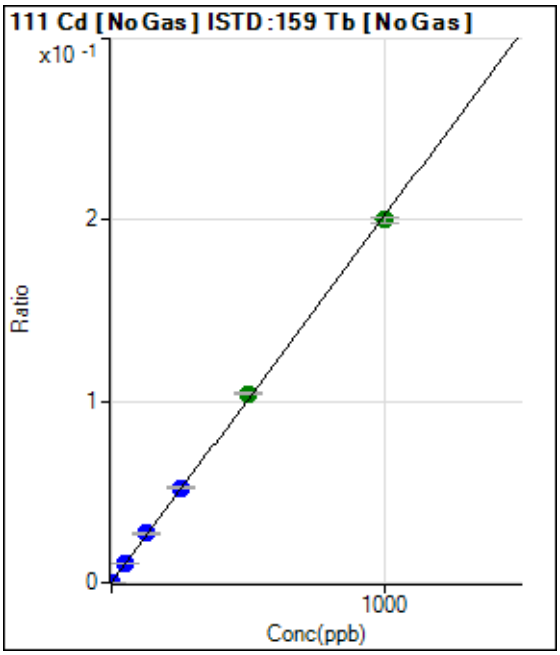


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	4.5
2	☐	1.000	1.075	21622.62	0.0011	P	2.2
3	☐	50.000	53.659	1088103.97	0.0553	P	1.0
4	☐	125.000	137.887	2788986.14	0.1421	A	0.4
5	☐	250.000	263.405	5401752.91	0.2714	A	0.6
6	☐	500.000	509.895	10515799.29	0.5254	A	0.9
7	☐	1000.000	989.907	20423629.00	1.0201	A	1.6
8	☐			2920.35	0.0002	P	23.0

y = 0.0010 * x + 4.1210E-006
R = 0.9998
DL = 0.0005429

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1734.55	0.0001	P	4.0
2	☐	1.000	1.141	6226.68	0.0003	P	3.3
3	☐	50.000	52.687	211493.23	0.0107	P	1.2
4	☐	125.000	134.054	533998.94	0.0272	P	1.5
5	☐	250.000	259.061	1044697.24	0.0525	P	1.2
6	☐	500.000	515.365	2088327.07	0.1043	A	1.0
7	☐	1000.000	988.786	4006757.51	0.2001	A	1.4
8	☐			2257.55	0.0001	P	6.0

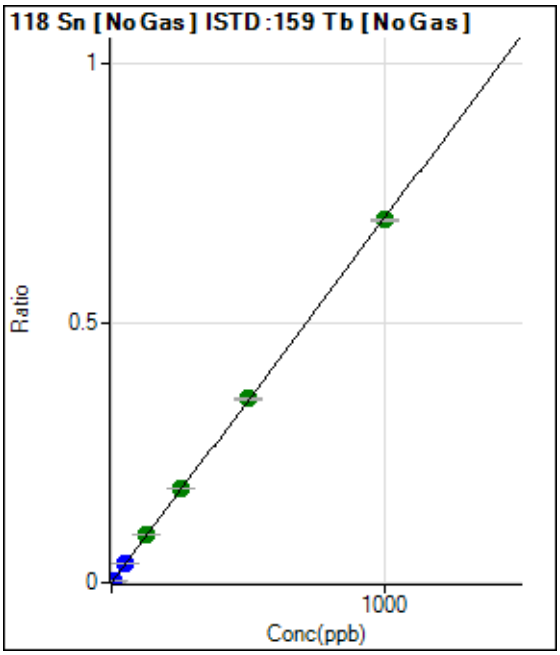
y = 2.0230E-004 * x + 8.9340E-005

R = 0.9998

DL = 0.05315

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1381.20	0.0001	P	9.8
2	☐	5.000	5.335	74306.70	0.0038	P	2.1
3	☐	50.000	51.847	718544.17	0.0365	P	0.9
4	☐	125.000	131.425	1814516.99	0.0925	A	2.1
5	☐	250.000	258.046	3611201.72	0.1815	A	0.4
6	☐	500.000	503.905	7090489.06	0.3543	A	0.6
7	☐	1000.000	995.139	14007363.96	0.6996	A	0.7
8	☐			4112.88	0.0002	P	6.8

y = 7.0294E-004 * x + 7.1137E-005

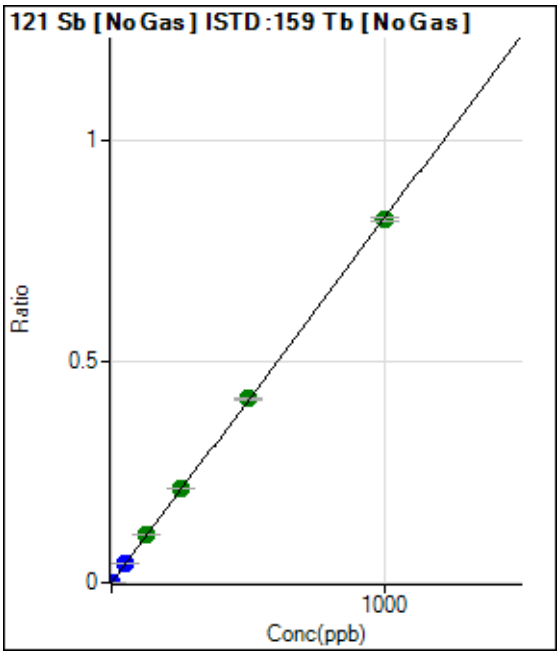
R = 0.9999

DL = 0.02982

Weight: <None>

Min Conc: 0

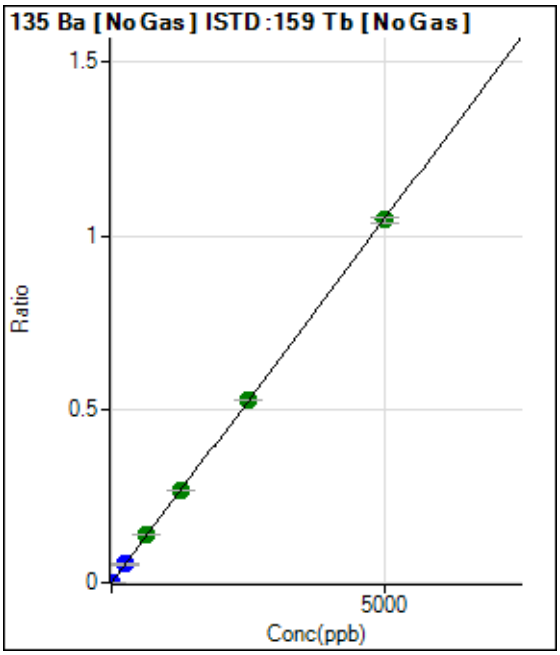
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	11.5
2	☐	2.000	2.118	33982.24	0.0017	P	0.8
3	☐	50.000	50.969	826521.01	0.0420	P	1.1
4	☐	125.000	132.771	2147432.75	0.1094	A	1.7
5	☐	250.000	258.177	4233941.60	0.2128	A	0.8
6	☐	500.000	503.750	8308116.61	0.4151	A	0.3
7	☐	1000.000	995.061	16418047.12	0.8200	A	1.1
8	☐			9816.93	0.0006	P	3.1

y = 8.2407E-004 * x + 2.3471E-006
R = 0.9999
DL = 0.0009798

Weight: <None>
Min Conc: 0

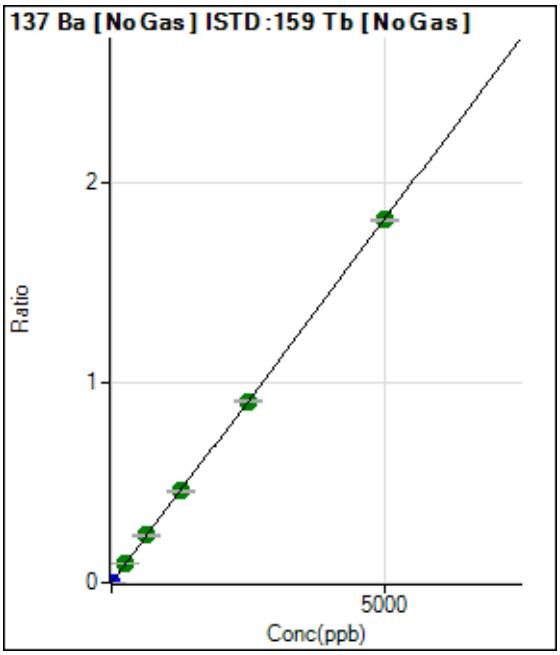


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.22	0.0000	P	9.5
2	☐	10.000	10.694	43733.72	0.0022	P	3.1
3	☐	250.000	252.418	1041517.40	0.0529	P	1.1
4	☐	625.000	658.274	2709104.91	0.1380	A	0.9
5	☐	1250.000	1266.460	5284361.69	0.2655	A	1.1
6	☐	2500.000	2508.642	10526672.90	0.5260	A	0.8
7	☐	5000.000	4987.282	20936593.99	1.0457	A	1.3
8	☐			7767.85	0.0004	P	4.0

y = 2.0967E-004 * x + 7.3254E-006
R = 1.0000
DL = 0.00991

Weight: <None>
Min Conc: 0

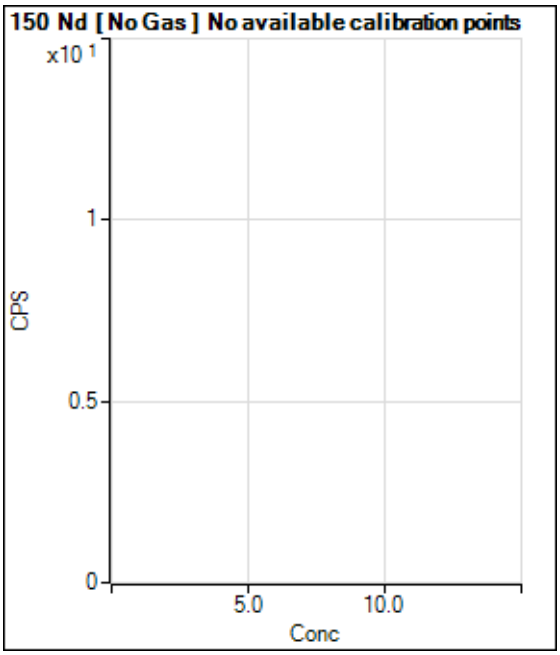
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0000	P	12.0
2	☐	10.000	10.719	75874.21	0.0039	P	0.9
3	☐	250.000	259.221	1851598.05	0.0941	A	1.9
4	☐	625.000	651.318	4640146.18	0.2364	A	2.0
5	☐	1250.000	1264.854	9136805.56	0.4591	A	1.3
6	☐	2500.000	2498.303	18149006.26	0.9069	A	0.9
7	☐	5000.000	4993.383	36291883.35	1.8125	A	0.4
8	☐			13876.11	0.0008	P	5.5

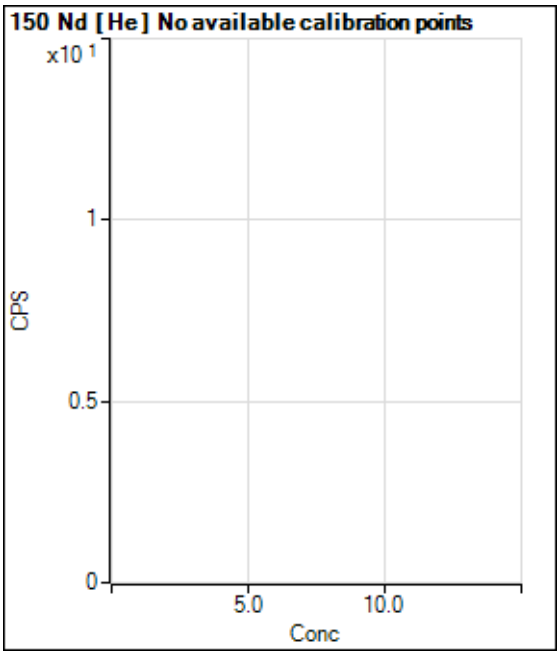
y = 3.6299E-004 * x + 1.0990E-005
R = 1.0000
DL = 0.01087

Weight: <None>
Min Conc: 0

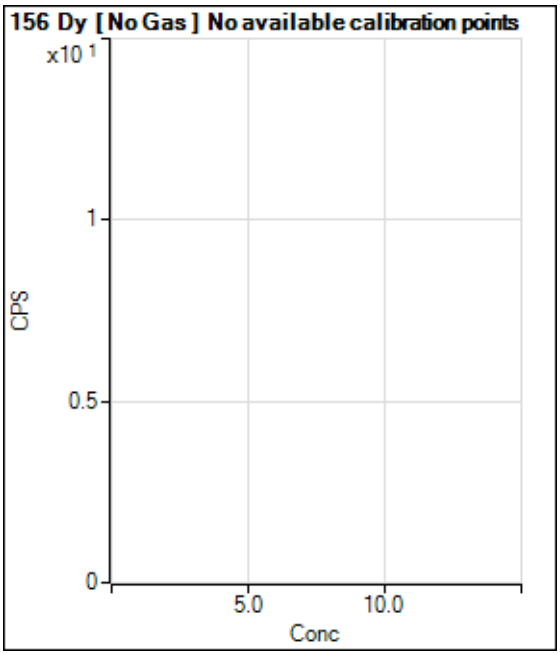


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.00		P	100.
2	☐			21.11		P	39.7
3	☐			96.67		P	26.0
4	☐			251.12		P	7.3
5	☐			471.12		P	2.5
6	☐			882.26		P	3.3
7	☐			1790.14		P	2.0
8	☐			304.45		P	12.1

Reviewed By:Mohan
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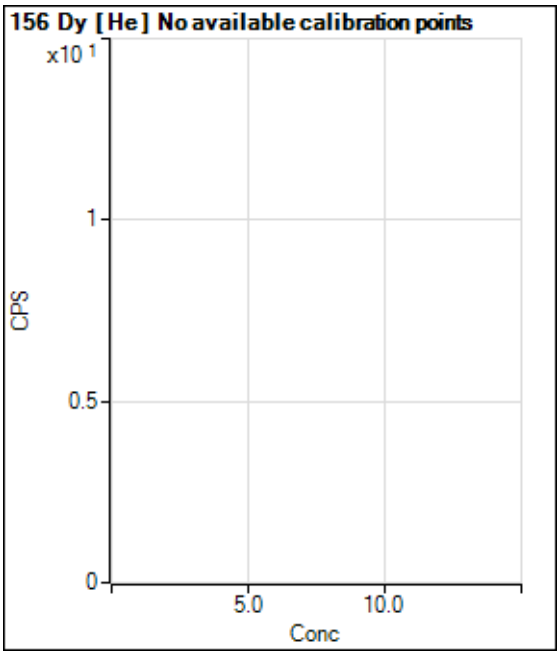


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			8.89		P	21.6
4	☐			6.67		P	86.6
5	☐			21.11		P	39.7
6	☐			33.33		P	30.0
7	☐			44.45		P	37.7
8	☐			87.78		P	4.4

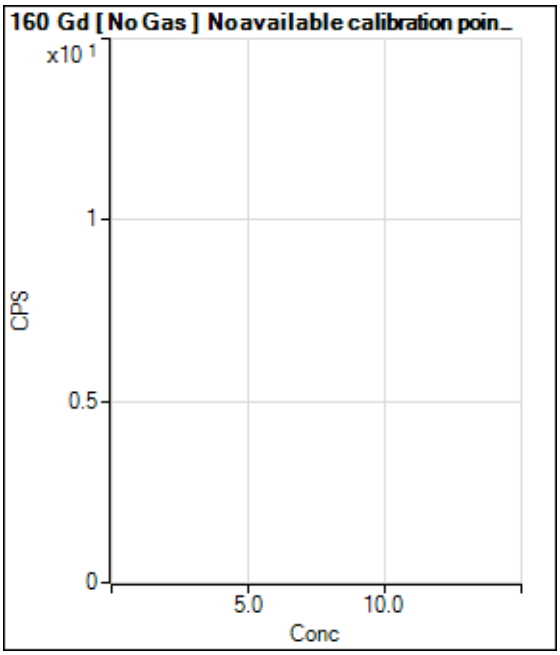


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			15.56		P	32.7
2	☐			31.11		P	12.4
3	☐			44.44		P	38.5
4	☐			75.55		P	35.4
5	☐			113.34		P	20.4
6	☐			214.45		P	17.7
7	☐			408.90		P	13.3
8	☐			637.80		P	7.0

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Inst Id :P8

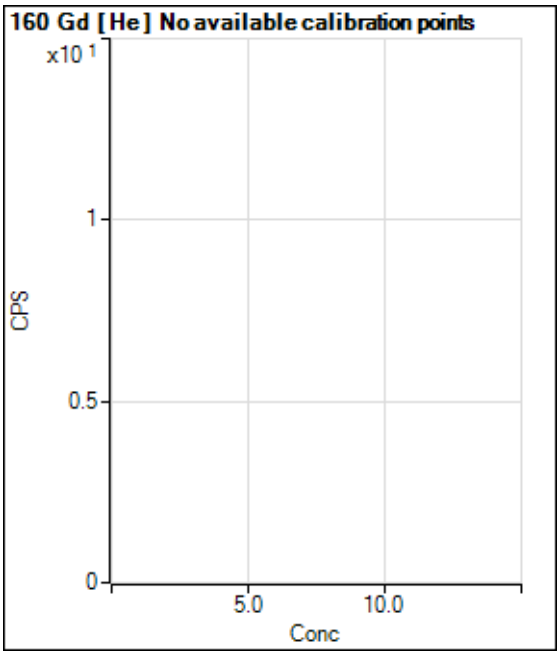


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.
2	☐			6.67		P	50.0
3	☐			8.89		P	57.3
4	☐			15.56		P	32.7
5	☐			11.11		P	34.6
6	☐			25.56		P	39.8
7	☐			65.56		P	32.7
8	☐			170.00		P	3.4

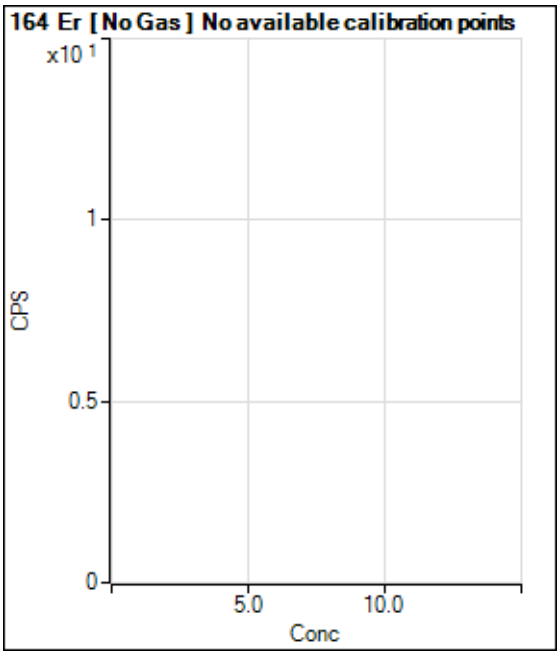


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			96.67		P	12.4
2	☐			90.00		P	3.7
3	☐			92.22		P	19.9
4	☐			133.34		P	12.5
5	☐			154.45		P	21.8
6	☐			154.45		P	2.5
7	☐			276.67		P	7.5
8	☐			696.69		P	3.9

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Inst Id :P8

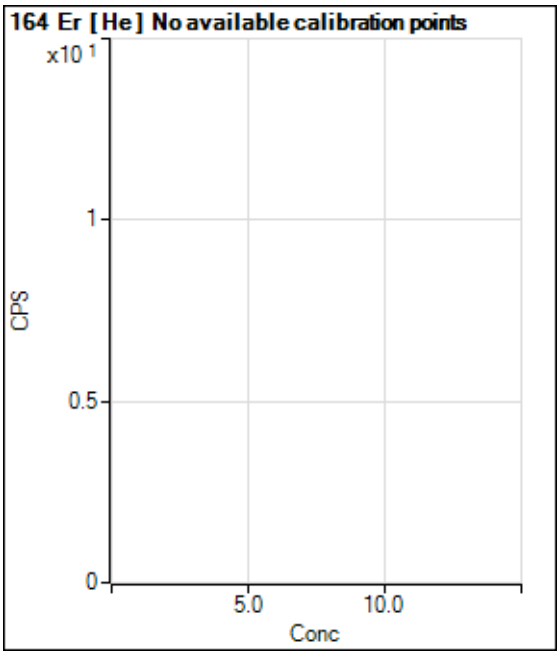


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	25.0
2	☐			23.33		P	37.8
3	☐			16.67		P	20.0
4	☐			18.89		P	56.7
5	☐			30.00		P	33.3
6	☐			48.89		P	3.9
7	☐			75.56		P	16.7
8	☐			238.89		P	11.9

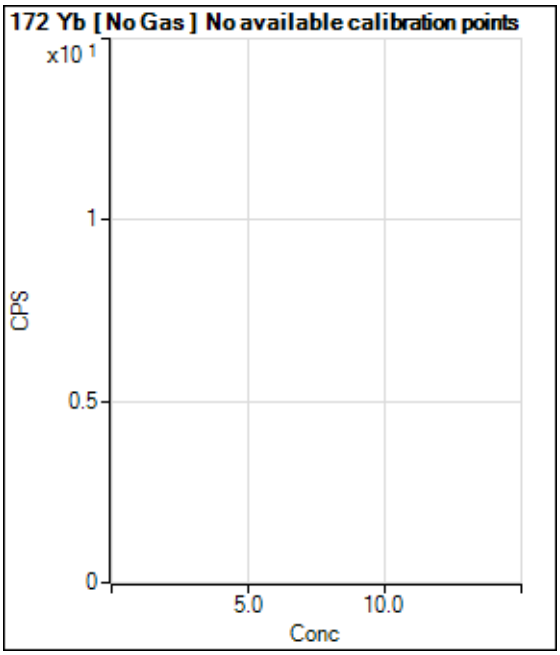


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			114.45		P	11.8
2	☐			87.78		P	9.6
3	☐			127.78		P	29.3
4	☐			140.00		P	17.2
5	☐			171.11		P	4.9
6	☐			183.34		P	11.9
7	☐			283.34		P	11.8
8	☐			708.92		P	6.1

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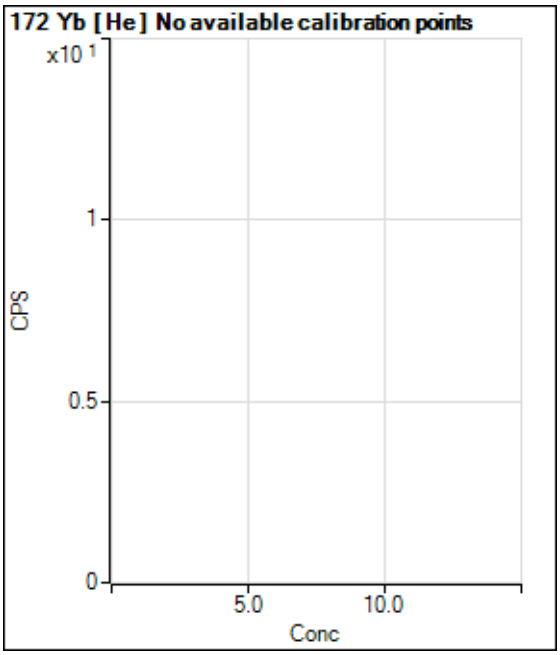


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27.78		P	6.9
2	☐			42.22		P	16.4
3	☐			47.78		P	10.7
4	☐			25.55		P	27.1
5	☐			50.00		P	17.6
6	☐			68.89		P	17.0
7	☐			100.00		P	15.3
8	☐			215.56		P	5.9

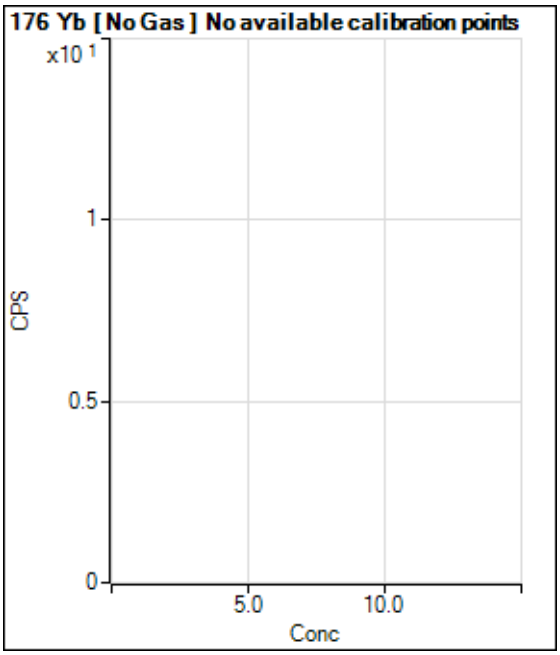


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			114.45		P	8.9
2	☐			125.56		P	18.8
3	☐			110.00		P	23.7
4	☐			137.78		P	11.9
5	☐			163.34		P	14.7
6	☐			206.67		P	8.5
7	☐			295.56		P	14.9
8	☐			788.92		P	12.0

Reviewed By:Mohan
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Inst Id :P8

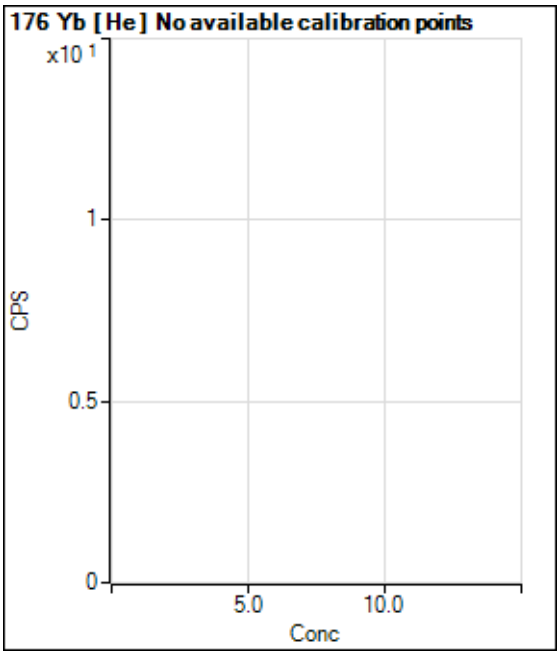


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27.78		P	18.3
2	☐			38.89		P	32.4
3	☐			51.11		P	29.4
4	☐			43.33		P	13.3
5	☐			73.34		P	35.5
6	☐			82.22		P	16.4
7	☐			111.11		P	15.4
8	☐			288.89		P	10.4

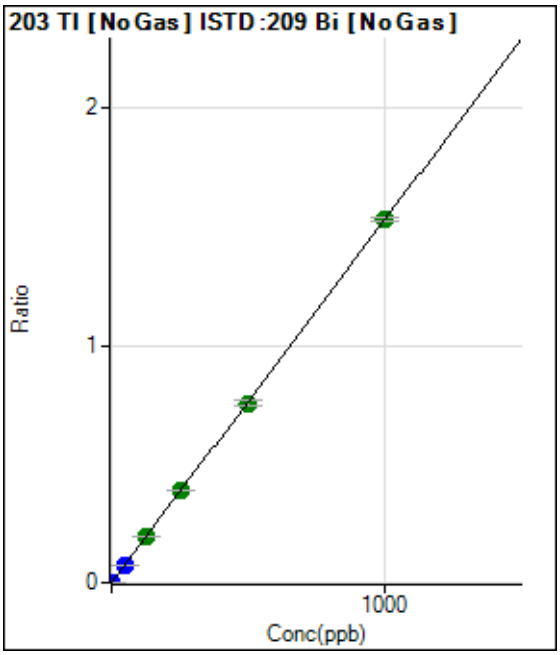


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2601.40		P	5.2
2	☐			2643.63		P	2.5
3	☐			6427.18		P	1.0
4	☐			12444.83		P	1.1
5	☐			22906.63		P	1.8
6	☐			42304.17		P	0.4
7	☐			83560.86		P	0.8
8	☐			2758.09		P	5.0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			416.68		P	7.6
2	☐			395.57		P	9.8
3	☐			1683.46		P	1.3
4	☐			3816.15		P	2.4
5	☐			7093.07		P	2.6
6	☐			13726.10		P	0.7
7	☐			27013.20		P	0.9
8	☐			523.35		P	5.6

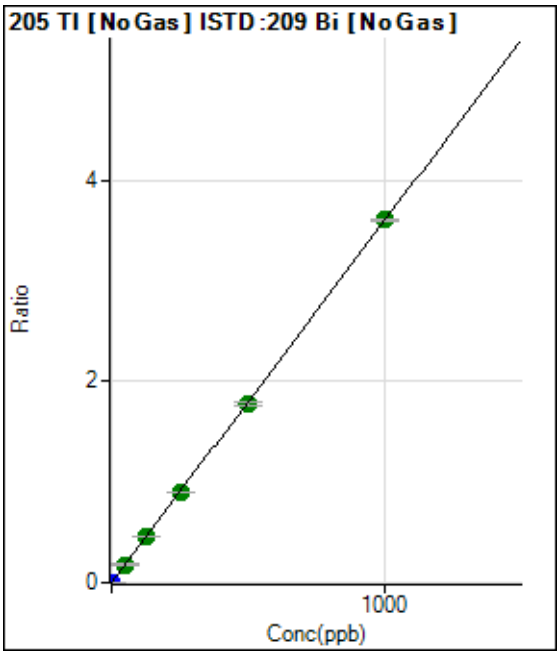


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261.12	0.0000	P	13.8
2	☐	1.000	0.986	18854.88	0.0015	P	0.5
3	☐	50.000	48.910	919775.82	0.0748	P	1.7
4	☐	125.000	127.134	2374109.65	0.1944	A	1.0
5	☐	250.000	254.074	4679165.28	0.3884	A	0.7
6	☐	500.000	495.889	9058046.46	0.7580	A	2.5
7	☐	1000.000	1000.825	17795416.12	1.5299	A	1.1
8	☐			2105.75	0.0002	P	23.1

y = 0.0015 * x + 2.1391E-005
R = 1.0000
DL = 0.005804

Weight: <None>
Min Conc: 0

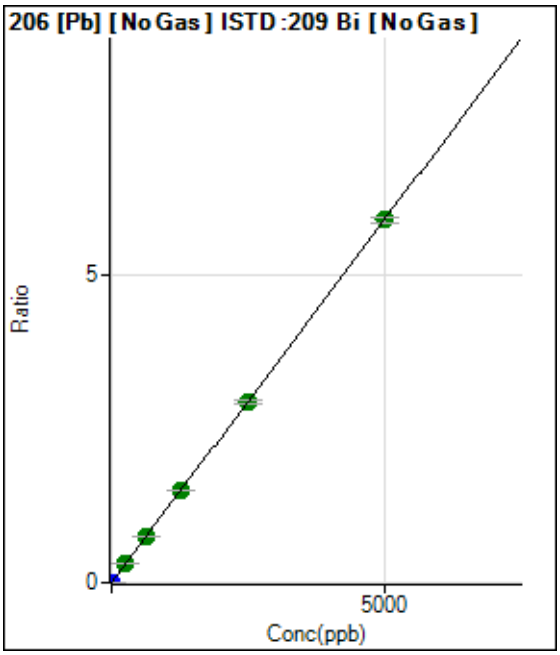
Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600.02	0.0000	P	4.2
2	☐	1.000	0.986	44351.09	0.0036	P	2.1
3	☐	50.000	50.378	2229910.99	0.1813	A	0.9
4	☐	125.000	126.032	5539479.78	0.4535	A	0.5
5	☐	250.000	251.299	10892656.23	0.9042	A	0.7
6	☐	500.000	494.492	21262087.18	1.7791	A	1.3
7	☐	1000.000	1002.282	41944511.60	3.6060	A	0.8
8	☐			4942.14	0.0005	P	23.8

y = 0.0036 * x + 4.9122E-005
R = 1.0000
DL = 0.001719

Weight: <None>
Min Conc: 0

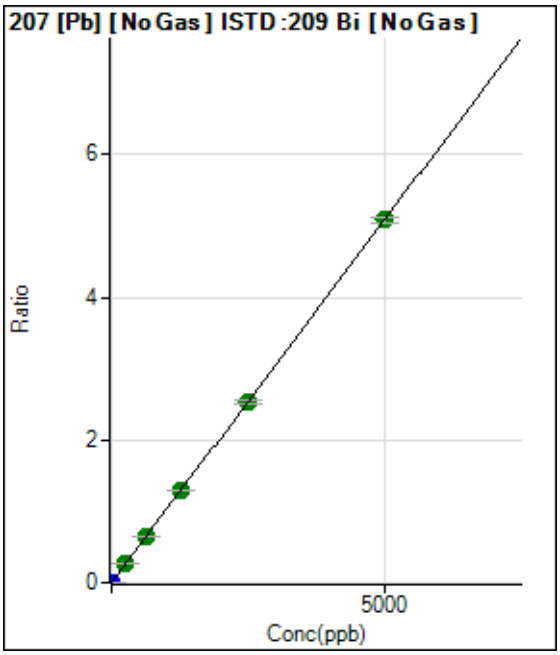


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1441.21	0.0001	P	1.9
2	☐	1.000	1.007	16108.98	0.0013	P	2.5
3	☐	250.000	254.666	3697775.12	0.3007	A	1.2
4	☐	625.000	631.542	9105492.44	0.7454	A	1.1
5	☐	1250.000	1268.069	18029221.68	1.4966	A	0.9
6	☐	2500.000	2492.471	35146714.75	2.9415	A	3.0
7	☐	5000.000	4998.196	68607460.09	5.8985	A	1.3
8	☐			21784.02	0.0023	P	6.0

y = 0.0012 * x + 1.1798E-004
R = 1.0000
DL = 0.005725

Weight: <None>
Min Conc: 0

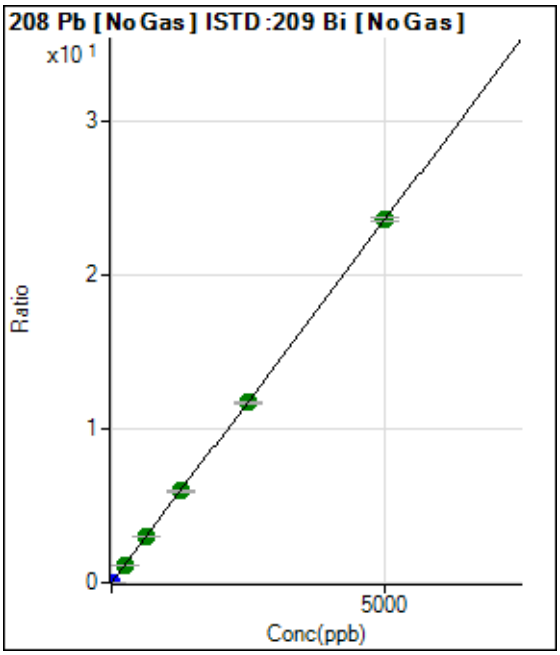
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1273.41	0.0001	P	1.4
2	☐	1.000	1.045	14379.19	0.0012	P	3.4
3	☐	250.000	254.405	3182666.20	0.2588	A	1.0
4	☐	625.000	636.162	7902025.92	0.6469	A	0.6
5	☐	1250.000	1268.836	15542303.52	1.2902	A	1.2
6	☐	2500.000	2486.800	30214094.83	2.5285	A	2.4
7	☐	5000.000	5000.276	59131514.68	5.0840	A	1.9
8	☐			18964.03	0.0020	P	7.5

y = 0.0010 * x + 1.0424E-004
R = 1.0000
DL = 0.004164

Weight: <None>
Min Conc: 0

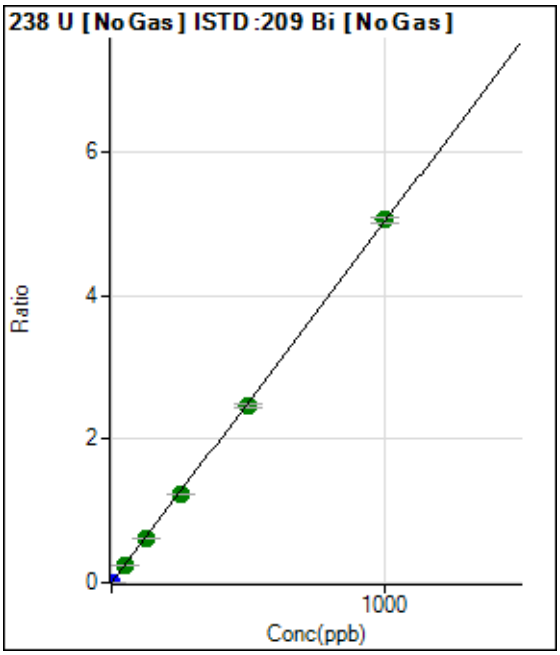


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5703.88	0.0005	P	3.2
2	☐	1.000	1.024	65251.42	0.0053	P	1.7
3	☐	250.000	251.272	14568274.54	1.1844	A	0.5
4	☐	625.000	631.717	36365243.49	2.9770	A	0.2
5	☐	1250.000	1261.595	71617304.07	5.9449	A	1.2
6	☐	2500.000	2480.935	139699024.0	11.6903	A	1.9
7	☐	5000.000	5005.730	274350285.9	23.5867	A	1.1
8	☐			87419.74	0.0093	P	6.4

y = 0.0047 * x + 4.6697E-004
R = 1.0000
DL = 0.009391

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	146.67	0.0000	P	22.3
2	☐	1.000	0.985	61130.41	0.0050	P	1.1
3	☐	50.000	49.117	3033679.15	0.2467	A	1.0
4	☐	125.000	122.340	7504251.49	0.6143	A	2.0
5	☐	250.000	245.507	14851732.00	1.2328	A	1.7
6	☐	500.000	490.644	29443949.84	2.4638	A	1.6
7	☐	1000.000	1006.178	58768231.90	5.0526	A	1.5
8	☐			4347.50	0.0005	P	27.9

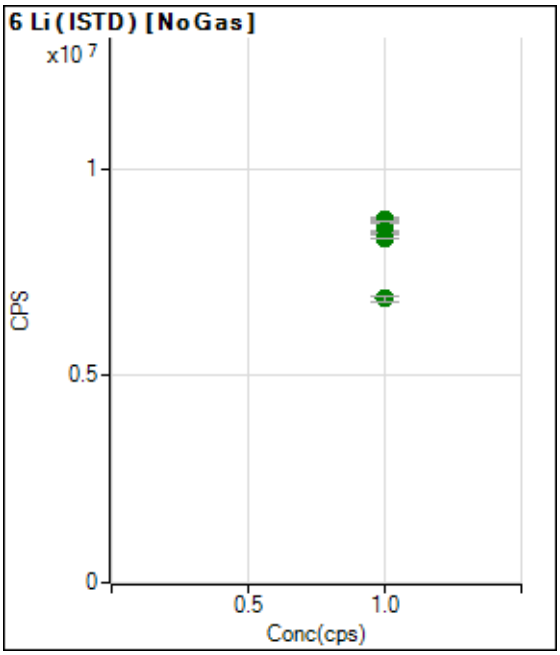
y = 0.0050 * x + 1.2013E-005

R = 0.9999

DL = 0.0016

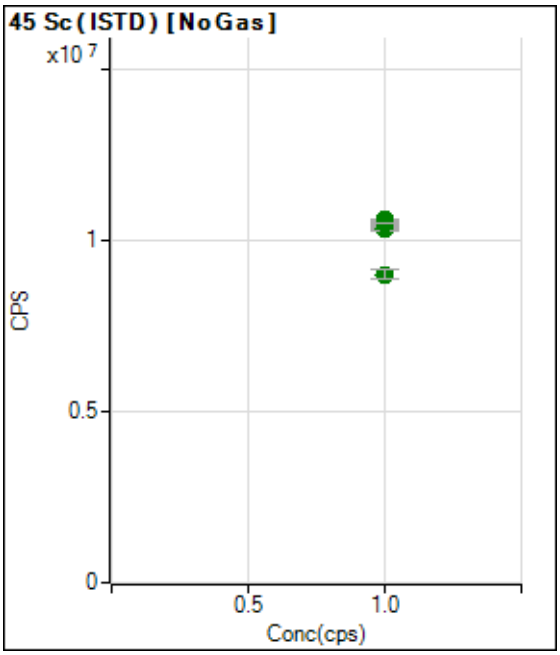
Weight: <None>

Min Conc: 0

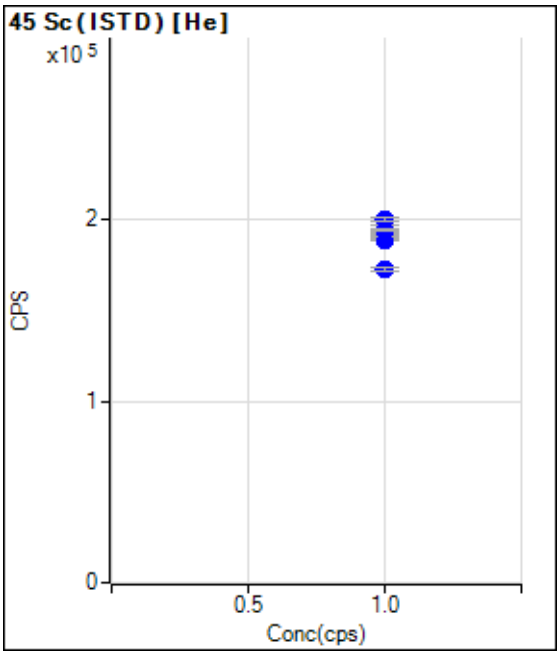


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8749338.53		A	1.3
2	☐	1.000		8755306.64		A	0.1
3	☐	1.000		8703403.55		A	0.3
4	☐	1.000		8496925.50		A	0.2
5	☐	1.000		8434651.72		A	1.0
6	☐	1.000		8456238.61		A	0.3
7	☐	1.000		8319306.46		A	0.2
8	☐	1.000		6850418.55		A	1.8

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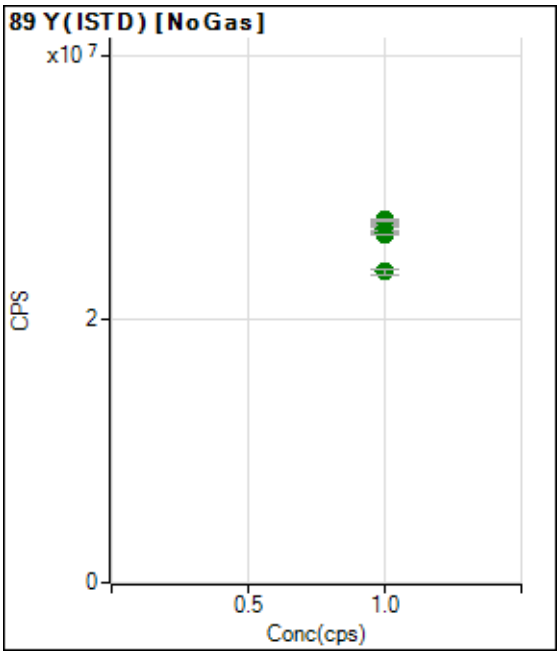


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10307349.01		A	0.3
2	☐	1.000		10314932.42		A	1.1
3	☐	1.000		10396492.90		A	1.6
4	☐	1.000		10336063.94		A	0.8
5	☐	1.000		10499062.97		A	0.7
6	☐	1.000		10597020.54		A	0.9
7	☐	1.000		10505883.94		A	0.5
8	☐	1.000		9007472.71		A	2.9

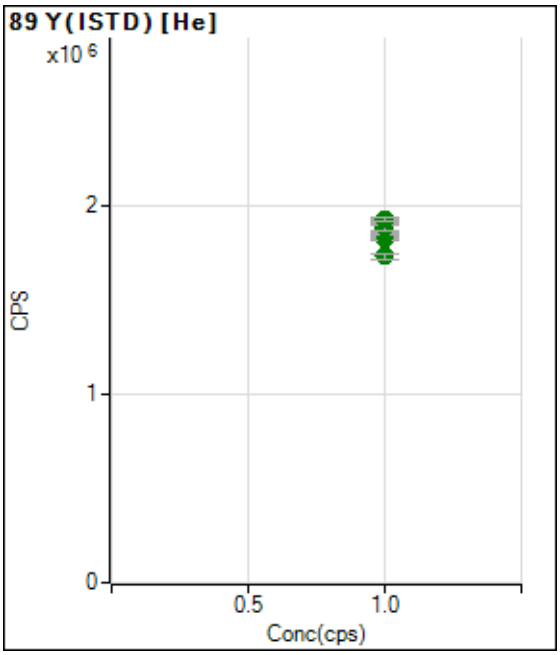


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		188743.15		P	0.6
2	☐	1.000		194495.90		P	2.7
3	☐	1.000		190108.34		P	0.2
4	☐	1.000		190818.94		P	0.5
5	☐	1.000		193616.40		P	0.6
6	☐	1.000		194010.69		P	0.4
7	☐	1.000		199733.19		P	1.1
8	☐	1.000		172818.44		P	1.2

Reviewed By:Mohan
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Inst Id :P8

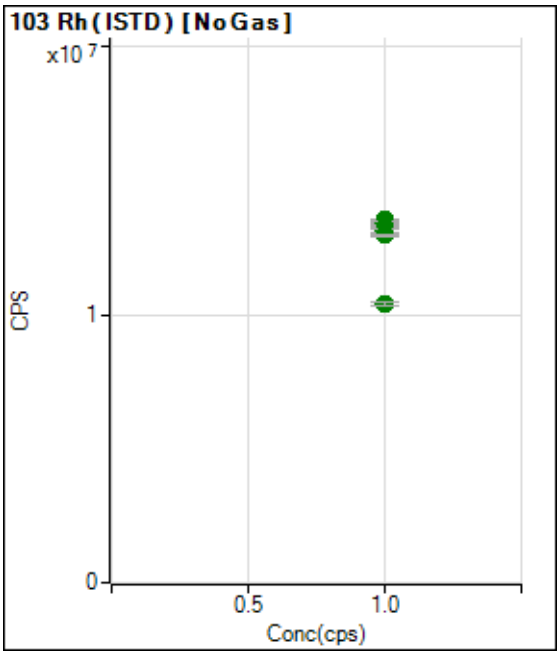


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1	☐	1.000		26514125.71		A	0.5
2	☐	1.000		26576919.33		A	0.8
3	☐	1.000		26835071.55		A	1.0
4	☐	1.000		26648809.33		A	1.1
5	☐	1.000		27261466.54		A	0.7
6	☐	1.000		27146518.48		A	0.2
7	☐	1.000		27567807.37		A	0.3
8	☐	1.000		23617476.32		A	2.0

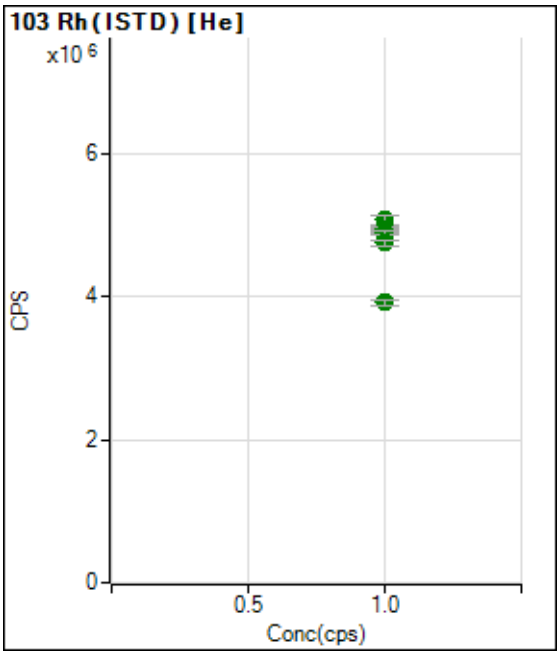


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1	☐	1.000		1822015.84		A	0.6
2	☐	1.000		1876735.95		A	2.7
3	☐	1.000		1844202.07		A	1.0
4	☐	1.000		1851342.85		A	0.6
5	☐	1.000		1879639.80		A	1.3
6	☐	1.000		1921492.99		A	0.7
7	☐	1.000		1920951.20		A	1.1
8	☐	1.000		1727542.66		A	1.8

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

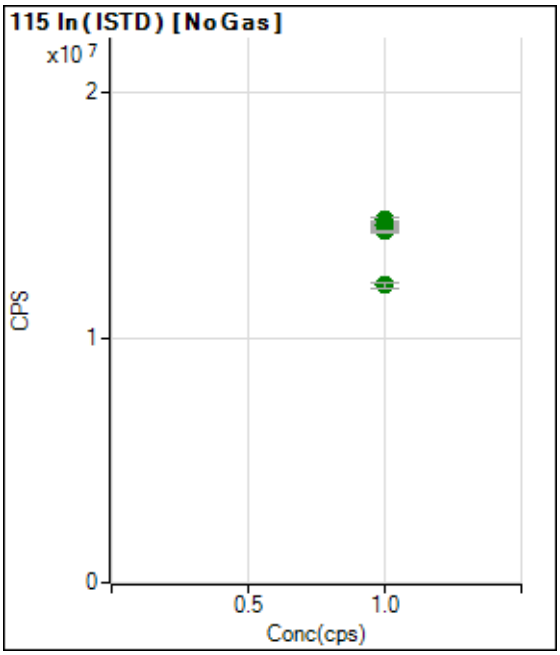


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1	☐	1.000		13468323.69		A	0.8
2	☐	1.000		13547108.83		A	0.7
3	☐	1.000		13388965.22		A	0.3
4	☐	1.000		13434932.58		A	1.2
5	☐	1.000		13268684.52		A	0.2
6	☐	1.000		13132212.72		A	1.3
7	☐	1.000		12970077.58		A	0.7
8	☐	1.000		10386987.69		A	1.5

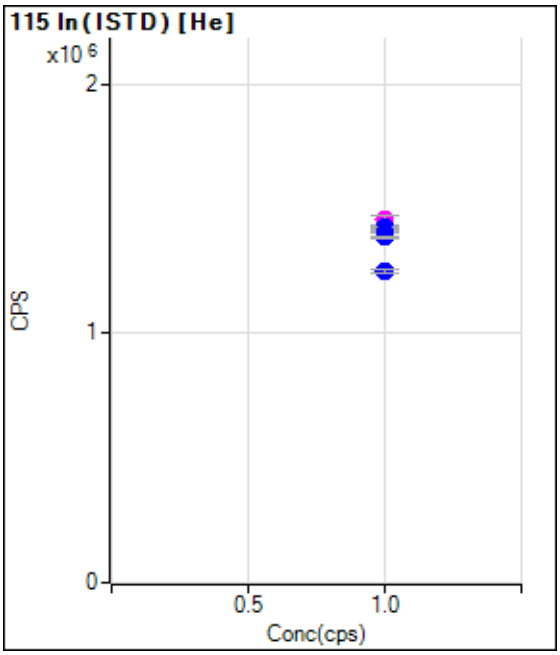


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4963818.78		A	0.6
2	☐	1.000		5079028.08		A	2.5
3	☐	1.000		4954857.39		A	0.7
4	☐	1.000		4920791.11		A	1.2
5	☐	1.000		4950184.16		A	0.7
6	☐	1.000		4898591.73		A	1.0
7	☐	1.000		4755307.88		A	1.8
8	☐	1.000		3918102.10		A	1.7

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

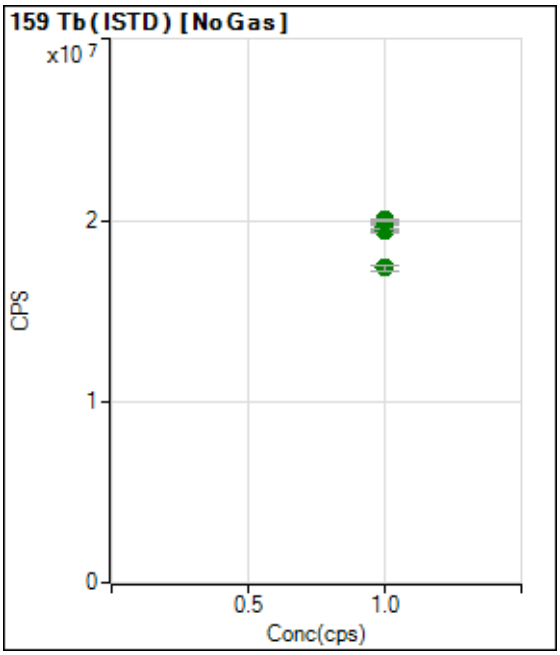


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1	☐	1.000		14579367.27		A	0.3
2	☐	1.000		14647545.57		A	0.4
3	☐	1.000		14802427.61		A	1.0
4	☐	1.000		14657396.48		A	1.0
5	☐	1.000		14573952.12		A	1.3
6	☐	1.000		14494904.68		A	0.8
7	☐	1.000		14330857.18		A	0.7
8	☐	1.000		12121881.65		A	1.4

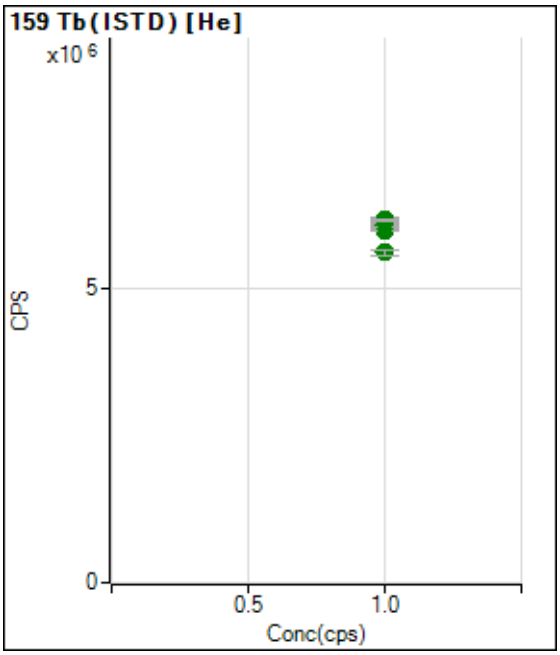


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1409801.56		P	0.5
2	☐	1.000		1454467.02		M	2.5
3	☐	1.000		1428113.34		P	0.2
4	☐	1.000		1422676.91		P	0.8
5	☐	1.000		1424079.18		P	0.7
6	☐	1.000		1404991.76		P	0.1
7	☐	1.000		1383906.16		P	0.3
8	☐	1.000		1247944.41		P	1.3

Reviewed By:Mohan
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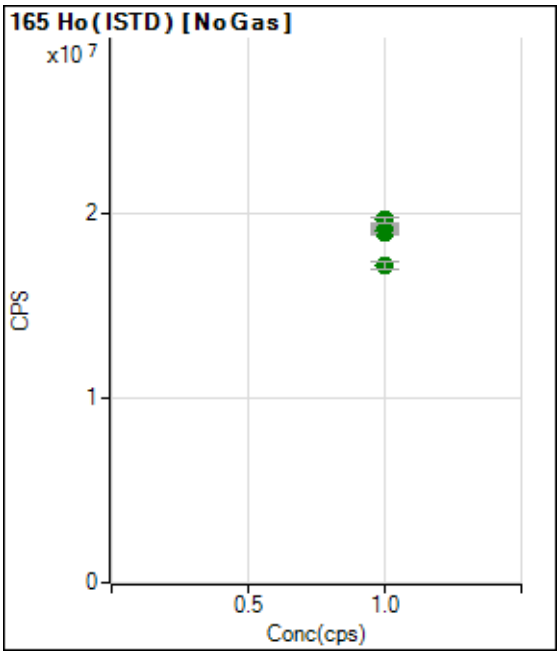


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19414855.40		A	0.4
2	☐	1.000		19447034.57		A	1.2
3	☐	1.000		19678241.37		A	1.1
4	☐	1.000		19628274.15		A	1.0
5	☐	1.000		19900629.98		A	0.4
6	☐	1.000		20013589.15		A	0.5
7	☐	1.000		20022576.92		A	0.5
8	☐	1.000		17352238.63		A	2.0

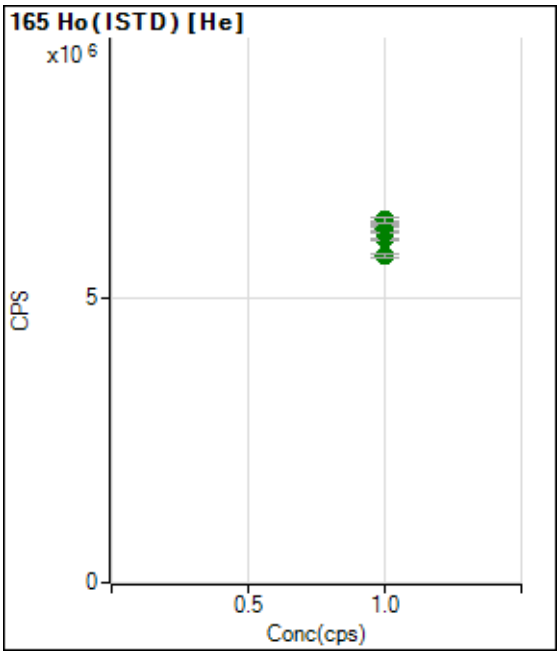


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5996544.63		A	0.8
2	☐	1.000		6148342.27		A	2.4
3	☐	1.000		6071832.20		A	0.8
4	☐	1.000		6080305.54		A	1.1
5	☐	1.000		6165550.74		A	1.6
6	☐	1.000		6162174.70		A	0.8
7	☐	1.000		6157028.52		A	0.5
8	☐	1.000		5615472.07		A	1.7

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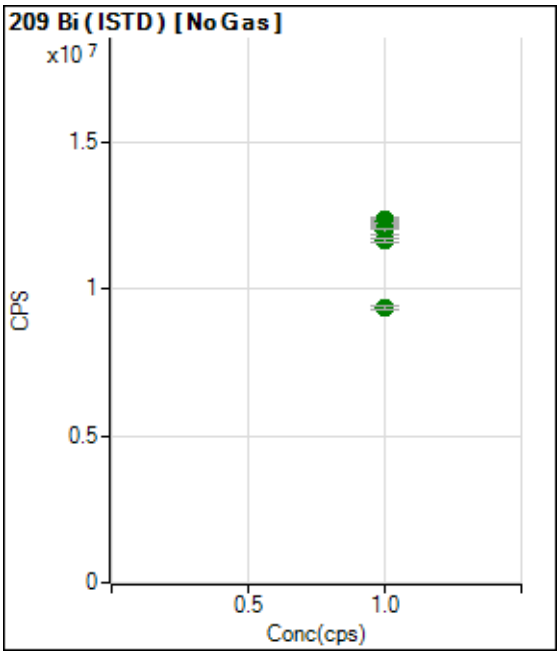


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19009008.47		A	0.7
2	☐	1.000		19120141.38		A	1.1
3	☐	1.000		19310267.21		A	1.1
4	☐	1.000		19351499.02		A	0.6
5	☐	1.000		19524832.21		A	0.4
6	☐	1.000		19481702.21		A	0.8
7	☐	1.000		19697730.54		A	1.4
8	☐	1.000		17223702.24		A	2.1

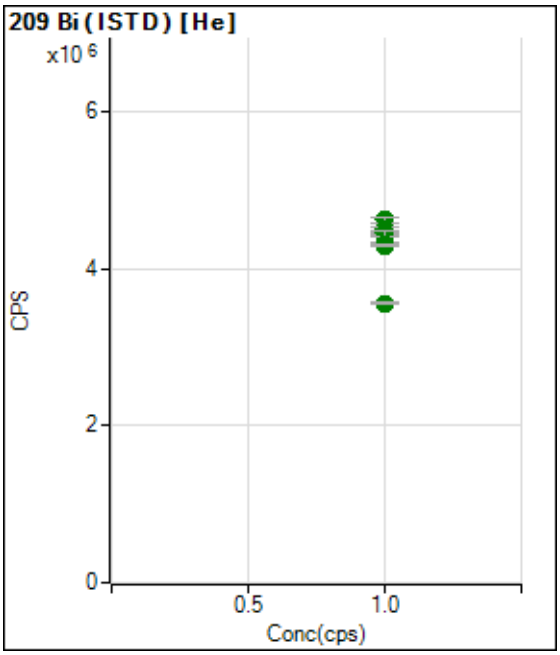


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6055879.91		A	0.6
2	☐	1.000		6222770.95		A	1.7
3	☐	1.000		6168107.34		A	0.5
4	☐	1.000		6221970.46		A	1.9
5	☐	1.000		6309187.20		A	0.3
6	☐	1.000		6323287.20		A	1.0
7	☐	1.000		6388061.02		A	1.5
8	☐	1.000		5752489.98		A	1.5

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12216358.71		A	0.9
2	☐	1.000		12331346.21		A	0.9
3	☐	1.000		12300237.59		A	1.1
4	☐	1.000		12215257.73		A	0.3
5	☐	1.000		12047291.49		A	0.5
6	☐	1.000		11952695.52		A	1.7
7	☐	1.000		11632398.30		A	1.1
8	☐	1.000		9349372.98		A	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4475536.25		A	0.9
2	☐	1.000		4627261.39		A	1.8
3	☐	1.000		4515747.50		A	1.0
4	☐	1.000		4439609.00		A	0.4
5	☐	1.000		4455575.18		A	1.4
6	☐	1.000		4319612.57		A	0.8
7	☐	1.000		4300545.11		A	0.6
8	☐	1.000		3560257.66		A	0.9

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8011725MS-3.b
Acq. Date-Time	2025-01-17 11:46:42
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		40396	403960.77			0.103	5.000
24		722680	7226803.70			0.667	5.000
25		98129	981290.41			0.656	5.000
26		112132	1121316.94			0.730	5.000
59		165175	1651749.20			0.445	5.000
113		20481	204808.26			0.169	5.000
115		265760	2657598.96			0.476	5.000
206		62757	627571.02			0.193	5.000
207		54756	547557.14			0.232	5.000
208		135462	1354620.68			0.850	5.000
220		0	3.30			56.285	

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	40326	40402	40401	40415	40436
24	723307	725334	714202	725442	725117
25	98788	97468	98494	97407	98488
26	112717	111664	113026	112260	110991
59	165533	165575	164200	165954	164613
113	20503	20518	20448	20494	20440
115	267606	266492	265279	264622	264802
206	62688	62737	62636	62770	62954
207	54818	54687	54567	54824	54882
208	133994	135413	135665	137179	135060

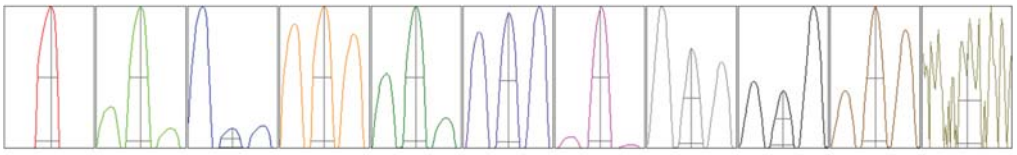
Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	65882.41	9.10	8.90 - 9.10	
24	1228125.47	24.00	23.90 - 24.10	
25	167240.30	25.00	24.90 - 25.10	
26	190673.25	26.00	25.90 - 26.10	
59	290871.55	59.00	58.90 - 59.10	
113	39113.53	113.05	112.90 - 113.10	
115	505276.23	115.05	114.90 - 115.10	
206	120709.99	206.00	205.90 - 206.10	
207	103906.56	207.00	206.90 - 207.10	
208	253256.59	208.05	207.90 - 208.10	
220	0.40	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.788	0.900	
24	0.62	0.826	0.900	
25	0.63	0.780	0.900	
26	0.63	0.783	0.900	
59	0.60	0.778	0.900	
113	0.55	0.766	0.900	
115	0.55	0.769	0.900	
206	0.54	0.810	0.900	
207	0.54	0.785	0.900	
208	0.54	0.821	0.900	
220	0.73	0.793		

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

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	15.4 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9964	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.6 mm		

EM

Discriminator	4.0 mV	Analog HV	2170 V	Pulse HV	1058 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		29102	291020.07			0.533	
89		22466	224664.89			0.840	
205		34235	342348.89			0.615	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	29346	29096	29039	28921	29108
89	22685	22343	22386	22269	22650
205	34598	34144	34202	34053	34178

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	2.6 V

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Extract 2	-150.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9964	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.6 mm

EM

Discriminator	4.0 mV	Analog HV	2170 V	Pulse HV	1058 V

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.25	-0.19	0.45	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.02	-0.01	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	-0.01	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.01	-0.02	0.00	0.00	N/A	ppb
Cadmium	106-1	0.72	-0.08	-0.64	0.00	N/A	ppb
Cadmium	111-1	0.02	0.00	-0.02	0.00	N/A	ppb
Calcium	43-1	1.33	-0.51	-0.82	0.00	N/A	ppb
Calcium	44-1	-0.30	-0.08	0.38	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	-0.02	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.03	-0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	0.34	-0.17	-0.17	0.00	N/A	ppb
Iron	56-2	-0.11	0.06	0.05	0.00	N/A	ppb
Iron	57-2	0.04	-0.16	0.11	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:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.02	-0.24	0.25	0.00	N/A	ppb
Manganese	55-2	0.00	0.01	-0.01	0.00	N/A	ppb
Molybdenum	94-1	0.01	0.00	-0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	0.00	0.05	0.00	N/A	ppb
Phosphorus	31-2	-17.34	-19.28	-20.36	-18.99		ppb
Potassium	39-2	0.93	0.46	-1.39	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.12	-0.20	0.07	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.39	-0.31	-0.08	0.00	N/A	ppb
Silicon	28-1	0.09	-0.09	-0.01	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	0.10	0.06	-0.15	0.00	N/A	ppb
Strontium	86-1	-0.01	0.00	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-15.02	5.14	-37.23	-15.71		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	-0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.07	-0.05	-0.03	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00	N/A	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.47	20.33	17.47	19.09	7.68	ppb
Antimony	121-1	2.10	2.13	2.13	2.12	0.84	ppb
Arsenic	75-2	1.05	1.01	0.96	1.01	4.53	ppb
Barium	135-1	10.94	10.31	10.83	10.69	3.12	ppb
Barium	137-1	10.81	10.62	10.73	10.72	0.87	ppb
Beryllium	9-1	1.07	1.07	1.08	1.08	0.50	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.94	1.27	1.24	1.15	15.98	ppb
Cadmium	106-1	1.50	1.05	0.47	1.01	51.09	ppb
Cadmium	111-1	1.20	1.12	1.10	1.14	4.58	ppb
Calcium	43-1	547.46	541.73	551.31	546.83	0.88	ppb
Calcium	44-1	544.98	534.03	542.32	540.44	1.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.09	2.09	1.99	2.06	2.54	ppb
Cobalt	59-2	1.10	1.17	1.10	1.12	3.35	ppb
Copper	63-2	2.26	2.40	2.18	2.28	4.87	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				103		%
Indium	115-1				100		%
Indium	115-2				103		%
Iron	54-2	59.53	61.69	58.21	59.81	2.93	ppb
Iron	56-2	56.77	59.78	55.49	57.35	3.84	ppb
Iron	57-2	57.14	57.85	53.58	56.19	4.07	ppb
Krypton	83-1						cps
Lead	206-1	0.99	1.04	0.99	1.01	2.76	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.00	1.08	1.05	1.04	3.71	ppb
Lead	208-1	1.01	1.05	1.01	1.02	1.82	ppb
Lithium	6-1				100		%
Magnesium	24-2	607.59	627.55	589.47	608.20	3.13	ppb
Manganese	55-2	1.09	1.16	1.02	1.09	6.64	ppb
Molybdenum	94-1	6.23	6.10	6.37	6.23	2.20	ppb
Molybdenum	95-1	5.27	5.20	5.34	5.27	1.28	ppb
Molybdenum	96-1	5.29	5.26	5.33	5.29	0.65	ppb
Molybdenum	97-1	5.29	5.22	5.33	5.28	1.02	ppb
Molybdenum	98-1	5.18	5.20	5.31	5.23	1.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.14	1.14	0.96	1.08	9.51	ppb
Phosphorus	31-2	18.25	22.88	15.85	18.99	18.81	ppb
Potassium	39-2	513.34	523.21	494.57	510.37	2.85	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				103		%
Selenium	82-1	5.42	5.28	5.27	5.32	1.55	ppb
Selenium	77-2	7.50	5.42	6.60	6.51	16.10	ppb
Selenium	78-2	6.47	6.21	5.87	6.18	4.84	ppb
Silicon	28-1	2.59	2.38	2.83	2.60	8.71	ppb
Silver	107-1	1.06	1.07	1.07	1.06	0.76	ppb
Silver	109-1	1.09	1.05	1.09	1.08	2.21	ppb
Sodium	23-2	557.66	574.91	535.17	555.92	3.58	ppb
Strontium	86-1	1.00	1.04	0.98	1.01	2.78	ppb
Strontium	88-1	1.01	1.02	1.02	1.02	0.90	ppb
Sulfur	34-1	15.28	-66.79	98.63	15.71	526.63	ppb
Terbium	159-1				100		%
Terbium	159-2				103		%
Thallium	203-1	0.98	0.99	0.99	0.99	0.50	ppb
Thallium	205-1	0.97	1.01	0.98	0.99	2.13	ppb
Tin	118-1	5.46	5.23	5.31	5.34	2.18	ppb
Titanium	47-1	5.38	5.23	5.46	5.36	2.19	ppb
Uranium	238-1	0.98	1.00	0.98	0.98	1.15	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.14	5.39	5.03	5.19	3.55	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				103		%
Zinc	66-2	5.47	5.81	5.10	5.46	6.51	ppb
Zirconium	90-1	1.06	1.05	1.07	1.06	0.69	ppb
Zirconium	91-1	1.00	1.04	0.98	1.00	3.18	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1022.82	1015.50	1020.41	1019.58	0.37	ppb
Antimony	121-1	50.61	51.62	50.68	50.97	1.11	ppb
Arsenic	75-2	51.31	50.71	53.19	51.73	2.50	ppb
Barium	135-1	251.76	255.42	250.07	252.42	1.08	ppb
Barium	137-1	256.74	264.83	256.09	259.22	1.88	ppb
Beryllium	9-1	52.37	52.79	52.33	52.50	0.49	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	55.02	53.83	53.60	54.15	1.41	ppb
Cadmium	106-1	54.74	54.63	52.06	53.81	2.82	ppb
Cadmium	111-1	51.97	53.29	52.80	52.69	1.26	ppb
Calcium	43-1	5048.64	5212.63	5099.67	5120.31	1.64	ppb
Calcium	44-1	5085.90	5218.27	5022.95	5109.04	1.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.20	52.24	51.98	52.14	0.27	ppb
Cobalt	59-2	54.43	54.35	54.32	54.37	0.10	ppb
Copper	63-2	569.04	563.04	567.15	566.41	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				102		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	2788.95	2796.46	2786.07	2790.49	0.19	ppb
Iron	56-2	2732.61	2757.63	2777.45	2755.90	0.82	ppb
Iron	57-2	2734.41	2733.09	2730.43	2732.64	0.07	ppb
Krypton	83-1						cps
Lead	206-1	252.65	253.09	258.26	254.67	1.22	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	253.28	252.73	257.20	254.41	0.96	ppb
Lead	208-1	249.79	252.07	251.96	251.27	0.51	ppb
Lithium	6-1				99		%
Magnesium	24-2	5913.14	6064.41	5903.26	5960.27	1.52	ppb
Manganese	55-2	524.34	525.45	527.47	525.75	0.30	ppb
Molybdenum	94-1	501.38	519.76	513.97	511.70	1.84	ppb
Molybdenum	95-1	503.90	520.29	510.72	511.63	1.61	ppb
Molybdenum	96-1	505.42	510.22	517.38	511.00	1.18	ppb
Molybdenum	97-1	504.55	506.98	518.86	510.13	1.50	ppb
Molybdenum	98-1	498.18	506.14	510.83	505.05	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	54.62	53.96	53.88	54.15	0.76	ppb
Phosphorus	31-2	1025.39	1075.71	1022.45	1041.18	2.88	ppb
Potassium	39-2	2519.19	2547.59	2530.68	2532.49	0.56	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	53.64	52.55	54.35	53.52	1.70	ppb
Selenium	77-2	56.92	48.45	49.31	51.56	9.05	ppb
Selenium	78-2	55.74	52.80	50.95	53.16	4.54	ppb
Silicon	28-1	64.19	68.49	65.26	65.98	3.39	ppb
Silver	107-1	52.78	53.64	52.94	53.12	0.86	ppb
Silver	109-1	53.68	54.20	53.10	53.66	1.02	ppb
Sodium	23-2	5395.98	5508.50	5492.89	5465.79	1.12	ppb
Strontium	86-1	50.00	51.11	51.40	50.84	1.45	ppb
Strontium	88-1	51.06	52.25	52.12	51.81	1.26	ppb
Sulfur	34-1	1251.11	1347.56	1083.96	1227.54	10.86	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	48.09	48.89	49.75	48.91	1.70	ppb
Thallium	205-1	49.87	50.63	50.64	50.38	0.87	ppb
Tin	118-1	51.45	52.38	51.71	51.85	0.92	ppb
Titanium	47-1	514.18	533.26	510.97	519.47	2.32	ppb
Uranium	238-1	48.72	48.97	49.67	49.12	1.00	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	51.46	51.48	51.59	51.51	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				101		%
Zinc	66-2	548.93	548.08	546.85	547.95	0.19	ppb
Zirconium	90-1	50.66	52.30	51.51	51.49	1.60	ppb
Zirconium	91-1	48.67	49.39	50.66	49.57	2.02	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2548.34	2559.40	2554.21	2553.98	0.22	ppb
Antimony	121-1	130.18	133.52	134.61	132.77	1.74	ppb
Arsenic	75-2	132.62	133.77	135.03	133.81	0.90	ppb
Barium	135-1	651.60	660.30	662.92	658.27	0.90	ppb
Barium	137-1	641.38	646.40	666.18	651.32	2.01	ppb
Beryllium	9-1	132.63	132.53	132.32	132.49	0.12	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	134.85	136.89	138.09	136.61	1.20	ppb
Cadmium	106-1	132.25	134.37	136.37	134.33	1.53	ppb
Cadmium	111-1	132.59	133.18	136.38	134.05	1.52	ppb
Calcium	43-1	12695.29	13011.88	13061.01	12922.73	1.54	ppb
Calcium	44-1	12869.79	12945.06	12860.39	12891.75	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	130.08	130.75	130.91	130.58	0.34	ppb
Cobalt	59-2	134.77	136.87	137.12	136.25	0.95	ppb
Copper	63-2	1389.38	1403.82	1407.83	1400.34	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	6928.33	7064.79	7059.46	7017.53	1.10	ppb
Iron	56-2	6784.91	7024.32	6900.34	6903.19	1.73	ppb
Iron	57-2	6729.87	6857.37	6822.68	6803.31	0.97	ppb
Krypton	83-1						cps
Lead	206-1	628.24	639.21	627.18	631.54	1.05	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	640.42	634.20	633.86	636.16	0.58	ppb
Lead	208-1	631.32	632.94	630.88	631.72	0.17	ppb
Lithium	6-1				97		%
Magnesium	24-2	14741.42	15150.43	14919.40	14937.08	1.37	ppb
Manganese	55-2	1358.82	1366.85	1367.81	1364.50	0.36	ppb
Molybdenum	94-1	1305.72	1282.93	1282.22	1290.29	1.04	ppb
Molybdenum	95-1	1306.25	1290.54	1283.79	1293.52	0.89	ppb
Molybdenum	96-1	1302.49	1291.68	1286.03	1293.40	0.65	ppb
Molybdenum	97-1	1319.23	1291.34	1282.91	1297.83	1.46	ppb
Molybdenum	98-1	1307.93	1275.53	1297.17	1293.54	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	133.32	134.67	135.72	134.57	0.89	ppb
Phosphorus	31-2	2669.68	2667.42	2719.69	2685.60	1.10	ppb
Potassium	39-2	6322.99	6436.13	6395.97	6385.03	0.90	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	136.63	132.87	134.09	134.53	1.43	ppb
Selenium	77-2	137.10	144.31	129.70	137.04	5.33	ppb
Selenium	78-2	131.56	140.68	136.72	136.32	3.35	ppb
Silicon	28-1	146.89	151.33	149.96	149.39	1.52	ppb
Silver	107-1	132.76	136.23	138.53	135.84	2.14	ppb
Silver	109-1	137.47	137.64	138.55	137.89	0.42	ppb
Sodium	23-2	13453.93	13564.57	13760.46	13592.99	1.14	ppb
Strontium	86-1	128.99	128.44	129.81	129.08	0.54	ppb
Strontium	88-1	130.67	128.47	130.14	129.76	0.89	ppb
Sulfur	34-1	3097.43	3211.67	3177.77	3162.29	1.86	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	128.42	126.02	126.96	127.13	0.95	ppb
Thallium	205-1	125.38	126.50	126.21	126.03	0.46	ppb
Tin	118-1	128.42	131.90	133.96	131.43	2.13	ppb
Titanium	47-1	1278.43	1302.19	1309.92	1296.85	1.27	ppb
Uranium	238-1	122.00	120.14	124.88	122.34	1.95	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	128.65	130.19	130.06	129.63	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	1355.02	1381.63	1381.99	1372.88	1.13	ppb
Zirconium	90-1	130.64	129.85	127.04	129.17	1.46	ppb
Zirconium	91-1	125.88	125.05	124.48	125.14	0.56	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4988.87	4966.49	4960.50	4971.95	0.30	ppb
Antimony	121-1	257.90	256.19	260.44	258.18	0.83	ppb
Arsenic	75-2	267.05	258.43	260.58	262.02	1.71	ppb
Barium	135-1	1256.03	1260.60	1282.75	1266.46	1.13	ppb
Barium	137-1	1256.79	1253.74	1284.03	1264.85	1.32	ppb
Beryllium	9-1	259.36	266.11	262.81	262.76	1.28	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	263.75	259.16	266.31	263.08	1.38	ppb
Cadmium	106-1	258.97	257.86	265.05	260.63	1.49	ppb
Cadmium	111-1	256.29	258.48	262.41	259.06	1.20	ppb
Calcium	43-1	25447.92	26177.19	25734.67	25786.60	1.42	ppb
Calcium	44-1	25374.88	25552.03	25448.41	25458.44	0.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	256.30	253.07	257.80	255.72	0.95	ppb
Cobalt	59-2	268.50	262.52	268.68	266.57	1.32	ppb
Copper	63-2	2751.53	2687.51	2718.98	2719.34	1.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	54-2	13828.91	13559.85	13924.12	13770.96	1.37	ppb
Iron	56-2	13666.08	13521.50	13617.60	13601.73	0.54	ppb
Iron	57-2	13406.00	13294.64	13463.14	13387.93	0.64	ppb
Krypton	83-1						cps
Lead	206-1	1257.93	1266.81	1279.47	1268.07	0.85	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1251.67	1277.31	1277.53	1268.84	1.17	ppb
Lead	208-1	1244.64	1269.15	1270.99	1261.60	1.17	ppb
Lithium	6-1				96		%
Magnesium	24-2	28657.59	28283.03	28625.87	28522.16	0.73	ppb
Manganese	55-2	2689.74	2598.30	2667.71	2651.92	1.80	ppb
Molybdenum	94-1	2564.42	2541.30	2500.44	2535.39	1.28	ppb
Molybdenum	95-1	2551.93	2530.91	2497.40	2526.75	1.09	ppb
Molybdenum	96-1	2504.67	2539.33	2465.92	2503.31	1.47	ppb
Molybdenum	97-1	2503.34	2550.75	2471.94	2508.68	1.58	ppb
Molybdenum	98-1	2514.08	2515.81	2491.90	2507.26	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	261.88	256.99	262.43	260.44	1.15	ppb
Phosphorus	31-2	5193.23	5298.14	5208.61	5233.33	1.08	ppb
Potassium	39-2	12601.38	12411.39	12847.11	12619.96	1.73	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	260.53	263.09	262.90	262.17	0.55	ppb
Selenium	77-2	259.99	255.13	268.95	261.35	2.68	ppb
Selenium	78-2	266.47	258.77	252.71	259.32	2.66	ppb
Silicon	28-1	323.71	328.16	325.82	325.90	0.68	ppb
Silver	107-1	263.17	263.06	267.34	264.52	0.92	ppb
Silver	109-1	264.88	261.76	263.58	263.41	0.60	ppb
Sodium	23-2	26758.40	26684.30	26711.25	26717.99	0.14	ppb
Strontium	86-1	258.28	258.39	260.83	259.17	0.56	ppb
Strontium	88-1	250.05	253.24	254.68	252.66	0.94	ppb
Sulfur	34-1	6057.91	6031.53	5932.25	6007.23	1.10	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	253.96	252.27	256.00	254.07	0.74	ppb
Thallium	205-1	250.44	250.19	253.26	251.30	0.68	ppb
Tin	118-1	259.16	257.25	257.73	258.05	0.38	ppb
Titanium	47-1	2510.81	2545.45	2519.51	2525.26	0.71	ppb
Uranium	238-1	241.91	249.96	244.65	245.51	1.67	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	256.38	253.63	256.14	255.38	0.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	2680.74	2653.69	2678.73	2671.05	0.56	ppb
Zirconium	90-1	254.01	252.96	252.28	253.08	0.34	ppb
Zirconium	91-1	251.75	256.27	252.61	253.54	0.95	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9721.22	9757.01	9714.69	9730.97	0.23	ppb
Antimony	121-1	501.90	504.48	504.87	503.75	0.32	ppb
Arsenic	75-2	502.81	498.35	501.98	501.05	0.47	ppb
Barium	135-1	2485.82	2520.57	2519.54	2508.64	0.79	ppb
Barium	137-1	2474.27	2517.25	2503.39	2498.30	0.88	ppb
Beryllium	9-1	509.30	501.84	504.55	505.23	0.75	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	499.82	503.34	509.98	504.38	1.02	ppb
Cadmium	106-1	505.44	510.37	505.73	507.18	0.55	ppb
Cadmium	111-1	511.85	513.15	521.09	515.37	0.97	ppb
Calcium	43-1	50174.68	50284.43	49680.58	50046.56	0.64	ppb
Calcium	44-1	49327.35	50596.32	49579.88	49834.52	1.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	523.89	511.21	509.36	514.82	1.54	ppb
Cobalt	59-2	519.64	523.08	532.39	525.04	1.26	ppb
Copper	63-2	5232.44	5220.43	5256.32	5236.40	0.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				104		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	27206.84	26872.99	27082.69	27054.17	0.62	ppb
Iron	56-2	26477.36	26234.50	26470.59	26394.15	0.52	ppb
Iron	57-2	26983.12	26441.47	26574.97	26666.52	1.06	ppb
Krypton	83-1						cps
Lead	206-1	2417.26	2564.88	2495.27	2492.47	2.96	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2422.14	2535.91	2502.35	2486.80	2.35	ppb
Lead	208-1	2432.35	2527.63	2482.83	2480.94	1.92	ppb
Lithium	6-1				97		%
Magnesium	24-2	56617.10	55294.42	56552.07	56154.53	1.33	ppb
Manganese	55-2	5091.59	5077.17	5066.39	5078.38	0.25	ppb
Molybdenum	94-1	5045.61	5029.21	5063.74	5046.19	0.34	ppb
Molybdenum	95-1	5032.70	5056.71	5087.00	5058.80	0.54	ppb
Molybdenum	96-1	5043.99	5002.49	5016.38	5020.95	0.42	ppb
Molybdenum	97-1	5103.37	5038.06	5005.18	5048.87	0.99	ppb
Molybdenum	98-1	5036.80	5027.52	5016.31	5026.88	0.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	500.18	498.76	508.02	502.32	0.99	ppb
Phosphorus	31-2	10358.52	10296.12	10259.97	10304.87	0.48	ppb
Potassium	39-2	25057.59	25399.94	25238.66	25232.06	0.68	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				103		%
Selenium	82-1	505.35	510.59	512.41	509.45	0.72	ppb
Selenium	77-2	538.72	510.64	516.51	521.96	2.84	ppb
Selenium	78-2	494.15	513.53	496.14	501.27	2.13	ppb
Silicon	28-1	500.85	504.04	494.64	499.84	0.96	ppb
Silver	107-1	507.37	513.54	515.44	512.12	0.82	ppb
Silver	109-1	506.51	508.24	514.94	509.90	0.87	ppb
Sodium	23-2	52864.76	52114.20	52215.83	52398.26	0.78	ppb
Strontium	86-1	508.81	514.40	506.19	509.80	0.82	ppb
Strontium	88-1	508.58	507.66	506.40	507.55	0.22	ppb
Sulfur	34-1	9603.70	9807.24	9551.80	9654.25	1.40	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	482.50	506.47	498.70	495.89	2.47	ppb
Thallium	205-1	488.11	501.21	494.16	494.49	1.33	ppb
Tin	118-1	503.75	507.13	500.84	503.91	0.63	ppb
Titanium	47-1	4998.00	5002.16	4977.46	4992.54	0.26	ppb
Uranium	238-1	481.30	495.41	495.22	490.64	1.65	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	523.46	507.89	498.78	510.04	2.45	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	5231.15	5320.36	5289.85	5280.45	0.86	ppb
Zirconium	90-1	502.40	502.22	505.69	503.43	0.39	ppb
Zirconium	91-1	499.53	505.60	508.63	504.59	0.92	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19515.03	19219.27	18559.49	19097.93	2.56	ppb
Antimony	121-1	985.43	1006.38	993.37	995.06	1.06	ppb
Arsenic	75-2	991.73	1000.24	993.88	995.28	0.44	ppb
Barium	135-1	5015.08	5032.12	4914.65	4987.28	1.27	ppb
Barium	137-1	4971.60	4995.37	5013.18	4993.38	0.42	ppb
Beryllium	9-1	991.08	992.79	995.54	993.13	0.23	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	985.81	997.73	995.10	992.88	0.63	ppb
Cadmium	106-1	989.16	999.16	988.87	992.40	0.59	ppb
Cadmium	111-1	975.16	1002.04	989.16	988.79	1.36	ppb
Calcium	43-1	99119.43	99239.24	100654.01	99670.89	0.86	ppb
Calcium	44-1	99542.28	99470.39	99626.29	99546.32	0.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	997.25	998.80	975.02	990.36	1.34	ppb
Cobalt	59-2	1005.49	973.64	966.01	981.71	2.13	ppb
Copper	63-2	10011.42	9775.20	9627.94	9804.85	1.97	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				105		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	51824.12	51713.81	51122.52	51553.48	0.73	ppb
Iron	56-2	51424.21	50305.79	49591.57	50440.52	1.83	ppb
Iron	57-2	51639.39	50852.67	50724.32	51072.13	0.97	ppb
Krypton	83-1						cps
Lead	206-1	5049.99	4923.60	5020.99	4998.20	1.32	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5060.51	4890.16	5050.15	5000.28	1.91	ppb
Lead	208-1	5040.42	4943.38	5033.39	5005.73	1.08	ppb
Lithium	6-1				95		%
Magnesium	24-2	109024.60	108488.61	107235.22	108249.48	0.85	ppb
Manganese	55-2	10004.53	9987.10	9730.06	9907.23	1.55	ppb
Molybdenum	94-1	9941.88	9954.23	9991.20	9962.44	0.26	ppb
Molybdenum	95-1	9936.87	9938.25	9998.55	9957.89	0.35	ppb
Molybdenum	96-1	9849.30	10000.11	10098.75	9982.72	1.26	ppb
Molybdenum	97-1	9893.06	10057.01	9950.66	9966.91	0.83	ppb
Molybdenum	98-1	9953.58	10010.09	9973.47	9979.05	0.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1012.23	992.13	980.13	994.83	1.63	ppb
Phosphorus	31-2	20036.19	19701.81	19553.92	19763.97	1.25	ppb
Potassium	39-2	49120.99	47911.87	47605.25	48212.70	1.66	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				102		%
Scandium	45-2				106		%
Selenium	82-1	978.72	997.27	996.59	990.86	1.06	ppb
Selenium	77-2	976.93	1009.37	967.49	984.59	2.23	ppb
Selenium	78-2	1011.20	988.49	986.68	995.46	1.37	ppb
Silicon	28-1	976.33	974.97	980.70	977.33	0.31	ppb
Silver	107-1	995.01	988.95	982.45	988.80	0.64	ppb
Silver	109-1	977.74	1007.36	984.63	989.91	1.57	ppb
Sodium	23-2	103013.19	100989.09	100103.24	101368.51	1.47	ppb
Strontium	86-1	983.06	998.56	995.15	992.26	0.82	ppb
Strontium	88-1	988.36	1007.47	988.79	994.88	1.10	ppb
Sulfur	34-1	19696.72	19689.00	20095.00	19826.90	1.17	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	1001.48	989.07	1011.92	1000.82	1.14	ppb
Thallium	205-1	1009.03	993.29	1004.53	1002.28	0.81	ppb
Tin	118-1	989.52	1002.70	993.20	995.14	0.68	ppb
Titanium	47-1	9864.70	10029.69	10077.37	9990.59	1.12	ppb
Uranium	238-1	1013.07	988.71	1016.76	1006.18	1.51	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	995.29	996.02	987.63	992.98	0.47	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	9848.70	9831.32	9717.74	9799.25	0.73	ppb
Zirconium	90-1	989.62	995.22	1005.91	996.92	0.83	ppb
Zirconium	91-1	988.63	999.84	1002.01	996.83	0.72	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100187.94	101628.49	98805.09	100207.17	1.41	ppb
Antimony	121-1	0.70	0.69	0.66	0.68	3.08	ppb
Arsenic	75-2	0.43	0.65	0.55	0.54	20.13	ppb
Barium	135-1	2.17	2.13	2.00	2.10	4.06	ppb
Barium	137-1	2.31	2.12	2.08	2.17	5.55	ppb
Beryllium	9-1	0.31	0.25	0.23	0.26	16.21	ppb
Bismuth	209-1				77		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	0.59	0.54	0.37	0.50	22.49	ppb
Cadmium	106-1	-1.26	-1.05	-0.49	-0.93		ppb
Cadmium	111-1	0.25	0.18	0.18	0.20	19.17	ppb
Calcium	43-1	493671.92	496274.01	510084.12	500010.02	1.76	ppb
Calcium	44-1	493883.74	496497.79	509838.79	500073.44	1.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.14	2.40	2.17	2.24	6.35	ppb
Cobalt	59-2	2.14	2.15	2.07	2.12	2.01	ppb
Copper	63-2	2.05	2.04	1.83	1.98	6.44	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				95		%
Indium	115-1				83		%
Indium	115-2				89		%
Iron	54-2	249199.93	251303.81	247690.99	249398.24	0.73	ppb
Iron	56-2	248517.74	253731.69	246846.07	249698.50	1.44	ppb
Iron	57-2	248292.64	252935.22	247447.24	249558.37	1.18	ppb
Krypton	83-1						cps
Lead	206-1	2.01	1.83	1.79	1.87	6.27	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.06	1.82	1.79	1.89	7.91	ppb
Lead	208-1	2.03	1.83	1.79	1.88	6.72	ppb
Lithium	6-1				78		%
Magnesium	24-2	494753.34	506540.48	491169.90	497487.91	1.62	ppb
Manganese	55-2	3.47	3.67	3.90	3.68	5.83	ppb
Molybdenum	94-1	3.23	2.60	2.36	2.73	16.44	ppb
Molybdenum	95-1	2.21	1.83	1.73	1.92	13.28	ppb
Molybdenum	96-1	2.59	2.21	2.04	2.28	12.37	ppb
Molybdenum	97-1	1.78	1.44	1.35	1.52	14.87	ppb
Molybdenum	98-1	1.71	1.34	1.22	1.42	17.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.80	3.92	4.03	3.91	2.98	ppb
Phosphorus	31-2	6.18	-6.05	5.93	2.02	345.69	ppb
Potassium	39-2	249042.20	253789.44	248141.96	250324.53	1.21	ppb
Rhodium	103-1				77		%
Rhodium	103-2				79		%
Scandium	45-1				87		%
Scandium	45-2				92		%
Selenium	82-1	0.11	-0.12	-0.20	-0.07		ppb
Selenium	77-2	0.00	1.67	1.63	1.10	86.62	ppb
Selenium	78-2	0.90	0.69	-0.07	0.51	100.05	ppb
Silicon	28-1	6.50	6.19	6.41	6.37	2.53	ppb
Silver	107-1	0.19	0.16	0.13	0.16	19.88	ppb
Silver	109-1	0.20	0.15	0.13	0.16	23.61	ppb
Sodium	23-2	497000.86	503885.59	497219.15	499368.53	0.78	ppb
Strontium	86-1	2.77	2.66	2.71	2.71	1.94	ppb
Strontium	88-1	2.82	2.74	2.78	2.78	1.38	ppb
Sulfur	34-1	-1280.17	-1272.80	-1134.92	-1229.30		ppb
Terbium	159-1				89		%
Terbium	159-2				94		%
Thallium	203-1	0.17	0.12	0.10	0.13	25.58	ppb
Thallium	205-1	0.17	0.13	0.10	0.13	26.29	ppb
Tin	118-1	0.25	0.25	0.21	0.24	9.76	ppb
Titanium	47-1	4.68	4.39	4.23	4.44	5.14	ppb
Uranium	238-1	0.12	0.08	0.07	0.09	28.62	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.19	0.20	0.17	0.18	7.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				95		%
Zinc	66-2	13.82	13.53	13.70	13.68	1.07	ppb
Zirconium	90-1	0.62	0.57	0.58	0.59	5.09	ppb
Zirconium	91-1	0.60	0.58	0.61	0.59	2.58	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	486.44	479.80	486.34	484.19	0.79	ppb
Antimony	121-1	197.05	201.27	202.25	200.19	1.38	ppb
Arsenic	75-2	202.09	199.50	199.22	200.27	0.79	ppb
Barium	135-1	99.12	101.24	102.76	101.04	1.81	ppb
Barium	137-1	100.33	103.02	103.94	102.43	1.83	ppb
Beryllium	9-1	100.10	98.11	100.97	99.73	1.47	ppb
Bismuth	209-1				97		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	178.11	179.21	180.51	179.28	0.67	ppb
Cadmium	106-1	186.71	189.34	192.00	189.35	1.40	ppb
Cadmium	111-1	101.67	103.47	105.48	103.54	1.84	ppb
Calcium	43-1	2171.26	2195.23	2170.08	2178.86	0.65	ppb
Calcium	44-1	2186.76	2136.47	2120.84	2148.02	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.46	98.96	99.61	99.34	0.34	ppb
Cobalt	59-2	104.87	104.60	104.80	104.76	0.13	ppb
Copper	63-2	110.38	109.38	110.22	110.00	0.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				102		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	54-2	2227.68	2207.62	2223.51	2219.60	0.48	ppb
Iron	56-2	2138.86	2143.77	2163.46	2148.70	0.61	ppb
Iron	57-2	2125.95	2143.30	2136.89	2135.38	0.41	ppb
Krypton	83-1						cps
Lead	206-1	207.04	204.52	209.51	207.02	1.20	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	197.58	194.92	203.98	198.83	2.34	ppb
Lead	208-1	200.80	198.74	205.44	201.66	1.70	ppb
Lithium	6-1				94		%
Magnesium	24-2	1295.78	1284.37	1309.00	1296.38	0.95	ppb
Manganese	55-2	101.77	102.83	103.40	102.67	0.80	ppb
Molybdenum	94-1	4749.50	4789.26	4765.85	4768.21	0.42	ppb
Molybdenum	95-1	4717.31	4768.51	4713.05	4732.96	0.65	ppb
Molybdenum	96-1	4681.09	4750.69	4661.12	4697.63	1.00	ppb
Molybdenum	97-1	4652.91	4781.22	4690.48	4708.20	1.40	ppb
Molybdenum	98-1	4699.86	4818.12	4689.47	4735.82	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	104.06	103.27	104.98	104.10	0.82	ppb
Phosphorus	31-2	-18.08	-17.19	-21.38	-18.88		ppb
Potassium	39-2	1953.71	1938.94	1974.64	1955.76	0.92	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	208.17	210.99	205.58	208.25	1.30	ppb
Selenium	77-2	198.62	197.49	203.20	199.77	1.51	ppb
Selenium	78-2	211.34	208.17	209.34	209.62	0.76	ppb
Silicon	28-1	163.75	163.84	160.43	162.67	1.20	ppb
Silver	107-1	48.13	49.31	49.53	48.99	1.54	ppb
Silver	109-1	47.63	49.32	50.11	49.02	2.58	ppb
Sodium	23-2	2075.30	2048.58	2049.23	2057.70	0.74	ppb
Strontium	86-1	473.31	475.17	467.22	471.90	0.88	ppb
Strontium	88-1	463.04	469.22	460.61	464.29	0.96	ppb
Sulfur	34-1	-547.31	-664.31	-695.62	-635.75		ppb
Terbium	159-1				97		%
Terbium	159-2				101		%
Thallium	203-1	194.70	191.00	196.88	194.20	1.53	ppb
Thallium	205-1	194.51	189.60	193.22	192.44	1.32	ppb
Tin	118-1	498.86	509.71	509.76	506.11	1.24	ppb
Titanium	47-1	4740.72	4638.58	4672.93	4684.08	1.11	ppb
Uranium	238-1	459.37	456.18	466.12	460.56	1.10	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	96.74	95.92	97.27	96.65	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				101		%
Zinc	66-2	210.68	206.79	206.97	208.15	1.05	ppb
Zirconium	90-1	485.80	488.99	486.30	487.03	0.35	ppb
Zirconium	91-1	481.81	485.61	481.32	482.91	0.49	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.85	-0.91	-0.39	-0.72		ppb
Antimony	121-1	0.00	0.01	0.00	0.01	32.45	ppb
Arsenic	75-2	0.01	0.00	0.00	0.01	89.06	ppb
Barium	135-1	0.05	0.06	0.06	0.06	5.65	ppb
Barium	137-1	0.06	0.05	0.05	0.05	14.18	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	13.83	ppb
Bismuth	209-1				98		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.01	-0.02	0.00	2483.71	ppb
Cadmium	106-1	-0.25	-0.72	0.19	-0.26		ppb
Cadmium	111-1	-0.01	-0.02	0.01	-0.01		ppb
Calcium	43-1	-0.11	-0.59	-1.24	-0.64		ppb
Calcium	44-1	0.06	0.04	-0.46	-0.12		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.01	0.01	0.00		ppb
Cobalt	59-2	-0.01	0.00	0.00	-0.01		ppb
Copper	63-2	-0.06	-0.10	-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				99		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				102		%
Iron	54-2	0.17	0.27	0.57	0.34	60.60	ppb
Iron	56-2	0.09	0.07	0.04	0.07	42.96	ppb
Iron	57-2	-0.07	0.02	-0.22	-0.09		ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.06	0.06	0.06	6.80	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.06	0.05	0.05	5.79	ppb
Lead	208-1	0.05	0.06	0.06	0.06	4.58	ppb
Lithium	6-1				99		%
Magnesium	24-2	-0.70	-0.82	-0.82	-0.78		ppb
Manganese	55-2	-0.01	-0.02	-0.02	-0.02		ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00	948.90	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.01	108.34	ppb
Molybdenum	96-1	0.01	0.00	0.01	0.01	45.72	ppb
Molybdenum	97-1	0.01	0.00	0.00	0.00	309.99	ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	76.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	-0.05	0.03	-0.01		ppb
Phosphorus	31-2	-12.24	-22.81	-12.05	-15.70		ppb
Potassium	39-2	8.15	7.66	5.10	6.97	23.48	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	-0.11	0.02	-0.26	-0.12		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.37	-0.09	0.15	0.14	159.05	ppb
Silicon	28-1	-0.19	-0.02	-0.36	-0.19		ppb
Silver	107-1	0.00	0.00	0.00	0.00	17.39	ppb
Silver	109-1	0.00	0.00	0.00	0.00	13.26	ppb
Sodium	23-2	7.94	8.58	8.40	8.31	3.98	ppb
Strontium	86-1	-0.01	0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	379.27	ppb
Sulfur	34-1	-177.13	-63.99	-295.41	-178.84		ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.01	0.00	0.00	32.13	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	26.93	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.00	0.00	-0.02	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	324.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				103		%
Zinc	66-2	-0.04	-0.17	-0.12	-0.11		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	271.57	ppb
Zirconium	91-1	0.00	-0.01	0.00	0.00		ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93328.81	92240.57	92169.38	92579.59	0.70	ppb
Antimony	121-1	1.04	1.07	1.05	1.06	1.54	ppb
Arsenic	75-2	0.22	0.35	0.24	0.27	24.20	ppb
Barium	135-1	1.36	1.40	1.38	1.38	1.62	ppb
Barium	137-1	1.42	1.51	1.44	1.46	3.35	ppb
Beryllium	9-1	0.28	0.30	0.27	0.29	4.60	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	16.47	16.33	15.63	16.15	2.79	ppb
Cadmium	106-1	-1.90	-1.51	-2.25	-1.89		ppb
Cadmium	111-1	0.55	0.60	0.56	0.57	4.58	ppb
Calcium	43-1	98540.53	99157.07	101603.43	99767.01	1.62	ppb
Calcium	44-1	98669.17	100234.66	100907.77	99937.20	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.47	19.23	19.70	19.47	1.23	ppb
Cobalt	59-2	1.12	1.15	1.15	1.14	1.53	ppb
Copper	63-2	8.10	7.98	8.15	8.08	1.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	54-2	105990.30	106106.14	105209.11	105768.52	0.46	ppb
Iron	56-2	106184.50	105589.29	105466.99	105746.93	0.36	ppb
Iron	57-2	107077.79	104953.80	104009.08	105346.89	1.49	ppb
Krypton	83-1						cps
Lead	206-1	4.80	4.83	4.82	4.82	0.32	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.28	4.43	4.42	4.38	1.96	ppb
Lead	208-1	4.43	4.54	4.51	4.50	1.27	ppb
Lithium	6-1				93		%
Magnesium	24-2	105653.15	104626.94	106395.62	105558.57	0.84	ppb
Manganese	55-2	7.59	7.71	7.71	7.67	0.89	ppb
Molybdenum	94-1	1628.76	1601.23	1600.55	1610.18	1.00	ppb
Molybdenum	95-1	1994.88	1966.79	1968.53	1976.73	0.80	ppb
Molybdenum	96-1	1923.31	1942.78	1922.71	1929.60	0.59	ppb
Molybdenum	97-1	1970.53	1953.54	1959.12	1961.06	0.44	ppb
Molybdenum	98-1	1980.52	1955.96	1982.15	1972.88	0.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.18	4.87	4.95	5.00	3.23	ppb
Phosphorus	31-2	104415.91	104472.63	105914.67	104934.40	0.81	ppb
Potassium	39-2	100343.12	99155.80	101029.22	100176.05	0.95	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				99		%
Scandium	45-2				102		%
Selenium	82-1	-0.13	0.12	-0.01	0.00		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.60	0.14	0.37	0.37	62.08	ppb
Silicon	28-1	9.36	9.16	9.68	9.40	2.77	ppb
Silver	107-1	0.05	0.05	0.05	0.05	2.91	ppb
Silver	109-1	0.05	0.06	0.05	0.05	4.18	ppb
Sodium	23-2	105126.86	104824.43	104820.90	104924.07	0.17	ppb
Strontium	86-1	32.33	32.51	32.48	32.44	0.29	ppb
Strontium	88-1	32.98	33.65	33.63	33.42	1.14	ppb
Sulfur	34-1	102136.34	102003.83	105450.69	103196.96	1.89	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.13	0.14	0.15	0.14	8.12	ppb
Thallium	205-1	0.12	0.14	0.14	0.13	9.04	ppb
Tin	118-1	0.14	0.15	0.14	0.14	5.51	ppb
Titanium	47-1	2026.08	2053.31	2085.98	2055.13	1.46	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	4.25	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.14	0.15	0.14	0.14	1.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				103		%
Zinc	66-2	11.38	10.56	11.09	11.01	3.80	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.21	ppb
Zirconium	91-1	0.02	0.01	0.02	0.02	11.68	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93991.02	93443.42	93461.44	93631.96	0.33	ppb
Antimony	121-1	20.61	21.43	21.16	21.07	1.99	ppb
Arsenic	75-2	20.21	21.91	21.99	21.37	4.71	ppb
Barium	135-1	21.51	22.38	22.23	22.04	2.10	ppb
Barium	137-1	21.97	22.70	22.42	22.37	1.66	ppb
Beryllium	9-1	20.83	20.77	21.09	20.90	0.81	ppb
Bismuth	209-1				93		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	30.00	31.58	30.99	30.86	2.58	ppb
Cadmium	106-1	14.10	14.54	13.30	13.98	4.50	ppb
Cadmium	111-1	19.81	20.67	20.26	20.25	2.12	ppb
Calcium	43-1	101081.36	100076.70	100455.30	100537.79	0.50	ppb
Calcium	44-1	99599.40	101461.47	101606.65	100889.18	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.56	39.41	39.57	39.18	1.39	ppb
Cobalt	59-2	21.04	21.68	21.39	21.37	1.51	ppb
Copper	63-2	28.77	28.91	28.75	28.81	0.29	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				104		%
Holmium	165-2				104		%
Indium	115-1				99		%
Indium	115-2				101		%
Iron	54-2	105765.64	105049.45	105682.75	105499.28	0.37	ppb
Iron	56-2	104714.19	105228.14	105846.81	105263.05	0.54	ppb
Iron	57-2	104798.39	104381.19	104816.20	104665.26	0.24	ppb
Krypton	83-1						cps
Lead	206-1	26.12	26.24	26.18	26.18	0.23	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.30	25.35	25.24	25.30	0.23	ppb
Lead	208-1	25.33	25.32	25.16	25.27	0.38	ppb
Lithium	6-1				96		%
Magnesium	24-2	105490.18	107414.24	107034.60	106646.34	0.96	ppb
Manganese	55-2	27.54	28.33	27.95	27.94	1.42	ppb
Molybdenum	94-1	1596.59	1595.25	1653.23	1615.02	2.05	ppb
Molybdenum	95-1	1944.58	1967.22	2006.08	1972.63	1.58	ppb
Molybdenum	96-1	1905.10	1905.72	1969.90	1926.91	1.93	ppb
Molybdenum	97-1	1955.09	1970.34	1978.27	1967.90	0.60	ppb
Molybdenum	98-1	1964.28	1976.08	2000.48	1980.28	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.19	24.65	24.68	24.51	1.13	ppb
Phosphorus	31-2	106213.69	106771.10	106298.03	106427.60	0.28	ppb
Potassium	39-2	98758.87	99428.76	98807.36	98998.33	0.38	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				107		%
Selenium	82-1	20.22	21.50	20.83	20.85	3.08	ppb
Selenium	77-2	22.99	19.12	20.60	20.90	9.33	ppb
Selenium	78-2	21.32	23.16	22.50	22.33	4.19	ppb
Silicon	28-1	10.19	9.94	10.36	10.16	2.11	ppb
Silver	107-1	18.36	19.14	19.11	18.87	2.34	ppb
Silver	109-1	18.64	19.21	19.00	18.95	1.52	ppb
Sodium	23-2	106662.61	106226.37	106183.97	106357.65	0.25	ppb
Strontium	86-1	32.35	32.35	32.91	32.54	0.98	ppb
Strontium	88-1	33.14	33.21	33.50	33.28	0.58	ppb
Sulfur	34-1	105577.06	104374.24	104696.83	104882.71	0.59	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	20.65	20.76	20.60	20.67	0.41	ppb
Thallium	205-1	20.66	21.05	20.76	20.82	0.99	ppb
Tin	118-1	0.14	0.16	0.17	0.16	8.63	ppb
Titanium	47-1	2059.83	2072.86	2112.66	2081.78	1.32	ppb
Uranium	238-1	0.02	0.01	0.01	0.02	8.16	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.88	19.82	19.38	19.69	1.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				106		%
Zinc	66-2	30.68	31.63	30.49	30.93	1.97	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	47.77	ppb
Zirconium	91-1	0.01	0.01	0.02	0.02	29.79	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50756.74	49879.50	49264.85	49967.03	1.50	ppb
Antimony	121-1	495.40	481.25	488.79	488.48	1.45	ppb
Arsenic	75-2	495.08	492.10	494.26	493.81	0.31	ppb
Barium	135-1	2556.72	2419.29	2534.47	2503.49	2.95	ppb
Barium	137-1	2531.97	2459.19	2559.82	2516.99	2.06	ppb
Beryllium	9-1	513.60	523.35	520.05	519.00	0.96	ppb
Bismuth	209-1				88		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	486.01	471.41	486.89	481.43	1.81	ppb
Cadmium	106-1	495.85	483.00	490.56	489.80	1.32	ppb
Cadmium	111-1	488.45	483.89	489.48	487.27	0.61	ppb
Calcium	43-1	249464.80	244371.14	248940.44	247592.13	1.13	ppb
Calcium	44-1	252361.18	247365.01	250571.97	250099.39	1.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.31	501.79	486.22	499.44	2.45	ppb
Cobalt	59-2	490.54	484.39	484.69	486.54	0.71	ppb
Copper	63-2	4863.66	4832.92	4661.93	4786.17	2.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				98		%
Iron	54-2	126650.46	128142.10	125653.88	126815.48	0.99	ppb
Iron	56-2	129192.66	126259.53	125433.99	126962.06	1.56	ppb
Iron	57-2	129432.72	125938.80	125341.22	126904.25	1.74	ppb
Krypton	83-1						cps
Lead	206-1	2592.02	2554.71	2587.23	2577.99	0.79	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2569.05	2574.33	2597.30	2580.23	0.58	ppb
Lead	208-1	2564.17	2560.49	2586.16	2570.27	0.54	ppb
Lithium	6-1				91		%
Magnesium	24-2	277844.45	271000.41	268150.08	272331.65	1.83	ppb
Manganese	55-2	4958.98	4959.70	4923.40	4947.36	0.42	ppb
Molybdenum	94-1	5115.10	4962.72	5118.12	5065.31	1.75	ppb
Molybdenum	95-1	5081.06	4914.79	5086.25	5027.37	1.94	ppb
Molybdenum	96-1	5027.54	4934.60	5034.59	4998.91	1.12	ppb
Molybdenum	97-1	4998.98	4909.74	5051.33	4986.68	1.44	ppb
Molybdenum	98-1	5045.99	4941.53	5100.51	5029.34	1.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	464.94	459.24	452.34	458.84	1.37	ppb
Phosphorus	31-2	10223.68	10099.11	9796.77	10039.85	2.19	ppb
Potassium	39-2	126688.21	125420.73	123253.56	125120.83	1.39	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				104		%
Scandium	45-2				107		%
Selenium	82-1	489.10	474.15	491.49	484.91	1.94	ppb
Selenium	77-2	476.96	478.76	455.55	470.42	2.74	ppb
Selenium	78-2	489.07	500.85	478.31	489.41	2.30	ppb
Silicon	28-1	896.37	884.73	889.87	890.32	0.65	ppb
Silver	107-1	483.15	472.45	486.22	480.61	1.50	ppb
Silver	109-1	483.12	474.04	479.36	478.84	0.95	ppb
Sodium	23-2	262385.38	258963.69	254667.84	258672.30	1.49	ppb
Strontium	86-1	509.58	497.63	523.77	510.33	2.56	ppb
Strontium	88-1	505.36	493.07	505.25	501.23	1.41	ppb
Sulfur	34-1	10116.71	9541.21	9798.09	9818.67	2.94	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	517.98	510.99	512.03	513.67	0.73	ppb
Thallium	205-1	519.72	507.66	518.04	515.14	1.27	ppb
Tin	118-1	503.43	492.78	494.34	496.85	1.16	ppb
Titanium	47-1	5116.67	4957.03	5031.15	5034.95	1.59	ppb
Uranium	238-1	521.35	515.37	528.74	521.82	1.28	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	502.17	513.79	499.48	505.15	1.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				107		%
Zinc	66-2	4844.49	4732.28	4621.63	4732.80	2.35	ppb
Zirconium	90-1	522.03	501.66	518.63	514.11	2.12	ppb
Zirconium	91-1	509.45	495.49	509.94	504.96	1.62	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.07	-0.23	-0.23	-0.18		ppb
Antimony	121-1	0.03	0.03	0.02	0.03	14.43	ppb
Arsenic	75-2	-0.01	0.01	0.00	0.00	402.07	ppb
Barium	135-1	0.02	0.00	0.01	0.01	75.01	ppb
Barium	137-1	0.01	0.00	0.00	0.00	168.85	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	3.36	ppb
Bismuth	209-1				102		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.02	-0.01	0.02	141.79	ppb
Cadmium	106-1	-0.53	-1.40	-1.16	-1.03		ppb
Cadmium	111-1	0.00	-0.03	-0.02	-0.02		ppb
Calcium	43-1	1.68	0.77	-1.07	0.46	303.67	ppb
Calcium	44-1	1.70	1.26	0.49	1.15	53.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.01	0.01	-0.01		ppb
Cobalt	59-2	0.00	-0.01	-0.01	0.00		ppb
Copper	63-2	0.02	-0.01	-0.04	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				109		%
Iron	54-2	0.77	0.85	0.58	0.73	18.92	ppb
Iron	56-2	0.65	0.65	0.55	0.62	9.56	ppb
Iron	57-2	0.11	-0.03	0.51	0.20	140.67	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.09	0.07	0.08	13.09	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.08	0.09	5.98	ppb
Lead	208-1	0.09	0.09	0.07	0.08	10.01	ppb
Lithium	6-1				104		%
Magnesium	24-2	-0.23	-0.41	-0.45	-0.37		ppb
Manganese	55-2	0.03	0.03	0.01	0.02	52.10	ppb
Molybdenum	94-1	0.10	0.08	0.07	0.09	17.93	ppb
Molybdenum	95-1	0.10	0.07	0.04	0.07	46.34	ppb
Molybdenum	96-1	0.10	0.06	0.05	0.07	36.12	ppb
Molybdenum	97-1	0.09	0.07	0.05	0.07	27.43	ppb
Molybdenum	98-1	0.08	0.07	0.04	0.06	29.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.02	-0.03	0.00		ppb
Phosphorus	31-2	-19.81	-10.18	-25.75	-18.58		ppb
Potassium	39-2	20.43	20.55	18.01	19.66	7.29	ppb
Rhodium	103-1				107		%
Rhodium	103-2				109		%
Scandium	45-1				109		%
Scandium	45-2				111		%
Selenium	82-1	-0.13	-0.25	-0.31	-0.23		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.53	-0.31	-0.31	-0.03		ppb
Silicon	28-1	-0.39	0.29	-0.33	-0.14		ppb
Silver	107-1	0.01	0.01	0.01	0.01	14.63	ppb
Silver	109-1	0.01	0.01	0.01	0.01	17.55	ppb
Sodium	23-2	28.52	26.96	25.37	26.95	5.84	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	51.62	ppb
Sulfur	34-1	-797.50	-522.01	-773.69	-697.73		ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.03	0.03	0.03	5.23	ppb
Thallium	205-1	0.04	0.03	0.03	0.04	4.73	ppb
Tin	118-1	0.00	0.00	0.00	0.00	75.56	ppb
Titanium	47-1	0.05	0.04	0.04	0.05	19.99	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	116.29	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	69.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				112		%
Zinc	66-2	-0.22	-0.01	-0.09	-0.11		ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	3.76	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	51.30	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14.51	14.73	14.12	14.45	2.16	ppb
Antimony	121-1	0.73	0.76	0.75	0.75	1.47	ppb
Arsenic	75-2	0.78	0.62	0.78	0.73	13.03	ppb
Barium	135-1	3.73	3.97	3.92	3.87	3.24	ppb
Barium	137-1	3.87	3.72	3.91	3.83	2.61	ppb
Beryllium	9-1	0.75	0.74	0.76	0.75	1.03	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.79	0.76	0.68	0.74	8.18	ppb
Cadmium	106-1	-0.02	0.14	-0.10	0.01	1669.22	ppb
Cadmium	111-1	0.74	0.81	0.75	0.77	5.31	ppb
Calcium	43-1	75.89	75.90	74.15	75.32	1.33	ppb
Calcium	44-1	75.92	74.79	75.95	75.55	0.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.82	0.79	0.78	0.79	2.68	ppb
Cobalt	59-2	0.77	0.75	0.81	0.78	4.35	ppb
Copper	63-2	1.51	1.65	1.56	1.57	4.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	54-2	41.67	42.59	41.34	41.87	1.55	ppb
Iron	56-2	41.11	41.28	41.30	41.23	0.26	ppb
Iron	57-2	41.70	41.72	40.37	41.26	1.87	ppb
Krypton	83-1						cps
Lead	206-1	0.76	0.73	0.77	0.75	2.85	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.77	0.76	0.78	0.77	1.65	ppb
Lead	208-1	0.76	0.74	0.77	0.76	1.74	ppb
Lithium	6-1				103		%
Magnesium	24-2	86.53	88.24	88.75	87.84	1.32	ppb
Manganese	55-2	1.47	1.63	1.62	1.57	5.83	ppb
Molybdenum	94-1	1.95	1.98	2.01	1.98	1.68	ppb
Molybdenum	95-1	0.74	0.76	0.77	0.76	1.60	ppb
Molybdenum	96-1	0.85	0.85	0.88	0.86	1.58	ppb
Molybdenum	97-1	0.76	0.77	0.70	0.74	4.58	ppb
Molybdenum	98-1	0.75	0.74	0.73	0.74	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.77	0.83	0.74	0.78	6.14	ppb
Phosphorus	31-2	-0.12	-3.65	-1.97	-1.91		ppb
Potassium	39-2	49.27	49.26	52.84	50.45	4.10	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	0.63	0.47	0.61	0.57	15.19	ppb
Selenium	77-2	0.74	0.00	0.74	0.49	86.60	ppb
Selenium	78-2	0.36	0.79	0.58	0.58	37.83	ppb
Silicon	28-1	0.13	0.03	0.10	0.09	60.74	ppb
Silver	107-1	0.76	0.77	0.77	0.77	0.77	ppb
Silver	109-1	0.76	0.80	0.80	0.79	2.68	ppb
Sodium	23-2	94.60	95.73	93.67	94.67	1.08	ppb
Strontium	86-1	0.68	0.70	0.69	0.69	1.66	ppb
Strontium	88-1	0.69	0.72	0.71	0.71	2.10	ppb
Sulfur	34-1	-158.47	-234.07	-215.15	-202.56		ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.73	0.72	0.73	0.73	0.76	ppb
Thallium	205-1	0.72	0.71	0.72	0.72	1.20	ppb
Tin	118-1	0.78	0.99	0.76	0.84	15.01	ppb
Titanium	47-1	0.76	0.75	0.77	0.76	1.57	ppb
Uranium	238-1	0.68	0.70	0.70	0.69	1.49	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.73	0.77	0.76	0.75	2.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	1.45	1.66	1.66	1.59	7.52	ppb
Zirconium	90-1	0.71	0.73	0.73	0.73	1.35	ppb
Zirconium	91-1	0.66	0.73	0.71	0.70	4.86	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.64	7.75	7.86	7.75	1.45	ppb
Antimony	121-1	0.40	0.41	0.40	0.40	1.19	ppb
Arsenic	75-2	0.53	0.44	0.35	0.44	21.00	ppb
Barium	135-1	2.00	2.03	2.12	2.05	3.00	ppb
Barium	137-1	1.97	2.11	2.07	2.05	3.36	ppb
Beryllium	9-1	0.42	0.40	0.42	0.41	1.67	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.45	0.42	0.41	11.78	ppb
Cadmium	106-1	-0.40	0.43	0.44	0.16	304.92	ppb
Cadmium	111-1	0.41	0.42	0.43	0.42	2.26	ppb
Calcium	43-1	197.52	194.17	189.40	193.69	2.11	ppb
Calcium	44-1	194.38	196.73	194.23	195.11	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.40	0.39	0.38	0.39	3.19	ppb
Cobalt	59-2	0.43	0.43	0.39	0.42	5.10	ppb
Copper	63-2	0.80	0.86	0.77	0.81	5.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				105		%
Iron	54-2	34.04	34.58	34.16	34.26	0.82	ppb
Iron	56-2	34.68	34.97	33.46	34.37	2.34	ppb
Iron	57-2	35.70	34.53	32.58	34.27	4.60	ppb
Krypton	83-1						cps
Lead	206-1	0.45	0.42	0.43	0.43	3.33	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.43	0.43	0.42	1.91	ppb
Lead	208-1	0.43	0.42	0.42	0.42	1.31	ppb
Lithium	6-1				102		%
Magnesium	24-2	226.60	230.33	218.78	225.24	2.62	ppb
Manganese	55-2	0.79	0.75	0.81	0.79	3.77	ppb
Molybdenum	94-1	1.04	1.07	1.04	1.05	1.55	ppb
Molybdenum	95-1	0.40	0.42	0.39	0.40	3.76	ppb
Molybdenum	96-1	0.47	0.47	0.43	0.46	4.77	ppb
Molybdenum	97-1	0.38	0.43	0.41	0.41	6.36	ppb
Molybdenum	98-1	0.39	0.39	0.40	0.39	1.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.40	0.42	0.48	0.43	10.68	ppb
Phosphorus	31-2	0.82	-7.10	-4.93	-3.74		ppb
Potassium	39-2	140.51	137.59	129.29	135.80	4.29	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				104		%
Scandium	45-2				107		%
Selenium	82-1	4.48	4.23	4.68	4.46	5.01	ppb
Selenium	77-2	8.11	8.86	2.91	6.63	48.95	ppb
Selenium	78-2	5.24	6.14	3.85	5.07	22.75	ppb
Silicon	28-1	-0.08	0.10	-0.07	-0.02		ppb
Silver	107-1	0.41	0.43	0.44	0.43	3.09	ppb
Silver	109-1	0.42	0.42	0.42	0.42	0.39	ppb
Sodium	23-2	218.15	221.29	212.98	217.47	1.93	ppb
Strontium	86-1	0.39	0.39	0.39	0.39	0.76	ppb
Strontium	88-1	0.38	0.40	0.39	0.39	2.05	ppb
Sulfur	34-1	-94.40	-59.33	-158.38	-104.04		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.38	0.37	0.38	0.38	0.49	ppb
Thallium	205-1	0.39	0.38	0.38	0.38	2.45	ppb
Tin	118-1	0.42	0.41	0.40	0.41	1.89	ppb
Titanium	47-1	0.42	0.34	0.43	0.40	13.35	ppb
Uranium	238-1	0.37	0.36	0.37	0.37	1.17	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.43	0.40	0.37	0.40	7.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	1.24	1.46	1.29	1.33	8.42	ppb
Zirconium	90-1	0.38	0.41	0.39	0.39	3.91	ppb
Zirconium	91-1	0.39	0.39	0.39	0.39	0.97	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14.72	13.87	14.33	14.31	2.97	ppb
Antimony	121-1	0.72	0.73	0.77	0.74	3.27	ppb
Arsenic	75-2	0.67	0.72	0.72	0.70	4.01	ppb
Barium	135-1	3.74	3.72	3.69	3.72	0.59	ppb
Barium	137-1	3.81	3.79	3.78	3.79	0.44	ppb
Beryllium	9-1	0.75	0.73	0.77	0.75	2.84	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.76	0.67	0.73	0.72	6.36	ppb
Cadmium	106-1	1.07	0.80	1.31	1.06	24.24	ppb
Cadmium	111-1	0.80	0.72	0.79	0.77	5.81	ppb
Calcium	43-1	79.31	78.76	77.55	78.54	1.15	ppb
Calcium	44-1	74.55	75.29	76.74	75.53	1.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.74	0.76	0.73	0.75	1.59	ppb
Cobalt	59-2	0.79	0.80	0.73	0.77	4.88	ppb
Copper	63-2	1.63	1.58	1.59	1.60	1.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	54-2	41.20	41.87	42.92	42.00	2.06	ppb
Iron	56-2	41.10	40.41	40.88	40.80	0.86	ppb
Iron	57-2	39.18	42.04	40.07	40.43	3.62	ppb
Krypton	83-1						cps
Lead	206-1	0.77	0.72	0.75	0.75	3.90	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.75	0.75	0.80	0.77	3.51	ppb
Lead	208-1	0.76	0.74	0.78	0.76	2.15	ppb
Lithium	6-1				103		%
Magnesium	24-2	86.05	87.62	87.48	87.05	1.00	ppb
Manganese	55-2	1.59	1.60	1.56	1.58	1.22	ppb
Molybdenum	94-1	1.87	2.01	1.90	1.93	3.95	ppb
Molybdenum	95-1	0.73	0.74	0.74	0.74	1.07	ppb
Molybdenum	96-1	0.85	0.86	0.85	0.85	0.43	ppb
Molybdenum	97-1	0.68	0.77	0.76	0.74	6.62	ppb
Molybdenum	98-1	0.71	0.71	0.73	0.72	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.83	0.79	0.77	0.80	3.78	ppb
Phosphorus	31-2	1.13	7.67	8.20	5.67	69.47	ppb
Potassium	39-2	52.99	53.48	53.27	53.25	0.47	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	0.64	0.82	0.81	0.76	13.17	ppb
Selenium	77-2	0.73	0.00	0.00	0.24	173.21	ppb
Selenium	78-2	1.88	0.58	-0.31	0.72	153.57	ppb
Silicon	28-1	0.12	0.24	0.38	0.25	52.21	ppb
Silver	107-1	0.75	0.79	0.79	0.78	2.55	ppb
Silver	109-1	0.74	0.78	0.79	0.77	3.31	ppb
Sodium	23-2	93.10	91.59	93.73	92.81	1.19	ppb
Strontium	86-1	0.69	0.70	0.70	0.70	1.30	ppb
Strontium	88-1	0.69	0.70	0.71	0.70	1.62	ppb
Sulfur	34-1	45.74	66.09	130.71	80.84	54.88	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.71	0.69	0.71	0.70	1.15	ppb
Thallium	205-1	0.72	0.73	0.73	0.72	0.76	ppb
Tin	118-1	0.77	0.78	0.79	0.78	1.36	ppb
Titanium	47-1	0.75	0.73	0.72	0.73	1.79	ppb
Uranium	238-1	0.70	0.70	0.70	0.70	0.28	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.76	0.77	0.68	0.74	6.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	1.71	1.62	1.25	1.53	15.83	ppb
Zirconium	90-1	0.72	0.74	0.75	0.74	1.94	ppb
Zirconium	91-1	0.73	0.71	0.73	0.73	1.59	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.94	9.11	8.18	8.08	13.48	ppb
Antimony	121-1	0.41	0.41	0.42	0.41	1.17	ppb
Arsenic	75-2	0.48	0.41	0.32	0.40	20.03	ppb
Barium	135-1	2.06	2.12	2.09	2.09	1.49	ppb
Barium	137-1	2.04	2.20	2.08	2.10	3.99	ppb
Beryllium	9-1	0.39	0.41	0.41	0.41	2.31	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.49	0.39	0.43	11.79	ppb
Cadmium	106-1	1.06	0.73	1.32	1.04	28.80	ppb
Cadmium	111-1	0.39	0.43	0.49	0.44	10.84	ppb
Calcium	43-1	197.82	199.80	188.86	195.49	2.98	ppb
Calcium	44-1	193.51	195.99	189.67	193.06	1.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.42	0.42	0.43	0.42	1.60	ppb
Cobalt	59-2	0.41	0.42	0.45	0.43	4.62	ppb
Copper	63-2	0.76	0.83	0.86	0.82	5.98	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				101		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	54-2	35.20	35.15	34.27	34.87	1.50	ppb
Iron	56-2	34.21	34.99	34.35	34.51	1.21	ppb
Iron	57-2	31.55	32.75	33.91	32.73	3.61	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.45	0.41	0.43	3.93	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.42	0.44	0.43	0.43	1.93	ppb
Lead	208-1	0.42	0.44	0.42	0.43	2.26	ppb
Lithium	6-1				103		%
Magnesium	24-2	226.91	228.00	226.42	227.11	0.36	ppb
Manganese	55-2	0.85	0.86	0.84	0.85	1.07	ppb
Molybdenum	94-1	1.03	1.05	1.05	1.05	1.13	ppb
Molybdenum	95-1	0.38	0.44	0.40	0.41	8.33	ppb
Molybdenum	96-1	0.46	0.49	0.45	0.46	4.91	ppb
Molybdenum	97-1	0.37	0.37	0.38	0.37	1.39	ppb
Molybdenum	98-1	0.40	0.39	0.38	0.39	2.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.33	0.43	0.40	0.39	13.98	ppb
Phosphorus	31-2	-12.08	-10.06	-12.93	-11.69		ppb
Potassium	39-2	136.16	137.49	134.86	136.17	0.97	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	4.50	4.69	4.42	4.54	3.05	ppb
Selenium	77-2	2.24	5.96	5.19	4.46	43.99	ppb
Selenium	78-2	6.66	4.62	5.05	5.44	19.72	ppb
Silicon	28-1	-0.14	-0.07	-0.06	-0.09		ppb
Silver	107-1	0.42	0.44	0.44	0.43	1.71	ppb
Silver	109-1	0.41	0.44	0.42	0.42	3.05	ppb
Sodium	23-2	221.42	220.55	218.64	220.21	0.65	ppb
Strontium	86-1	0.38	0.38	0.37	0.38	1.36	ppb
Strontium	88-1	0.38	0.38	0.39	0.38	1.46	ppb
Sulfur	34-1	161.56	187.53	-13.37	111.91	97.64	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.37	0.39	0.37	0.38	3.23	ppb
Thallium	205-1	0.39	0.40	0.39	0.39	2.45	ppb
Tin	118-1	0.42	0.43	0.42	0.43	1.00	ppb
Titanium	47-1	0.38	0.37	0.42	0.39	6.45	ppb
Uranium	238-1	0.37	0.38	0.38	0.38	0.59	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.39	0.39	0.38	3.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				104		%
Zinc	66-2	0.97	0.81	0.61	0.80	22.86	ppb
Zirconium	90-1	0.38	0.41	0.40	0.40	3.26	ppb
Zirconium	91-1	0.38	0.38	0.38	0.38	0.52	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15.22	13.70	14.77	14.56	5.34	ppb
Antimony	121-1	0.75	0.78	0.75	0.76	2.21	ppb
Arsenic	75-2	0.73	0.87	0.78	0.79	8.97	ppb
Barium	135-1	3.82	3.96	3.82	3.87	2.09	ppb
Barium	137-1	3.80	3.93	4.00	3.91	2.54	ppb
Beryllium	9-1	0.75	0.78	0.78	0.77	1.93	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.89	0.74	0.70	0.78	13.10	ppb
Cadmium	106-1	0.73	1.03	0.74	0.83	20.97	ppb
Cadmium	111-1	0.77	0.86	0.79	0.81	6.20	ppb
Calcium	43-1	77.03	75.41	77.19	76.54	1.29	ppb
Calcium	44-1	76.83	77.55	77.10	77.16	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.80	0.76	0.75	0.77	2.87	ppb
Cobalt	59-2	0.78	0.80	0.80	0.79	1.33	ppb
Copper	63-2	1.62	1.59	1.59	1.60	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				101		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	43.94	40.94	41.25	42.04	3.92	ppb
Iron	56-2	41.72	41.74	41.61	41.69	0.17	ppb
Iron	57-2	39.39	44.02	42.01	41.81	5.56	ppb
Krypton	83-1						cps
Lead	206-1	0.75	0.77	0.76	0.76	1.23	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.76	0.82	0.78	0.79	3.86	ppb
Lead	208-1	0.74	0.78	0.76	0.76	2.46	ppb
Lithium	6-1				103		%
Magnesium	24-2	89.51	91.46	89.90	90.29	1.15	ppb
Manganese	55-2	1.56	1.54	1.51	1.54	1.78	ppb
Molybdenum	94-1	1.90	1.97	1.96	1.95	1.89	ppb
Molybdenum	95-1	0.77	0.75	0.79	0.77	2.42	ppb
Molybdenum	96-1	0.82	0.88	0.84	0.85	3.26	ppb
Molybdenum	97-1	0.75	0.76	0.76	0.75	0.89	ppb
Molybdenum	98-1	0.72	0.73	0.72	0.72	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.77	0.73	0.62	0.71	11.17	ppb
Phosphorus	31-2	11.63	0.48	0.49	4.20	153.19	ppb
Potassium	39-2	48.37	51.51	52.65	50.85	4.36	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	0.60	0.53	0.76	0.63	18.46	ppb
Selenium	77-2	0.00	1.49	0.75	0.75	100.00	ppb
Selenium	78-2	0.14	1.04	0.14	0.44	117.65	ppb
Silicon	28-1	0.16	0.00	0.48	0.21	112.20	ppb
Silver	107-1	0.80	0.80	0.80	0.80	0.37	ppb
Silver	109-1	0.80	0.81	0.79	0.80	0.94	ppb
Sodium	23-2	92.80	92.96	95.05	93.60	1.34	ppb
Strontium	86-1	0.69	0.67	0.73	0.70	4.53	ppb
Strontium	88-1	0.70	0.72	0.73	0.71	2.02	ppb
Sulfur	34-1	-9.00	-17.76	107.64	26.96	259.68	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.72	0.73	0.72	0.72	0.99	ppb
Thallium	205-1	0.70	0.72	0.73	0.72	2.17	ppb
Tin	118-1	0.78	0.83	0.76	0.79	4.63	ppb
Titanium	47-1	0.74	0.71	0.80	0.75	6.10	ppb
Uranium	238-1	0.69	0.72	0.69	0.70	2.39	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.73	0.71	0.76	0.73	3.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	1.62	1.60	1.63	1.61	0.92	ppb
Zirconium	90-1	0.76	0.73	0.75	0.75	1.78	ppb
Zirconium	91-1	0.71	0.70	0.75	0.72	3.66	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.12	7.31	7.14	7.19	1.47	ppb
Antimony	121-1	0.40	0.40	0.40	0.40	0.22	ppb
Arsenic	75-2	0.36	0.43	0.31	0.37	16.85	ppb
Barium	135-1	2.06	2.05	2.06	2.06	0.42	ppb
Barium	137-1	2.07	2.05	2.08	2.07	0.75	ppb
Beryllium	9-1	0.39	0.41	0.40	0.40	2.07	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.44	0.46	0.44	4.72	ppb
Cadmium	106-1	0.30	0.19	0.42	0.30	38.64	ppb
Cadmium	111-1	0.40	0.42	0.41	0.41	2.44	ppb
Calcium	43-1	192.41	188.37	187.77	189.52	1.33	ppb
Calcium	44-1	190.36	192.46	190.83	191.21	0.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.42	0.41	0.42	0.42	1.20	ppb
Cobalt	59-2	0.43	0.42	0.42	0.43	1.16	ppb
Copper	63-2	0.79	0.82	0.86	0.82	4.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	54-2	36.31	34.97	36.27	35.85	2.13	ppb
Iron	56-2	34.33	34.39	34.56	34.43	0.35	ppb
Iron	57-2	33.22	31.74	34.33	33.10	3.92	ppb
Krypton	83-1						cps
Lead	206-1	0.42	0.43	0.42	0.42	0.95	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.43	0.44	0.42	0.43	1.84	ppb
Lead	208-1	0.42	0.42	0.42	0.42	0.20	ppb
Lithium	6-1				104		%
Magnesium	24-2	229.04	226.66	227.48	227.73	0.53	ppb
Manganese	55-2	0.84	0.77	0.81	0.81	4.33	ppb
Molybdenum	94-1	1.01	1.03	1.02	1.02	0.93	ppb
Molybdenum	95-1	0.40	0.40	0.38	0.39	3.03	ppb
Molybdenum	96-1	0.43	0.47	0.47	0.46	5.04	ppb
Molybdenum	97-1	0.39	0.38	0.39	0.38	1.38	ppb
Molybdenum	98-1	0.38	0.40	0.39	0.39	2.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.45	0.36	0.39	0.40	11.76	ppb
Phosphorus	31-2	-5.91	-10.01	-13.73	-9.88		ppb
Potassium	39-2	136.32	135.67	136.80	136.26	0.41	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	4.39	4.39	4.34	4.38	0.72	ppb
Selenium	77-2	0.74	2.97	2.98	2.23	57.86	ppb
Selenium	78-2	6.60	2.37	3.05	4.01	56.67	ppb
Silicon	28-1	-0.20	-0.08	-0.14	-0.14		ppb
Silver	107-1	0.43	0.43	0.42	0.43	0.21	ppb
Silver	109-1	0.42	0.43	0.42	0.42	0.81	ppb
Sodium	23-2	218.43	216.18	217.79	217.46	0.53	ppb
Strontium	86-1	0.36	0.38	0.36	0.36	2.74	ppb
Strontium	88-1	0.38	0.39	0.38	0.38	0.57	ppb
Sulfur	34-1	-80.28	-67.41	-146.31	-98.00		ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.39	0.37	0.39	0.38	2.06	ppb
Thallium	205-1	0.39	0.38	0.38	0.38	1.46	ppb
Tin	118-1	0.42	0.41	0.44	0.42	2.88	ppb
Titanium	47-1	0.45	0.40	0.39	0.41	7.40	ppb
Uranium	238-1	0.37	0.37	0.38	0.37	1.54	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.42	0.40	0.39	6.28	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	0.94	0.86	0.86	0.89	4.88	ppb
Zirconium	90-1	0.39	0.39	0.40	0.39	0.69	ppb
Zirconium	91-1	0.40	0.38	0.38	0.39	2.79	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.54	7.06	8.90	7.83	12.18	ppb
Antimony	121-1	0.40	0.40	0.40	0.40	0.71	ppb
Arsenic	75-2	0.55	0.54	0.38	0.49	19.10	ppb
Barium	135-1	1.99	1.98	2.02	2.00	0.93	ppb
Barium	137-1	2.10	2.02	2.09	2.07	2.09	ppb
Beryllium	9-1	0.39	0.39	0.39	0.39	0.93	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.24	0.40	0.36	0.33	24.64	ppb
Cadmium	106-1	-0.29	-0.17	0.04	-0.14		ppb
Cadmium	111-1	0.42	0.44	0.42	0.42	2.51	ppb
Calcium	43-1	193.24	190.98	192.52	192.25	0.60	ppb
Calcium	44-1	194.95	189.57	190.04	191.52	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.40	0.39	0.44	0.41	6.55	ppb
Cobalt	59-2	0.41	0.42	0.41	0.41	1.40	ppb
Copper	63-2	0.81	0.76	0.77	0.78	3.34	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				103		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	54-2	34.88	33.67	33.41	33.99	2.32	ppb
Iron	56-2	34.36	33.49	34.29	34.05	1.41	ppb
Iron	57-2	33.38	34.20	32.44	33.34	2.65	ppb
Krypton	83-1						cps
Lead	206-1	0.41	0.39	0.40	0.40	1.54	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.43	0.40	0.41	0.41	4.04	ppb
Lead	208-1	0.41	0.40	0.41	0.41	0.67	ppb
Lithium	6-1				105		%
Magnesium	24-2	227.67	222.27	223.64	224.53	1.25	ppb
Manganese	55-2	0.91	0.82	0.86	0.86	5.24	ppb
Molybdenum	94-1	1.04	1.04	1.09	1.06	2.62	ppb
Molybdenum	95-1	0.39	0.40	0.39	0.39	1.61	ppb
Molybdenum	96-1	0.48	0.45	0.44	0.46	4.58	ppb
Molybdenum	97-1	0.41	0.40	0.39	0.40	2.14	ppb
Molybdenum	98-1	0.40	0.38	0.39	0.39	2.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.44	0.38	0.33	0.39	14.73	ppb
Phosphorus	31-2	-8.63	-3.54	-11.06	-7.74		ppb
Potassium	39-2	136.51	126.86	129.97	131.11	3.76	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	4.89	4.32	4.76	4.66	6.39	ppb
Selenium	77-2	7.49	3.62	1.47	4.19	72.72	ppb
Selenium	78-2	6.00	5.79	5.23	5.67	7.07	ppb
Silicon	28-1	0.17	-0.37	-0.21	-0.13		ppb
Silver	107-1	0.41	0.39	0.41	0.41	3.07	ppb
Silver	109-1	0.42	0.40	0.41	0.41	3.06	ppb
Sodium	23-2	221.90	207.86	211.74	213.83	3.39	ppb
Strontium	86-1	0.33	0.35	0.36	0.35	3.98	ppb
Strontium	88-1	0.38	0.38	0.38	0.38	0.45	ppb
Sulfur	34-1	-89.21	-363.43	-225.04	-225.90		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.38	0.37	0.38	0.38	1.57	ppb
Thallium	205-1	0.38	0.38	0.38	0.38	0.84	ppb
Tin	118-1	0.42	0.40	0.40	0.41	3.39	ppb
Titanium	47-1	0.40	0.40	0.39	0.40	0.74	ppb
Uranium	238-1	0.37	0.37	0.37	0.37	0.38	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.42	0.41	0.43	0.42	2.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	0.90	0.81	0.80	0.84	6.38	ppb
Zirconium	90-1	0.39	0.39	0.38	0.38	1.20	ppb
Zirconium	91-1	0.37	0.41	0.39	0.39	5.15	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.47	8.24	7.28	7.67	6.62	ppb
Antimony	121-1	0.41	0.39	0.40	0.40	1.83	ppb
Arsenic	75-2	0.40	0.40	0.38	0.40	2.78	ppb
Barium	135-1	1.94	2.06	1.99	2.00	3.06	ppb
Barium	137-1	1.99	2.04	2.05	2.03	1.65	ppb
Beryllium	9-1	0.40	0.40	0.39	0.40	1.70	ppb
Bismuth	209-1				100		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.40	0.52	0.46	0.46	13.92	ppb
Cadmium	106-1	0.45	0.67	-0.50	0.21	297.26	ppb
Cadmium	111-1	0.41	0.42	0.40	0.41	2.04	ppb
Calcium	43-1	187.92	191.03	192.21	190.39	1.16	ppb
Calcium	44-1	189.76	192.72	194.37	192.28	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.42	0.41	0.42	0.42	0.98	ppb
Cobalt	59-2	0.40	0.43	0.38	0.41	5.74	ppb
Copper	63-2	0.85	0.82	0.76	0.81	5.66	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				102		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	36.54	35.04	35.90	35.83	2.10	ppb
Iron	56-2	34.92	34.96	34.50	34.79	0.74	ppb
Iron	57-2	35.04	35.73	34.72	35.16	1.47	ppb
Krypton	83-1						cps
Lead	206-1	0.42	0.42	0.41	0.42	0.47	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.42	0.41	0.41	1.04	ppb
Lead	208-1	0.41	0.42	0.41	0.41	0.85	ppb
Lithium	6-1				105		%
Magnesium	24-2	227.74	230.05	233.21	230.33	1.19	ppb
Manganese	55-2	0.84	0.86	0.84	0.85	1.65	ppb
Molybdenum	94-1	1.09	1.06	1.06	1.07	1.45	ppb
Molybdenum	95-1	0.41	0.40	0.41	0.41	1.92	ppb
Molybdenum	96-1	0.45	0.44	0.45	0.45	0.37	ppb
Molybdenum	97-1	0.42	0.39	0.40	0.40	4.61	ppb
Molybdenum	98-1	0.39	0.41	0.40	0.40	1.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.46	0.49	0.47	0.47	3.31	ppb
Phosphorus	31-2	-3.88	-13.82	-9.08	-8.93		ppb
Potassium	39-2	132.71	136.77	134.70	134.73	1.50	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	4.41	4.74	4.78	4.64	4.48	ppb
Selenium	77-2	7.35	5.10	4.43	5.62	27.19	ppb
Selenium	78-2	5.00	4.95	3.46	4.47	19.50	ppb
Silicon	28-1	-0.38	-0.23	-0.07	-0.23		ppb
Silver	107-1	0.41	0.42	0.40	0.41	2.38	ppb
Silver	109-1	0.42	0.41	0.41	0.41	1.84	ppb
Sodium	23-2	220.05	219.11	217.72	218.96	0.54	ppb
Strontium	86-1	0.41	0.34	0.38	0.38	8.91	ppb
Strontium	88-1	0.37	0.38	0.38	0.38	1.62	ppb
Sulfur	34-1	-258.05	-139.67	-48.28	-148.66		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.36	0.37	0.37	0.37	1.37	ppb
Thallium	205-1	0.38	0.38	0.38	0.38	0.87	ppb
Tin	118-1	0.40	0.42	0.41	0.41	2.87	ppb
Titanium	47-1	0.40	0.41	0.42	0.41	2.13	ppb
Uranium	238-1	0.37	0.38	0.38	0.37	2.00	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.39	0.44	0.42	0.41	5.34	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	0.92	0.86	0.90	0.89	3.55	ppb
Zirconium	90-1	0.38	0.40	0.38	0.39	2.62	ppb
Zirconium	91-1	0.38	0.41	0.37	0.39	5.23	ppb

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.24	6.42	7.31	7.32	12.47	ppb
Antimony	121-1	0.41	0.41	0.41	0.41	0.65	ppb
Arsenic	75-2	0.43	0.41	0.32	0.39	15.33	ppb
Barium	135-1	2.03	2.03	2.04	2.04	0.36	ppb
Barium	137-1	2.00	2.09	2.11	2.07	2.92	ppb
Beryllium	9-1	0.40	0.40	0.41	0.40	1.56	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.47	0.47	0.48	0.47	1.90	ppb
Cadmium	106-1	0.14	0.64	-0.09	0.23	161.40	ppb
Cadmium	111-1	0.37	0.41	0.41	0.40	4.73	ppb
Calcium	43-1	193.59	199.80	196.83	196.74	1.58	ppb
Calcium	44-1	191.58	194.42	193.79	193.26	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.40	0.37	0.38	4.68	ppb
Cobalt	59-2	0.42	0.43	0.41	0.42	3.31	ppb
Copper	63-2	0.85	0.82	0.84	0.84	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				101		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				103		%
Iron	54-2	30.64	34.90	35.08	33.54	7.49	ppb
Iron	56-2	33.72	34.57	34.83	34.37	1.69	ppb
Iron	57-2	33.63	34.54	34.06	34.08	1.34	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.41	0.43	0.41	3.82	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.42	0.43	0.42	0.43	1.22	ppb
Lead	208-1	0.42	0.41	0.43	0.42	1.64	ppb
Lithium	6-1				104		%
Magnesium	24-2	228.26	228.30	226.57	227.71	0.43	ppb
Manganese	55-2	0.75	0.87	0.78	0.80	7.70	ppb
Molybdenum	94-1	1.03	1.04	1.07	1.05	1.96	ppb
Molybdenum	95-1	0.41	0.41	0.40	0.40	0.71	ppb
Molybdenum	96-1	0.46	0.47	0.48	0.47	2.28	ppb
Molybdenum	97-1	0.39	0.43	0.43	0.42	5.13	ppb
Molybdenum	98-1	0.40	0.40	0.39	0.40	0.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.34	0.38	0.41	0.38	9.22	ppb
Phosphorus	31-2	-13.25	-5.93	-10.91	-10.03		ppb
Potassium	39-2	131.61	133.63	132.65	132.63	0.76	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	5.04	4.45	4.09	4.53	10.59	ppb
Selenium	77-2	3.69	3.76	5.95	4.47	28.78	ppb
Selenium	78-2	3.69	3.76	2.15	3.20	28.40	ppb
Silicon	28-1	-0.08	0.49	-0.11	0.10	337.33	ppb
Silver	107-1	0.41	0.42	0.43	0.42	1.87	ppb
Silver	109-1	0.41	0.43	0.42	0.42	2.67	ppb
Sodium	23-2	212.11	219.40	216.21	215.91	1.69	ppb
Strontium	86-1	0.33	0.38	0.38	0.36	7.50	ppb
Strontium	88-1	0.37	0.39	0.38	0.38	1.81	ppb
Sulfur	34-1	7.13	95.81	80.31	61.08	77.54	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.38	0.38	0.37	0.38	1.48	ppb
Thallium	205-1	0.38	0.38	0.39	0.38	1.38	ppb
Tin	118-1	0.42	0.40	0.43	0.42	2.98	ppb
Titanium	47-1	0.42	0.42	0.43	0.42	1.37	ppb
Uranium	238-1	0.38	0.38	0.37	0.38	0.87	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.42	0.35	0.42	0.39	10.20	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	1.01	0.84	0.77	0.87	14.45	ppb
Zirconium	90-1	0.40	0.39	0.38	0.39	1.90	ppb
Zirconium	91-1	0.37	0.38	0.38	0.38	1.99	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.42	-0.79	-0.80	-0.67		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	11.99	ppb
Arsenic	75-2	0.01	0.00	0.00	0.01	79.52	ppb
Barium	135-1	0.04	0.03	0.04	0.04	20.97	ppb
Barium	137-1	0.03	0.02	0.02	0.02	11.48	ppb
Beryllium	9-1	0.00	0.00	-0.01	0.00		ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.03	0.00	0.03	77.75	ppb
Cadmium	106-1	0.59	1.06	0.21	0.62	68.85	ppb
Cadmium	111-1	0.01	0.02	0.00	0.01	77.88	ppb
Calcium	43-1	1.20	-0.09	0.66	0.59	109.19	ppb
Calcium	44-1	0.86	1.22	1.20	1.09	18.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	0.02	0.01	81.61	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.07	-0.07	-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				101		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	0.13	0.25	0.74	0.37	84.99	ppb
Iron	56-2	0.12	0.12	0.09	0.11	15.00	ppb
Iron	57-2	-0.02	-0.16	-0.17	-0.12		ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.01	0.02	13.29	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.01	0.03	0.02	34.99	ppb
Lead	208-1	0.02	0.02	0.02	0.02	19.30	ppb
Lithium	6-1				103		%
Magnesium	24-2	-0.59	-0.35	-0.32	-0.42		ppb
Manganese	55-2	0.04	0.03	-0.01	0.02	140.77	ppb
Molybdenum	94-1	0.00	0.01	0.01	0.01	42.64	ppb
Molybdenum	95-1	0.01	0.00	0.01	0.01	16.43	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	239.45	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	262.24	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	495.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.00	0.00	0.00		ppb
Phosphorus	31-2	-17.15	-20.40	-21.56	-19.70		ppb
Potassium	39-2	8.43	15.34	11.93	11.90	29.02	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	0.15	-0.39	0.06	-0.06		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.12	-0.08	-0.08	-0.01		ppb
Silicon	28-1	-0.35	-0.31	-0.13	-0.26		ppb
Silver	107-1	0.01	0.01	0.00	0.01	30.16	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.15	ppb
Sodium	23-2	7.71	9.87	9.85	9.14	13.58	ppb
Strontium	86-1	-0.02	0.00	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	72.73	ppb
Sulfur	34-1	9.66	76.51	223.42	103.20	105.96	ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.00	0.00	0.00	0.00	139.40	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	128.48	ppb
Tin	118-1	0.00	0.00	0.01	0.00	183.67	ppb
Titanium	47-1	0.01	0.00	-0.01	0.00	16230.44	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	26.75	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	0.10	0.08	0.23	0.14	62.30	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	234.34	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52123.43	50698.44	50194.37	51005.41	1.96	ppb
Antimony	121-1	483.41	478.09	480.76	480.75	0.55	ppb
Arsenic	75-2	495.14	488.11	479.02	487.42	1.66	ppb
Barium	135-1	2483.44	2477.07	2472.51	2477.67	0.22	ppb
Barium	137-1	2485.32	2501.55	2487.83	2491.57	0.35	ppb
Beryllium	9-1	513.34	509.99	512.97	512.10	0.36	ppb
Bismuth	209-1				85		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	486.87	478.14	475.97	480.33	1.20	ppb
Cadmium	106-1	477.81	481.09	481.35	480.08	0.41	ppb
Cadmium	111-1	481.55	475.62	484.73	480.63	0.96	ppb
Calcium	43-1	241038.14	245827.85	247476.72	244780.90	1.37	ppb
Calcium	44-1	244458.89	248964.40	250317.23	247913.51	1.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	524.25	505.71	501.88	510.61	2.34	ppb
Cobalt	59-2	508.07	502.32	494.82	501.74	1.32	ppb
Copper	63-2	4930.73	4830.86	4829.32	4863.64	1.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				96		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	54-2	132711.73	128991.41	128601.92	130101.68	1.74	ppb
Iron	56-2	133814.06	127787.56	128986.88	130196.16	2.45	ppb
Iron	57-2	132138.98	127775.75	127675.46	129196.73	1.97	ppb
Krypton	83-1						cps
Lead	206-1	2533.56	2516.90	2579.27	2543.24	1.27	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2540.95	2528.84	2584.77	2551.52	1.15	ppb
Lead	208-1	2545.00	2525.99	2562.14	2544.37	0.71	ppb
Lithium	6-1				87		%
Magnesium	24-2	284072.17	274599.94	276589.78	278420.63	1.79	ppb
Manganese	55-2	5141.03	4970.05	5027.34	5046.14	1.72	ppb
Molybdenum	94-1	4900.29	4968.86	5047.95	4972.37	1.49	ppb
Molybdenum	95-1	4798.49	4902.90	4964.54	4888.65	1.72	ppb
Molybdenum	96-1	4834.65	4880.92	4947.52	4887.70	1.16	ppb
Molybdenum	97-1	4867.60	4895.29	5055.44	4939.44	2.05	ppb
Molybdenum	98-1	4918.99	4952.26	5068.14	4979.80	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	478.55	463.72	463.88	468.72	1.82	ppb
Phosphorus	31-2	10343.41	9730.85	10081.23	10051.83	3.06	ppb
Potassium	39-2	128310.29	123737.58	126116.67	126054.85	1.81	ppb
Rhodium	103-1				86		%
Rhodium	103-2				85		%
Scandium	45-1				95		%
Scandium	45-2				96		%
Selenium	82-1	467.61	478.08	479.78	475.16	1.39	ppb
Selenium	77-2	460.74	474.59	468.76	468.03	1.49	ppb
Selenium	78-2	506.66	467.75	466.06	480.16	4.78	ppb
Silicon	28-1	892.51	909.65	909.83	904.00	1.10	ppb
Silver	107-1	467.65	466.40	463.72	465.92	0.43	ppb
Silver	109-1	464.98	459.55	467.52	464.02	0.88	ppb
Sodium	23-2	268028.99	258993.91	262352.77	263125.22	1.74	ppb
Strontium	86-1	490.37	500.40	505.54	498.77	1.55	ppb
Strontium	88-1	485.43	491.12	491.70	489.42	0.71	ppb
Sulfur	34-1	10312.41	10260.64	10268.01	10280.35	0.27	ppb
Terbium	159-1				94		%
Terbium	159-2				94		%
Thallium	203-1	505.77	498.54	507.23	503.85	0.92	ppb
Thallium	205-1	495.55	500.63	512.55	502.91	1.74	ppb
Tin	118-1	489.56	480.71	497.15	489.14	1.68	ppb
Titanium	47-1	4900.35	5024.10	5055.29	4993.25	1.64	ppb
Uranium	238-1	520.40	516.64	529.78	522.27	1.30	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	515.18	496.05	499.09	503.44	2.04	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	4925.56	4777.95	4897.46	4866.99	1.61	ppb
Zirconium	90-1	491.33	507.83	511.92	503.70	2.16	ppb
Zirconium	91-1	481.92	503.44	504.55	496.63	2.57	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.38	0.02	0.24	0.21	86.36	ppb
Antimony	121-1	0.11	0.10	0.08	0.10	16.36	ppb
Arsenic	75-2	0.00	0.04	-0.01	0.01	221.75	ppb
Barium	135-1	0.08	0.06	0.05	0.06	28.40	ppb
Barium	137-1	0.07	0.06	0.06	0.06	9.41	ppb
Beryllium	9-1	0.07	0.06	0.06	0.06	10.92	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.07	0.02	0.06	57.76	ppb
Cadmium	106-1	-1.23	-0.87	-1.14	-1.08		ppb
Cadmium	111-1	0.00	-0.01	-0.01	-0.01		ppb
Calcium	43-1	5.89	7.63	4.55	6.02	25.66	ppb
Calcium	44-1	8.07	7.05	5.27	6.80	20.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	0.01	0.00	336.08	ppb
Cobalt	59-2	0.00	0.01	0.00	0.00	112.08	ppb
Copper	63-2	0.20	0.10	0.11	0.14	40.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				104		%
Indium	115-1				105		%
Indium	115-2				106		%
Iron	54-2	4.04	2.66	3.50	3.40	20.39	ppb
Iron	56-2	3.00	2.98	2.91	2.96	1.48	ppb
Iron	57-2	3.40	2.95	3.38	3.24	7.77	ppb
Krypton	83-1						cps
Lead	206-1	0.23	0.21	0.17	0.20	15.65	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.20	0.18	0.21	14.07	ppb
Lead	208-1	0.24	0.21	0.18	0.21	14.53	ppb
Lithium	6-1				99		%
Magnesium	24-2	5.04	4.69	4.62	4.78	4.70	ppb
Manganese	55-2	0.16	0.16	0.11	0.14	21.94	ppb
Molybdenum	94-1	0.33	0.30	0.24	0.29	15.00	ppb
Molybdenum	95-1	0.29	0.25	0.23	0.26	12.46	ppb
Molybdenum	96-1	0.29	0.27	0.21	0.25	15.89	ppb
Molybdenum	97-1	0.27	0.23	0.21	0.24	14.28	ppb
Molybdenum	98-1	0.29	0.24	0.21	0.24	17.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	-0.05	-0.10	-0.04		ppb
Phosphorus	31-2	-6.91	-24.14	-22.34	-17.80		ppb
Potassium	39-2	19.29	17.42	16.52	17.75	7.98	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	-0.05	-0.08	0.07	-0.02		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.10	0.56	-0.09	0.12	309.88	ppb
Silicon	28-1	-0.36	-0.07	-0.41	-0.28		ppb
Silver	107-1	0.08	0.07	0.05	0.06	24.11	ppb
Silver	109-1	0.08	0.06	0.05	0.06	25.73	ppb
Sodium	23-2	30.70	30.33	28.08	29.71	4.78	ppb
Strontium	86-1	0.00	0.01	-0.01	0.00	529.38	ppb
Strontium	88-1	0.02	0.02	0.01	0.02	17.13	ppb
Sulfur	34-1	-1197.29	-1001.28	-1073.40	-1090.66		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.03	0.03	0.03	14.90	ppb
Thallium	205-1	0.04	0.03	0.02	0.03	21.16	ppb
Tin	118-1	0.02	0.06	0.02	0.03	69.68	ppb
Titanium	47-1	0.20	0.16	0.09	0.15	34.91	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	24.60	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.00	0.01	67.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				108		%
Zinc	66-2	0.07	0.11	0.02	0.07	64.59	ppb
Zirconium	90-1	0.06	0.05	0.05	0.05	12.66	ppb
Zirconium	91-1	0.06	0.04	0.04	0.05	25.35	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.70	39.36	42.12	40.73	3.38	ppb
Antimony	121-1	4.03	4.06	4.11	4.07	1.03	ppb
Arsenic	75-2	2.30	2.25	2.27	2.27	1.21	ppb
Barium	135-1	20.03	20.56	20.86	20.48	2.07	ppb
Barium	137-1	20.78	20.69	20.95	20.81	0.64	ppb
Beryllium	9-1	2.03	2.10	2.10	2.08	1.98	ppb
Bismuth	209-1				99		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	2.27	2.10	2.09	2.15	4.65	ppb
Cadmium	106-1	3.03	2.02	1.51	2.19	35.49	ppb
Cadmium	111-1	2.12	2.17	2.12	2.14	1.39	ppb
Calcium	43-1	1009.68	1021.45	1046.66	1025.93	1.84	ppb
Calcium	44-1	1012.15	1027.28	1056.03	1031.82	2.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.98	3.93	3.93	3.95	0.70	ppb
Cobalt	59-2	2.13	2.08	2.17	2.13	2.12	ppb
Copper	63-2	4.76	4.60	4.69	4.68	1.75	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				105		%
Iron	54-2	444.97	432.38	447.72	441.69	1.85	ppb
Iron	56-2	441.04	433.29	439.39	437.90	0.93	ppb
Iron	57-2	437.03	425.06	440.78	434.29	1.89	ppb
Krypton	83-1						cps
Lead	206-1	2.02	2.03	2.05	2.03	0.81	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.02	2.05	2.14	2.07	2.99	ppb
Lead	208-1	2.02	2.02	2.08	2.04	1.75	ppb
Lithium	6-1				102		%
Magnesium	24-2	1111.17	1101.66	1117.95	1110.26	0.74	ppb
Manganese	55-2	2.05	2.13	2.22	2.13	4.08	ppb
Molybdenum	94-1	11.77	12.01	12.31	12.03	2.25	ppb
Molybdenum	95-1	9.85	10.03	10.57	10.15	3.70	ppb
Molybdenum	96-1	9.93	10.07	10.56	10.19	3.25	ppb
Molybdenum	97-1	9.95	10.24	10.41	10.20	2.25	ppb
Molybdenum	98-1	9.78	10.01	10.30	10.03	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.09	2.10	2.03	2.07	2.04	ppb
Phosphorus	31-2	42.22	32.91	32.95	36.03	14.88	ppb
Potassium	39-2	1030.95	1002.09	1023.16	1018.73	1.47	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				103		%
Scandium	45-2				106		%
Selenium	82-1	10.62	10.57	11.16	10.78	3.01	ppb
Selenium	77-2	5.79	6.55	14.68	9.01	54.70	ppb
Selenium	78-2	11.89	10.20	8.53	10.21	16.49	ppb
Silicon	28-1	9.74	9.89	10.30	9.97	2.88	ppb
Silver	107-1	2.06	2.07	2.15	2.10	2.29	ppb
Silver	109-1	2.08	2.11	2.14	2.11	1.36	ppb
Sodium	23-2	1088.79	1057.35	1070.50	1072.21	1.47	ppb
Strontium	86-1	1.89	1.97	2.00	1.95	2.75	ppb
Strontium	88-1	1.90	1.92	2.02	1.95	3.48	ppb
Sulfur	34-1	83.21	92.26	235.58	137.02	62.38	ppb
Terbium	159-1				100		%
Terbium	159-2				103		%
Thallium	203-1	1.92	1.95	2.01	1.96	2.23	ppb
Thallium	205-1	1.93	1.99	2.00	1.97	1.97	ppb
Tin	118-1	10.38	10.20	10.48	10.36	1.35	ppb
Titanium	47-1	10.44	10.53	10.82	10.60	1.85	ppb
Uranium	238-1	1.89	1.88	1.96	1.91	2.38	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.35	10.22	10.21	10.26	0.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				106		%
Zinc	66-2	11.54	10.74	11.01	11.10	3.67	ppb
Zirconium	90-1	2.00	2.03	2.14	2.06	3.74	ppb
Zirconium	91-1	1.97	2.05	2.04	2.02	2.08	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.92	-0.73	-0.55	-0.73		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	51.00	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	0.02	0.03	0.02	0.02	9.01	ppb
Barium	137-1	0.02	0.02	0.03	0.02	28.27	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.01	0.02	0.02	25.77	ppb
Cadmium	106-1	-0.09	0.36	-0.18	0.03	1002.44	ppb
Cadmium	111-1	-0.01	0.01	-0.01	0.00		ppb
Calcium	43-1	0.00	-0.57	-0.36	-0.31		ppb
Calcium	44-1	0.58	0.22	0.45	0.42	42.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.01	0.00	-0.01		ppb
Cobalt	59-2	0.00	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.10	-0.18	-0.12	-0.14		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	54-2	0.20	-0.26	0.15	0.03	826.15	ppb
Iron	56-2	0.02	-0.01	-0.01	0.00		ppb
Iron	57-2	0.47	0.38	-0.38	0.15	304.20	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.02	0.01	0.01	28.75	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.01	0.01	0.01	33.34	ppb
Lead	208-1	0.01	0.01	0.01	0.01	15.88	ppb
Lithium	6-1				103		%
Magnesium	24-2	-0.35	-0.28	-0.50	-0.37		ppb
Manganese	55-2	-0.01	0.00	0.00	0.00		ppb
Molybdenum	94-1	0.00	0.00	0.01	0.00	236.25	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	41.60	ppb
Molybdenum	96-1	0.00	0.00	0.01	0.00	155.55	ppb
Molybdenum	97-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	114.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.11	0.06	-0.04		ppb
Phosphorus	31-2	-17.84	-17.26	-18.21	-17.77		ppb
Potassium	39-2	7.32	9.51	8.33	8.39	13.03	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	-0.17	0.00	0.04	-0.04		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.09	-0.31	-0.31	-0.24		ppb
Silicon	28-1	-0.58	-0.45	-0.47	-0.50		ppb
Silver	107-1	0.01	0.01	0.01	0.01	21.05	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.30	ppb
Sodium	23-2	8.48	8.22	8.52	8.41	1.97	ppb
Strontium	86-1	-0.02	0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	97.10	ppb
Sulfur	34-1	-206.66	-178.93	-216.19	-200.59		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	19.86	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	31.88	ppb
Tin	118-1	0.00	0.01	0.00	0.01	74.50	ppb
Titanium	47-1	0.01	-0.01	0.00	0.00	2897.26	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	240.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	0.08	-0.04	0.14	0.06	143.46	ppb
Zirconium	90-1	0.00	0.00	0.01	0.00	80.17	ppb
Zirconium	91-1	-0.01	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	45.41	43.38	39.11	42.64	7.53	ppb
Antimony	121-1	3.91	3.95	4.02	3.96	1.48	ppb
Arsenic	75-2	2.06	2.40	2.35	2.27	7.98	ppb
Barium	135-1	19.70	19.93	20.48	20.04	2.00	ppb
Barium	137-1	19.81	20.51	20.32	20.21	1.79	ppb
Beryllium	9-1	2.06	2.05	2.05	2.05	0.47	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.89	2.20	2.00	2.03	7.69	ppb
Cadmium	106-1	2.18	1.06	2.33	1.86	37.28	ppb
Cadmium	111-1	2.06	2.06	2.09	2.07	0.78	ppb
Calcium	43-1	985.93	998.59	1009.12	997.88	1.16	ppb
Calcium	44-1	984.19	1010.06	1000.46	998.23	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.32	3.95	3.96	4.08	5.20	ppb
Cobalt	59-2	2.25	2.12	2.13	2.17	3.37	ppb
Copper	63-2	5.06	4.68	4.77	4.84	4.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				104		%
Indium	115-2				101		%
Iron	54-2	470.08	450.41	436.24	452.24	3.76	ppb
Iron	56-2	465.75	444.20	438.47	449.47	3.20	ppb
Iron	57-2	463.19	436.90	436.49	445.52	3.43	ppb
Krypton	83-1						cps
Lead	206-1	2.01	2.07	1.99	2.03	2.10	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.02	2.04	1.98	2.01	1.42	ppb
Lead	208-1	1.97	2.02	1.99	1.99	1.25	ppb
Lithium	6-1				104		%
Magnesium	24-2	1186.26	1123.88	1111.62	1140.59	3.51	ppb
Manganese	55-2	2.15	2.14	2.11	2.13	0.89	ppb
Molybdenum	94-1	11.66	11.65	11.62	11.64	0.15	ppb
Molybdenum	95-1	9.92	9.80	9.60	9.77	1.66	ppb
Molybdenum	96-1	9.87	9.99	9.72	9.86	1.37	ppb
Molybdenum	97-1	9.83	9.86	9.80	9.83	0.31	ppb
Molybdenum	98-1	9.75	9.78	9.58	9.70	1.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.22	2.15	1.98	2.11	5.81	ppb
Phosphorus	31-2	37.28	33.00	37.38	35.88	6.96	ppb
Potassium	39-2	1079.01	1034.96	1008.79	1040.92	3.41	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	10.83	10.49	10.35	10.56	2.32	ppb
Selenium	77-2	9.30	7.51	8.87	8.56	10.91	ppb
Selenium	78-2	10.89	14.17	9.93	11.66	19.05	ppb
Silicon	28-1	9.21	9.75	9.34	9.43	2.97	ppb
Silver	107-1	1.99	2.05	2.06	2.03	1.80	ppb
Silver	109-1	1.99	2.04	2.08	2.04	2.18	ppb
Sodium	23-2	1137.53	1090.74	1081.23	1103.17	2.73	ppb
Strontium	86-1	1.86	1.88	1.85	1.86	0.66	ppb
Strontium	88-1	1.87	1.89	1.86	1.87	0.90	ppb
Sulfur	34-1	-241.13	-110.74	-249.63	-200.50		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	1.88	1.93	1.92	1.91	1.46	ppb
Thallium	205-1	1.87	1.95	1.90	1.91	2.06	ppb
Tin	118-1	9.91	10.03	10.13	10.03	1.13	ppb
Titanium	47-1	10.11	10.32	10.55	10.32	2.14	ppb
Uranium	238-1	1.82	1.90	1.83	1.85	2.11	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.82	10.24	10.15	10.40	3.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	11.47	10.62	10.54	10.88	4.75	ppb
Zirconium	90-1	1.99	2.00	1.95	1.98	1.29	ppb
Zirconium	91-1	1.92	1.98	1.89	1.93	2.27	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.76	-0.47	-0.98	-0.74		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	55.22	ppb
Arsenic	75-2	0.01	-0.01	0.00	0.00	348.38	ppb
Barium	135-1	0.02	0.01	0.04	0.03	54.11	ppb
Barium	137-1	0.02	0.02	0.02	0.02	9.93	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				100		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.00	0.00	0.00	25.94	ppb
Cadmium	106-1	-0.57	-1.29	0.20	-0.55		ppb
Cadmium	111-1	-0.01	-0.03	0.00	-0.01		ppb
Calcium	43-1	-0.09	2.62	-0.44	0.70	240.09	ppb
Calcium	44-1	0.80	0.67	0.52	0.66	20.87	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	-0.01	-0.01	0.00	-0.01		ppb
Copper	63-2	-0.10	-0.09	-0.09	-0.10		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				104		%
Iron	54-2	0.35	-0.24	0.57	0.23	182.95	ppb
Iron	56-2	-0.08	0.01	-0.07	-0.05		ppb
Iron	57-2	0.13	0.22	-0.43	-0.03		ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.00	0.01	0.00	80.16	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.00	0.01	0.01	83.13	ppb
Lead	208-1	0.01	0.01	0.00	0.01	34.76	ppb
Lithium	6-1				103		%
Magnesium	24-2	-0.34	-0.86	-0.58	-0.59		ppb
Manganese	55-2	-0.02	0.02	-0.01	0.00		ppb
Molybdenum	94-1	0.01	0.01	0.01	0.01	1.87	ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	131.01	ppb
Molybdenum	96-1	0.01	0.01	0.00	0.00	71.95	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	129.54	ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	55.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.02	-0.06	-0.02		ppb
Phosphorus	31-2	-19.12	-24.25	-18.10	-20.49		ppb
Potassium	39-2	10.00	7.99	9.69	9.23	11.73	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				104		%
Scandium	45-2				106		%
Selenium	82-1	-0.13	-0.15	0.07	-0.07		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.09	-0.09	0.34	0.05	471.51	ppb
Silicon	28-1	-0.55	-0.35	-0.23	-0.38		ppb
Silver	107-1	0.01	0.01	0.01	0.01	42.29	ppb
Silver	109-1	0.01	0.01	0.01	0.01	18.02	ppb
Sodium	23-2	6.17	6.35	6.49	6.34	2.50	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	38.80	ppb
Sulfur	34-1	-277.22	-265.93	-201.38	-248.18		ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.00	0.01	31.06	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	5.43	ppb
Tin	118-1	0.01	-0.01	0.00	0.00	363.97	ppb
Titanium	47-1	0.00	-0.02	0.00	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	1.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				106		%
Zinc	66-2	-0.06	0.06	-0.05	-0.01		ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	51.80	ppb
Zirconium	91-1	0.00	0.00	-0.01	0.00		ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9769.42	9803.88	9614.37	9729.22	1.04	ppb
Antimony	121-1	507.91	509.57	494.52	504.00	1.64	ppb
Arsenic	75-2	522.02	519.42	494.87	512.10	2.92	ppb
Barium	135-1	2515.41	2515.11	2486.97	2505.83	0.65	ppb
Barium	137-1	2499.27	2526.84	2457.95	2494.69	1.39	ppb
Beryllium	9-1	505.82	502.70	501.37	503.30	0.45	ppb
Bismuth	209-1				94		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	502.23	503.89	496.14	500.75	0.81	ppb
Cadmium	106-1	511.46	515.10	499.79	508.78	1.57	ppb
Cadmium	111-1	521.47	517.19	500.93	513.20	2.11	ppb
Calcium	43-1	49233.89	50960.70	49057.39	49750.66	2.11	ppb
Calcium	44-1	49353.51	50435.65	48261.01	49350.06	2.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	527.79	517.84	512.45	519.36	1.50	ppb
Cobalt	59-2	524.65	524.14	503.57	517.45	2.32	ppb
Copper	63-2	5232.01	5203.93	5164.02	5199.99	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	27407.37	26926.63	26627.68	26987.23	1.46	ppb
Iron	56-2	26246.54	26330.21	25653.14	26076.63	1.42	ppb
Iron	57-2	26475.28	26691.66	26592.05	26586.33	0.41	ppb
Krypton	83-1						cps
Lead	206-1	2494.08	2547.39	2448.44	2496.64	1.98	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2483.26	2501.94	2452.83	2479.34	1.00	ppb
Lead	208-1	2491.55	2502.21	2439.67	2477.81	1.35	ppb
Lithium	6-1				96		%
Magnesium	24-2	56376.43	56056.27	55516.44	55983.05	0.78	ppb
Manganese	55-2	5160.49	5136.84	4981.75	5093.03	1.91	ppb
Molybdenum	94-1	5099.23	5101.68	4852.47	5017.80	2.85	ppb
Molybdenum	95-1	5155.72	5111.95	4852.45	5040.04	3.25	ppb
Molybdenum	96-1	5112.64	5106.02	4883.39	5034.02	2.59	ppb
Molybdenum	97-1	5070.11	5105.28	4938.74	5038.04	1.74	ppb
Molybdenum	98-1	5051.98	5120.75	4927.47	5033.40	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.12	497.88	491.30	495.76	0.78	ppb
Phosphorus	31-2	10049.00	10165.01	9818.42	10010.81	1.76	ppb
Potassium	39-2	25188.14	25140.43	24806.78	25045.12	0.83	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	514.70	514.68	494.70	508.03	2.27	ppb
Selenium	77-2	512.72	478.01	526.05	505.59	4.91	ppb
Selenium	78-2	549.75	516.71	496.76	521.07	5.14	ppb
Silicon	28-1	567.33	569.89	544.36	560.53	2.51	ppb
Silver	107-1	515.94	510.88	503.76	510.19	1.20	ppb
Silver	109-1	510.36	506.68	500.73	505.92	0.96	ppb
Sodium	23-2	52753.33	52551.04	51931.09	52411.82	0.82	ppb
Strontium	86-1	507.94	520.44	503.23	510.54	1.74	ppb
Strontium	88-1	513.83	510.05	494.51	506.13	2.02	ppb
Sulfur	34-1	9883.43	10156.68	9555.49	9865.20	3.05	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	497.02	498.69	484.03	493.25	1.63	ppb
Thallium	205-1	498.03	505.02	485.36	496.14	2.01	ppb
Tin	118-1	506.68	515.17	492.76	504.87	2.24	ppb
Titanium	47-1	4974.23	5023.93	4828.91	4942.36	2.05	ppb
Uranium	238-1	491.71	487.14	477.87	485.58	1.45	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	517.33	509.89	499.18	508.80	1.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	5149.43	5178.77	5115.25	5147.82	0.62	ppb
Zirconium	90-1	509.16	507.17	490.42	502.25	2.05	ppb
Zirconium	91-1	514.05	512.00	480.99	502.35	3.69	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.39	-0.09	-0.46	-0.31		ppb
Antimony	121-1	0.10	0.08	0.07	0.08	13.52	ppb
Arsenic	75-2	0.00	0.01	0.03	0.01	77.94	ppb
Barium	135-1	0.12	0.10	0.08	0.10	21.35	ppb
Barium	137-1	0.11	0.05	0.06	0.08	38.25	ppb
Beryllium	9-1	0.08	0.05	0.05	0.06	26.77	ppb
Bismuth	209-1				92		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.02	0.07	0.06	54.04	ppb
Cadmium	106-1	-0.70	-1.35	-1.03	-1.02		ppb
Cadmium	111-1	0.02	-0.01	-0.02	0.00	3200.80	ppb
Calcium	43-1	5.42	2.00	2.27	3.23	58.82	ppb
Calcium	44-1	5.74	2.45	2.04	3.41	59.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.02	0.01	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	30.93	ppb
Copper	63-2	0.12	0.15	0.14	0.14	9.75	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				102		%
Indium	115-1				94		%
Indium	115-2				102		%
Iron	54-2	0.85	1.02	1.14	1.00	14.69	ppb
Iron	56-2	0.63	0.57	0.72	0.64	11.79	ppb
Iron	57-2	0.57	0.57	0.82	0.66	21.64	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.15	0.12	0.16	26.26	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.14	0.12	0.16	33.65	ppb
Lead	208-1	0.22	0.15	0.13	0.17	30.85	ppb
Lithium	6-1				92		%
Magnesium	24-2	0.44	0.08	0.32	0.28	66.49	ppb
Manganese	55-2	0.21	0.18	0.19	0.19	8.48	ppb
Molybdenum	94-1	0.32	0.20	0.17	0.23	34.45	ppb
Molybdenum	95-1	0.31	0.21	0.21	0.25	23.38	ppb
Molybdenum	96-1	0.30	0.20	0.20	0.23	23.28	ppb
Molybdenum	97-1	0.36	0.20	0.19	0.25	38.52	ppb
Molybdenum	98-1	0.34	0.21	0.20	0.25	31.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.00	0.05	0.02	99.02	ppb
Phosphorus	31-2	-20.92	-16.86	-12.41	-16.73		ppb
Potassium	39-2	15.73	15.10	14.64	15.16	3.61	ppb
Rhodium	103-1				96		%
Rhodium	103-2				103		%
Scandium	45-1				95		%
Scandium	45-2				103		%
Selenium	82-1	0.35	-0.12	-0.16	0.02	1221.50	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.09	-0.09	-0.09	-0.09		ppb
Silicon	28-1	4.02	0.76	0.12	1.63	128.20	ppb
Silver	107-1	0.08	0.05	0.04	0.06	35.78	ppb
Silver	109-1	0.08	0.06	0.05	0.06	29.79	ppb
Sodium	23-2	16.13	15.33	15.99	15.81	2.71	ppb
Strontium	86-1	0.04	0.02	0.00	0.02	113.01	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	42.32	ppb
Sulfur	34-1	613.55	-525.59	-751.05	-221.03		ppb
Terbium	159-1				93		%
Terbium	159-2				102		%
Thallium	203-1	0.05	0.03	0.03	0.04	32.66	ppb
Thallium	205-1	0.05	0.03	0.03	0.04	24.03	ppb
Tin	118-1	0.06	0.02	0.03	0.03	52.80	ppb
Titanium	47-1	0.21	0.14	0.11	0.15	33.52	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	37.64	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	8.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				105		%
Zinc	66-2	0.28	0.25	0.20	0.25	16.20	ppb
Zirconium	90-1	0.03	0.02	0.01	0.02	44.05	ppb
Zirconium	91-1	0.02	0.01	0.00	0.01	88.65	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9813.06	8330.99	8904.95	9016.34	8.29	ppb
Antimony	121-1	527.38	513.32	508.18	516.29	1.92	ppb
Arsenic	75-2	506.35	436.69	465.43	469.49	7.46	ppb
Barium	135-1	2607.10	2541.06	2490.66	2546.27	2.29	ppb
Barium	137-1	2605.14	2596.11	2448.57	2549.94	3.45	ppb
Beryllium	9-1	510.90	514.63	502.12	509.22	1.26	ppb
Bismuth	209-1				94		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	524.95	507.40	504.04	512.13	2.19	ppb
Cadmium	106-1	522.40	512.85	506.60	513.95	1.55	ppb
Cadmium	111-1	530.35	526.32	510.22	522.30	2.04	ppb
Calcium	43-1	51194.29	50942.54	49807.40	50648.07	1.46	ppb
Calcium	44-1	50988.24	51023.41	49637.10	50549.58	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	523.16	432.27	462.11	472.52	9.81	ppb
Cobalt	59-2	533.42	450.65	484.48	489.52	8.50	ppb
Copper	63-2	5234.36	4442.96	4744.28	4807.20	8.31	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				100		%
Holmium	165-2				110		%
Indium	115-1				97		%
Indium	115-2				106		%
Iron	54-2	27200.60	22951.07	24047.33	24733.00	8.92	ppb
Iron	56-2	26613.07	22701.52	24076.61	24463.73	8.11	ppb
Iron	57-2	26446.75	22698.38	24310.91	24485.35	7.68	ppb
Krypton	83-1						cps
Lead	206-1	2549.53	2583.35	2515.46	2549.45	1.33	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2538.20	2550.69	2487.07	2525.32	1.33	ppb
Lead	208-1	2526.96	2534.36	2486.23	2515.85	1.03	ppb
Lithium	6-1				95		%
Magnesium	24-2	55384.58	47609.47	51224.06	51406.04	7.57	ppb
Manganese	55-2	5200.65	4456.47	4683.15	4780.09	7.98	ppb
Molybdenum	94-1	5110.87	5057.09	5006.36	5058.11	1.03	ppb
Molybdenum	95-1	5048.54	5039.05	5095.10	5060.90	0.59	ppb
Molybdenum	96-1	5058.94	4962.44	5074.43	5031.94	1.21	ppb
Molybdenum	97-1	5024.40	4993.83	5079.67	5032.64	0.86	ppb
Molybdenum	98-1	5063.71	5087.89	5041.42	5064.34	0.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	499.71	430.70	453.86	461.42	7.61	ppb
Phosphorus	31-2	10512.63	8828.58	9462.63	9601.28	8.86	ppb
Potassium	39-2	25012.94	21500.79	22649.47	23054.40	7.77	ppb
Rhodium	103-1				94		%
Rhodium	103-2				103		%
Scandium	45-1				100		%
Scandium	45-2				111		%
Selenium	82-1	516.73	513.45	515.07	515.08	0.32	ppb
Selenium	77-2	510.76	414.41	488.90	471.35	10.72	ppb
Selenium	78-2	499.80	436.48	443.84	460.04	7.53	ppb
Silicon	28-1	663.48	669.51	652.33	661.77	1.32	ppb
Silver	107-1	521.45	510.90	505.84	512.73	1.55	ppb
Silver	109-1	528.42	510.11	511.83	516.79	1.96	ppb
Sodium	23-2	52568.55	44641.56	47452.07	48220.73	8.33	ppb
Strontium	86-1	515.61	516.61	511.44	514.55	0.53	ppb
Strontium	88-1	504.26	499.57	505.36	503.07	0.61	ppb
Sulfur	34-1	10427.79	10400.52	10418.46	10415.59	0.13	ppb
Terbium	159-1				99		%
Terbium	159-2				109		%
Thallium	203-1	498.46	507.67	500.58	502.23	0.96	ppb
Thallium	205-1	507.30	505.32	503.05	505.22	0.42	ppb
Tin	118-1	530.51	512.05	508.47	517.01	2.29	ppb
Titanium	47-1	5081.67	5102.58	4974.54	5052.93	1.36	ppb
Uranium	238-1	492.34	493.04	482.07	489.15	1.26	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	513.88	435.86	466.49	472.08	8.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				112		%
Zinc	66-2	5277.64	4473.89	4827.03	4859.52	8.29	ppb
Zirconium	90-1	509.58	510.16	506.36	508.70	0.40	ppb
Zirconium	91-1	509.81	500.05	501.35	503.73	1.05	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.48	-0.40	-0.67	-0.51		ppb
Antimony	121-1	0.09	0.08	0.08	0.08	6.46	ppb
Arsenic	75-2	0.03	-0.01	0.02	0.01	155.92	ppb
Barium	135-1	0.06	0.06	0.05	0.06	15.24	ppb
Barium	137-1	0.05	0.05	0.06	0.06	8.22	ppb
Beryllium	9-1	0.07	0.07	0.07	0.07	2.90	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	0.04	0.04	35.18	ppb
Cadmium	106-1	-0.42	-0.15	-0.74	-0.44		ppb
Cadmium	111-1	0.01	0.01	0.00	0.01	90.85	ppb
Calcium	43-1	2.76	2.76	2.78	2.76	0.42	ppb
Calcium	44-1	2.07	2.52	1.87	2.15	15.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	0.00	0.00		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	36.16	ppb
Copper	63-2	0.13	0.10	0.08	0.10	26.11	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				102		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	54-2	0.62	0.83	0.76	0.74	14.70	ppb
Iron	56-2	0.59	0.61	0.54	0.58	5.93	ppb
Iron	57-2	0.86	0.03	0.74	0.54	83.19	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.17	0.15	0.16	6.11	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.17	0.13	0.15	11.23	ppb
Lead	208-1	0.16	0.16	0.15	0.16	5.00	ppb
Lithium	6-1				97		%
Magnesium	24-2	0.20	0.09	0.10	0.13	46.88	ppb
Manganese	55-2	0.18	0.19	0.24	0.20	17.13	ppb
Molybdenum	94-1	0.19	0.16	0.19	0.18	8.88	ppb
Molybdenum	95-1	0.18	0.17	0.20	0.18	7.97	ppb
Molybdenum	96-1	0.19	0.19	0.19	0.19	1.73	ppb
Molybdenum	97-1	0.18	0.20	0.18	0.19	5.82	ppb
Molybdenum	98-1	0.18	0.19	0.18	0.19	1.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.01	-0.03	0.00		ppb
Phosphorus	31-2	-23.63	-15.82	-20.52	-19.99		ppb
Potassium	39-2	18.26	16.10	16.34	16.90	6.99	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	-0.02	0.01	-0.02	-0.01		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.31	-0.08	-0.31	-0.23		ppb
Silicon	28-1	0.05	0.40	0.01	0.15	142.65	ppb
Silver	107-1	0.07	0.05	0.04	0.05	24.82	ppb
Silver	109-1	0.06	0.05	0.04	0.05	17.08	ppb
Sodium	23-2	19.91	21.51	18.62	20.01	7.23	ppb
Strontium	86-1	-0.01	0.00	0.00	0.00		ppb
Strontium	88-1	0.01	0.01	0.01	0.01	11.41	ppb
Sulfur	34-1	-799.92	-504.51	-631.75	-645.39		ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.03	0.03	0.03	0.03	7.15	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.66	ppb
Tin	118-1	0.03	0.04	0.03	0.03	13.50	ppb
Titanium	47-1	0.11	0.13	0.11	0.12	13.41	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	18.52	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	11.02	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	0.24	0.32	0.49	0.35	36.03	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	15.93	ppb
Zirconium	91-1	0.01	0.01	0.02	0.01	52.45	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9618.42	9455.83	9601.03	9558.43	0.93	ppb
Antimony	121-1	494.10	503.33	500.40	499.28	0.94	ppb
Arsenic	75-2	504.71	513.20	506.87	508.26	0.87	ppb
Barium	135-1	2461.61	2498.11	2470.82	2476.85	0.77	ppb
Barium	137-1	2443.48	2534.42	2528.04	2501.98	2.03	ppb
Beryllium	9-1	495.15	504.33	502.15	500.54	0.96	ppb
Bismuth	209-1				93		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	493.74	510.17	497.79	500.57	1.71	ppb
Cadmium	106-1	495.32	505.33	498.57	499.74	1.02	ppb
Cadmium	111-1	508.26	516.98	501.67	508.97	1.51	ppb
Calcium	43-1	49447.75	47771.13	49959.05	49059.31	2.33	ppb
Calcium	44-1	49571.82	48818.41	50261.55	49550.59	1.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.90	507.29	508.28	509.49	0.59	ppb
Cobalt	59-2	522.22	512.98	509.22	514.81	1.30	ppb
Copper	63-2	5119.41	5133.37	5114.16	5122.32	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	26201.11	26366.14	26741.33	26436.19	1.05	ppb
Iron	56-2	26267.02	25606.00	25866.19	25913.07	1.29	ppb
Iron	57-2	26570.10	26061.13	26031.75	26220.99	1.15	ppb
Krypton	83-1						cps
Lead	206-1	2490.47	2480.81	2501.02	2490.77	0.41	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2475.57	2497.37	2505.92	2492.95	0.63	ppb
Lead	208-1	2473.70	2493.53	2486.82	2484.68	0.41	ppb
Lithium	6-1				93		%
Magnesium	24-2	55033.27	55701.49	54783.94	55172.90	0.86	ppb
Manganese	55-2	5099.06	4993.69	4994.62	5029.12	1.20	ppb
Molybdenum	94-1	4997.42	4930.38	4992.70	4973.50	0.75	ppb
Molybdenum	95-1	4953.23	4930.14	4964.15	4949.17	0.35	ppb
Molybdenum	96-1	4902.04	4910.39	4950.89	4921.11	0.53	ppb
Molybdenum	97-1	4946.07	4863.82	5004.51	4938.14	1.43	ppb
Molybdenum	98-1	4975.28	4895.05	5006.19	4958.84	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.73	489.80	488.27	490.27	0.46	ppb
Phosphorus	31-2	10195.97	9878.38	9812.13	9962.16	2.06	ppb
Potassium	39-2	24863.13	24355.01	24727.70	24648.61	1.07	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	504.15	493.74	504.68	500.86	1.23	ppb
Selenium	77-2	506.19	505.11	530.45	513.92	2.79	ppb
Selenium	78-2	489.12	515.63	510.45	505.07	2.78	ppb
Silicon	28-1	628.73	616.43	631.56	625.58	1.29	ppb
Silver	107-1	500.69	520.21	498.91	506.60	2.33	ppb
Silver	109-1	500.18	517.93	501.44	506.52	1.95	ppb
Sodium	23-2	51914.61	51833.71	51132.76	51627.02	0.83	ppb
Strontium	86-1	496.64	490.50	508.66	498.60	1.85	ppb
Strontium	88-1	490.63	496.97	498.90	495.50	0.87	ppb
Sulfur	34-1	9873.71	9738.31	10061.34	9891.12	1.64	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	490.56	486.55	496.39	491.16	1.01	ppb
Thallium	205-1	495.08	495.93	500.25	497.09	0.56	ppb
Tin	118-1	497.79	502.81	503.25	501.28	0.61	ppb
Titanium	47-1	4972.89	4875.52	5015.06	4954.49	1.44	ppb
Uranium	238-1	487.00	496.08	485.37	489.48	1.18	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.22	504.09	497.49	500.60	0.66	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	5177.95	5112.11	5077.25	5122.44	1.00	ppb
Zirconium	90-1	498.52	491.71	496.54	495.59	0.71	ppb
Zirconium	91-1	494.15	499.74	489.07	494.32	1.08	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49564.55	50957.14	50153.61	50225.10	1.39	ppb
Antimony	121-1	474.16	476.49	469.92	473.52	0.70	ppb
Arsenic	75-2	479.25	478.94	482.60	480.26	0.42	ppb
Barium	135-1	2411.58	2426.49	2428.79	2422.29	0.39	ppb
Barium	137-1	2430.13	2442.61	2415.44	2429.40	0.56	ppb
Beryllium	9-1	505.59	496.84	499.90	500.78	0.89	ppb
Bismuth	209-1				83		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	467.14	468.53	461.84	465.84	0.76	ppb
Cadmium	106-1	467.75	471.95	469.17	469.62	0.45	ppb
Cadmium	111-1	465.55	472.25	469.34	469.05	0.72	ppb
Calcium	43-1	243854.69	242204.42	245048.98	243702.70	0.59	ppb
Calcium	44-1	243780.40	247245.59	248206.87	246410.96	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	498.32	496.68	498.29	497.76	0.19	ppb
Cobalt	59-2	483.05	492.84	491.45	489.11	1.08	ppb
Copper	63-2	4700.04	4829.36	4783.98	4771.13	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				95		%
Holmium	165-2				95		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	126101.85	129028.17	128903.83	128011.28	1.29	ppb
Iron	56-2	125058.91	128549.93	127056.39	126888.41	1.38	ppb
Iron	57-2	126461.23	127172.36	127537.75	127057.11	0.43	ppb
Krypton	83-1						cps
Lead	206-1	2559.05	2549.85	2557.73	2555.54	0.19	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2531.87	2536.21	2552.00	2540.03	0.42	ppb
Lead	208-1	2543.09	2525.01	2540.73	2536.28	0.39	ppb
Lithium	6-1				87		%
Magnesium	24-2	269068.74	276064.54	273108.02	272747.10	1.29	ppb
Manganese	55-2	4783.19	5029.84	5005.36	4939.47	2.75	ppb
Molybdenum	94-1	4947.69	4933.77	4999.68	4960.38	0.70	ppb
Molybdenum	95-1	4888.32	4909.23	5014.46	4937.34	1.37	ppb
Molybdenum	96-1	4886.96	4907.23	4957.83	4917.34	0.74	ppb
Molybdenum	97-1	4902.41	4942.11	4979.07	4941.20	0.78	ppb
Molybdenum	98-1	4932.42	4944.76	4986.34	4954.51	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	449.76	461.31	459.54	456.87	1.36	ppb
Phosphorus	31-2	9672.25	10012.60	9727.44	9804.10	1.86	ppb
Potassium	39-2	122995.62	125117.96	123842.45	123985.35	0.86	ppb
Rhodium	103-1				85		%
Rhodium	103-2				84		%
Scandium	45-1				94		%
Scandium	45-2				97		%
Selenium	82-1	472.16	472.67	476.53	473.79	0.50	ppb
Selenium	77-2	493.40	463.11	459.99	472.17	3.91	ppb
Selenium	78-2	473.28	457.17	479.59	470.01	2.46	ppb
Silicon	28-1	889.12	880.93	895.04	888.36	0.80	ppb
Silver	107-1	458.37	459.94	460.92	459.74	0.28	ppb
Silver	109-1	453.56	462.93	460.24	458.91	1.05	ppb
Sodium	23-2	257767.89	260506.33	257886.77	258720.33	0.60	ppb
Strontium	86-1	500.73	499.15	498.44	499.44	0.23	ppb
Strontium	88-1	490.74	494.17	497.22	494.05	0.66	ppb
Sulfur	34-1	9721.53	9792.31	9923.99	9812.61	1.05	ppb
Terbium	159-1				95		%
Terbium	159-2				94		%
Thallium	203-1	505.97	511.05	505.83	507.62	0.59	ppb
Thallium	205-1	513.77	510.35	503.72	509.28	1.00	ppb
Tin	118-1	472.28	489.99	478.41	480.23	1.87	ppb
Titanium	47-1	4959.71	4899.95	4945.98	4935.21	0.63	ppb
Uranium	238-1	519.27	517.98	522.11	519.78	0.41	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	485.44	495.34	492.29	491.02	1.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	4687.75	4783.58	4740.98	4737.44	1.01	ppb
Zirconium	90-1	501.71	500.92	510.92	504.52	1.10	ppb
Zirconium	91-1	495.83	499.02	512.51	502.45	1.76	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.61	0.17	-0.16	0.21	187.59	ppb
Antimony	121-1	0.17	0.13	0.12	0.14	18.46	ppb
Arsenic	75-2	0.02	-0.01	0.03	0.01	154.06	ppb
Barium	135-1	0.27	0.20	0.11	0.19	41.75	ppb
Barium	137-1	0.27	0.19	0.10	0.19	45.63	ppb
Beryllium	9-1	0.15	0.13	0.12	0.13	12.49	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.06	0.02	0.07	64.81	ppb
Cadmium	106-1	-0.95	-0.43	-1.01	-0.80		ppb
Cadmium	111-1	0.04	0.03	0.01	0.03	66.34	ppb
Calcium	43-1	19.96	14.90	9.12	14.66	37.02	ppb
Calcium	44-1	20.76	13.96	8.25	14.32	43.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.02	0.01	0.02	61.55	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	25.77	ppb
Copper	63-2	0.13	0.06	0.05	0.08	54.43	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				100		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	54-2	2.88	1.92	2.53	2.44	20.00	ppb
Iron	56-2	2.71	2.20	1.90	2.27	18.19	ppb
Iron	57-2	2.98	2.38	1.34	2.24	37.05	ppb
Krypton	83-1						cps
Lead	206-1	0.45	0.36	0.28	0.36	24.47	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.46	0.35	0.27	0.36	26.16	ppb
Lead	208-1	0.46	0.35	0.27	0.36	25.93	ppb
Lithium	6-1				96		%
Magnesium	24-2	4.07	2.53	2.08	2.89	36.01	ppb
Manganese	55-2	0.18	0.14	0.14	0.16	13.57	ppb
Molybdenum	94-1	0.70	0.47	0.36	0.51	34.50	ppb
Molybdenum	95-1	0.62	0.46	0.33	0.47	30.65	ppb
Molybdenum	96-1	0.63	0.47	0.32	0.48	32.54	ppb
Molybdenum	97-1	0.64	0.46	0.32	0.47	33.76	ppb
Molybdenum	98-1	0.61	0.44	0.32	0.46	31.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	0.03	0.01	127.43	ppb
Phosphorus	31-2	-9.50	-17.22	-22.56	-16.42		ppb
Potassium	39-2	22.47	21.94	19.42	21.28	7.65	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	0.41	0.05	0.10	0.18	105.47	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.08	0.60	-0.31	0.07	690.41	ppb
Silicon	28-1	0.25	0.25	0.31	0.27	13.14	ppb
Silver	107-1	0.11	0.08	0.06	0.08	33.24	ppb
Silver	109-1	0.11	0.09	0.06	0.09	27.73	ppb
Sodium	23-2	39.87	37.26	35.71	37.62	5.60	ppb
Strontium	86-1	0.03	0.04	0.01	0.03	54.59	ppb
Strontium	88-1	0.05	0.03	0.02	0.04	44.21	ppb
Sulfur	34-1	-995.15	-949.44	-863.29	-935.96		ppb
Terbium	159-1				100		%
Terbium	159-2				99		%
Thallium	203-1	0.07	0.06	0.04	0.06	23.11	ppb
Thallium	205-1	0.08	0.06	0.05	0.06	27.06	ppb
Tin	118-1	0.07	0.05	0.04	0.05	34.51	ppb
Titanium	47-1	0.51	0.37	0.22	0.36	40.00	ppb
Uranium	238-1	0.05	0.03	0.02	0.03	44.48	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	36.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	0.20	0.26	0.15	0.20	26.77	ppb
Zirconium	90-1	0.10	0.07	0.04	0.07	36.10	ppb
Zirconium	91-1	0.09	0.06	0.03	0.06	43.69	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.56	-1.03	-0.43	-0.67		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	15.10	ppb
Arsenic	75-2	0.02	-0.01	-0.01	0.00	9561.10	ppb
Barium	135-1	0.08	0.07	0.07	0.07	8.59	ppb
Barium	137-1	0.08	0.07	0.07	0.07	12.53	ppb
Beryllium	9-1	0.01	0.00	0.01	0.01	51.24	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.05	-0.01	0.04	0.03	106.36	ppb
Cadmium	106-1	-0.14	-0.30	-0.50	-0.31		ppb
Cadmium	111-1	-0.01	-0.01	-0.02	-0.01		ppb
Calcium	43-1	1.09	1.44	2.00	1.51	30.22	ppb
Calcium	44-1	1.43	1.39	1.22	1.34	8.36	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	526.76	ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	2028.10	ppb
Copper	63-2	-0.17	-0.15	-0.19	-0.17		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				95		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	54-2	0.27	0.35	0.38	0.33	17.59	ppb
Iron	56-2	0.01	-0.06	0.01	-0.01		ppb
Iron	57-2	-0.22	0.23	-0.40	-0.13		ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.01	0.01	0.01	13.77	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.00	0.00	0.00	196.87	ppb
Lead	208-1	0.01	0.01	0.01	0.01	13.43	ppb
Lithium	6-1				95		%
Magnesium	24-2	-0.71	-1.04	-0.88	-0.88		ppb
Manganese	55-2	0.04	0.05	0.03	0.04	26.61	ppb
Molybdenum	94-1	0.01	0.02	0.01	0.01	53.16	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	16.89	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	17.01	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	20.42	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	24.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.01	-0.04	-0.02		ppb
Phosphorus	31-2	-20.92	-13.18	-16.64	-16.91		ppb
Potassium	39-2	11.94	10.51	8.61	10.35	16.12	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	-0.19	-0.19	-0.07	-0.15		ppb
Selenium	77-2	0.79	0.00	0.00	0.26	173.21	ppb
Selenium	78-2	0.17	-0.31	0.18	0.01	2448.19	ppb
Silicon	28-1	-0.22	-0.32	-0.50	-0.35		ppb
Silver	107-1	0.00	0.00	0.00	0.00	68.46	ppb
Silver	109-1	0.00	0.00	0.00	0.00	229.60	ppb
Sodium	23-2	9.32	9.97	9.43	9.57	3.66	ppb
Strontium	86-1	-0.01	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	71.14	ppb
Sulfur	34-1	238.83	204.12	129.40	190.78	29.31	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	0.00	0.00	0.00	0.00	230.37	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	115.55	ppb
Tin	118-1	0.00	0.00	0.00	0.00	530.35	ppb
Titanium	47-1	0.01	0.01	0.01	0.01	26.27	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	251.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				96		%
Zinc	66-2	0.14	0.12	0.08	0.12	27.87	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	74.22	ppb
Zirconium	91-1	0.00	0.01	-0.01	0.00		ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9791.10	9781.51	9668.90	9747.17	0.70	ppb
Antimony	121-1	440.12	482.16	506.57	476.28	7.06	ppb
Arsenic	75-2	506.28	512.34	509.15	509.26	0.60	ppb
Barium	135-1	2196.16	2395.42	2505.71	2365.77	6.63	ppb
Barium	137-1	2189.60	2399.31	2531.38	2373.43	7.26	ppb
Beryllium	9-1	460.09	475.91	495.21	477.07	3.69	ppb
Bismuth	209-1				96		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	449.77	490.85	512.51	484.38	6.58	ppb
Cadmium	106-1	449.85	495.03	513.88	486.25	6.77	ppb
Cadmium	111-1	449.92	499.14	509.06	486.04	6.52	ppb
Calcium	43-1	44457.65	48374.20	49982.32	47604.72	5.97	ppb
Calcium	44-1	44079.40	48256.14	50490.65	47608.73	6.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	515.80	498.42	503.54	505.92	1.77	ppb
Cobalt	59-2	518.44	518.63	514.03	517.04	0.50	ppb
Copper	63-2	5123.83	5200.66	5124.78	5149.76	0.86	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	26361.63	26536.59	26061.82	26320.02	0.91	ppb
Iron	56-2	26378.06	25985.24	25895.28	26086.19	0.98	ppb
Iron	57-2	26631.92	26362.66	26112.51	26369.03	0.99	ppb
Krypton	83-1						cps
Lead	206-1	2247.25	2428.72	2543.68	2406.55	6.21	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2234.93	2411.82	2524.32	2390.36	6.10	ppb
Lead	208-1	2229.02	2406.01	2518.70	2384.58	6.12	ppb
Lithium	6-1				97		%
Magnesium	24-2	55548.30	55877.41	55369.88	55598.53	0.46	ppb
Manganese	55-2	5064.80	4998.52	5003.30	5022.21	0.74	ppb
Molybdenum	94-1	4441.89	4843.14	5018.03	4767.69	6.20	ppb
Molybdenum	95-1	4478.99	4824.26	5006.42	4769.89	5.62	ppb
Molybdenum	96-1	4445.41	4884.99	5009.41	4779.94	6.20	ppb
Molybdenum	97-1	4494.81	4894.90	5019.67	4803.12	5.71	ppb
Molybdenum	98-1	4481.48	4885.36	5043.86	4803.57	6.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	499.51	498.94	494.59	497.68	0.54	ppb
Phosphorus	31-2	10122.12	10210.48	9936.50	10089.70	1.39	ppb
Potassium	39-2	24609.71	24755.62	24864.20	24743.18	0.52	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	457.82	489.11	515.11	487.35	5.89	ppb
Selenium	77-2	487.87	506.41	509.50	501.26	2.33	ppb
Selenium	78-2	525.31	518.16	499.63	514.37	2.58	ppb
Silicon	28-1	579.72	631.09	658.42	623.08	6.41	ppb
Silver	107-1	444.26	487.40	509.50	480.39	6.91	ppb
Silver	109-1	453.45	495.32	502.74	483.84	5.49	ppb
Sodium	23-2	52350.99	51980.94	51485.52	51939.15	0.84	ppb
Strontium	86-1	448.19	491.26	514.75	484.73	6.96	ppb
Strontium	88-1	446.38	489.33	502.36	479.36	6.11	ppb
Sulfur	34-1	8644.43	9822.32	10013.64	9493.47	7.81	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	448.21	484.67	503.78	478.89	5.90	ppb
Thallium	205-1	445.91	477.48	504.70	476.03	6.18	ppb
Tin	118-1	446.07	491.75	502.90	480.24	6.27	ppb
Titanium	47-1	4396.45	4806.01	5090.64	4764.37	7.32	ppb
Uranium	238-1	439.56	470.71	491.58	467.28	5.60	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	498.53	498.23	493.92	496.89	0.52	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	5208.13	5222.32	5153.38	5194.61	0.70	ppb
Zirconium	90-1	446.44	482.79	496.93	475.39	5.48	ppb
Zirconium	91-1	448.69	480.32	498.92	475.98	5.34	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1238.67	1271.29	1286.96	1265.64	1.95	ppb
Antimony	121-1	2.53	2.61	2.68	2.61	2.88	ppb
Arsenic	75-2	5.93	6.13	6.14	6.07	1.99	ppb
Barium	135-1	68.67	69.34	70.71	69.57	1.50	ppb
Barium	137-1	69.68	70.78	71.79	70.75	1.50	ppb
Beryllium	9-1	0.26	0.27	0.26	0.26	2.19	ppb
Bismuth	209-1				85		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	4.69	5.25	5.00	4.98	5.71	ppb
Cadmium	106-1	4.76	4.40	6.03	5.06	16.95	ppb
Cadmium	111-1	3.33	3.42	3.55	3.43	3.27	ppb
Calcium	43-1	12725.20	13232.00	13371.93	13109.71	2.60	ppb
Calcium	44-1	13020.93	13453.56	13810.78	13428.42	2.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11.09	11.21	11.25	11.19	0.77	ppb
Cobalt	59-2	3.45	3.44	3.64	3.51	3.16	ppb
Copper	63-2	150.70	149.49	152.79	150.99	1.10	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				92		%
Indium	115-1				90		%
Indium	115-2				89		%
Iron	54-2	5001.24	4994.52	5048.68	5014.81	0.59	ppb
Iron	56-2	5030.55	4931.96	5067.14	5009.88	1.40	ppb
Iron	57-2	4930.15	4935.15	5056.46	4973.92	1.44	ppb
Krypton	83-1						cps
Lead	206-1	80.91	84.77	84.33	83.34	2.53	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	79.36	82.37	82.14	81.29	2.06	ppb
Lead	208-1	80.59	84.83	83.84	83.08	2.67	ppb
Lithium	6-1				85		%
Magnesium	24-2	3031.09	3021.69	3049.42	3034.07	0.46	ppb
Manganese	55-2	111.40	110.08	111.90	111.13	0.85	ppb
Molybdenum	94-1	39.99	41.99	42.31	41.43	3.03	ppb
Molybdenum	95-1	29.66	30.91	31.43	30.67	2.97	ppb
Molybdenum	96-1	30.66	31.70	31.83	31.40	2.04	ppb
Molybdenum	97-1	30.01	30.89	31.55	30.82	2.50	ppb
Molybdenum	98-1	29.55	31.07	30.83	30.48	2.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.35	9.16	9.46	9.32	1.63	ppb
Phosphorus	31-2	835.08	763.87	830.64	809.86	4.93	ppb
Potassium	39-2	4983.96	5018.63	5052.71	5018.43	0.68	ppb
Rhodium	103-1				86		%
Rhodium	103-2				84		%
Scandium	45-1				94		%
Scandium	45-2				90		%
Selenium	82-1	0.70	0.62	0.44	0.58	23.17	ppb
Selenium	77-2	2.51	6.77	0.85	3.37	90.56	ppb
Selenium	78-2	2.71	1.22	0.20	1.37	91.78	ppb
Silicon	28-1	5948.44	6146.03	6293.37	6129.28	2.82	ppb
Silver	107-1	0.65	0.61	0.61	0.62	4.00	ppb
Silver	109-1	0.66	0.61	0.60	0.62	4.62	ppb
Sodium	23-2	507643.18	504713.42	510433.35	507596.65	0.56	ppb
Strontium	86-1	65.27	67.86	68.11	67.08	2.34	ppb
Strontium	88-1	67.93	68.46	69.95	68.78	1.53	ppb
Sulfur	34-1	10263.54	11241.99	11449.39	10984.98	5.77	ppb
Terbium	159-1				93		%
Terbium	159-2				92		%
Thallium	203-1	0.13	0.18	0.17	0.16	15.23	ppb
Thallium	205-1	0.14	0.18	0.18	0.17	12.90	ppb
Tin	118-1	4.57	4.68	4.78	4.68	2.20	ppb
Titanium	47-1	67.94	71.72	71.92	70.52	3.18	ppb
Uranium	238-1	0.29	0.30	0.29	0.30	1.05	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	11.03	11.09	11.13	11.08	0.45	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	1030.77	1013.10	1036.45	1026.77	1.19	ppb
Zirconium	90-1	8.65	9.02	9.13	8.93	2.79	ppb
Zirconium	91-1	8.48	9.03	8.95	8.82	3.38	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	486.21	587.00	532.22	535.14	9.43	ppb
Antimony	121-1	2.17	2.24	2.32	2.25	3.41	ppb
Arsenic	75-2	1.35	1.56	1.43	1.45	7.10	ppb
Barium	135-1	72.45	74.74	76.86	74.68	2.95	ppb
Barium	137-1	73.92	75.74	77.65	75.77	2.46	ppb
Beryllium	9-1	0.07	0.07	0.07	0.07	1.91	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	3.91	4.16	4.34	4.14	5.25	ppb
Cadmium	106-1	3.63	2.12	3.45	3.07	27.03	ppb
Cadmium	111-1	3.03	3.16	3.11	3.10	2.04	ppb
Calcium	43-1	10731.32	10949.70	10967.06	10882.69	1.21	ppb
Calcium	44-1	10692.47	10963.84	10891.82	10849.37	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.20	8.47	7.74	7.80	8.21	ppb
Cobalt	59-2	7.49	8.48	7.82	7.93	6.37	ppb
Copper	63-2	78.33	90.41	84.86	84.53	7.15	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				98		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	54-2	3278.68	3800.59	3540.98	3540.08	7.37	ppb
Iron	56-2	3320.15	3834.19	3578.10	3577.48	7.18	ppb
Iron	57-2	3258.16	3778.68	3551.38	3529.41	7.39	ppb
Krypton	83-1						cps
Lead	206-1	25.13	25.60	26.03	25.58	1.77	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.58	25.30	24.98	24.95	1.45	ppb
Lead	208-1	24.72	25.14	25.24	25.04	1.10	ppb
Lithium	6-1				91		%
Magnesium	24-2	3033.38	3539.17	3297.15	3289.90	7.69	ppb
Manganese	55-2	65.73	77.29	71.14	71.39	8.11	ppb
Molybdenum	94-1	76.56	76.66	79.10	77.44	1.85	ppb
Molybdenum	95-1	85.85	86.02	89.07	86.98	2.08	ppb
Molybdenum	96-1	84.04	83.91	86.02	84.66	1.40	ppb
Molybdenum	97-1	87.17	86.05	89.20	87.47	1.82	ppb
Molybdenum	98-1	85.17	86.14	88.34	86.55	1.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.09	11.45	10.66	10.73	6.37	ppb
Phosphorus	31-2	1598.27	1886.29	1742.24	1742.27	8.27	ppb
Potassium	39-2	2852.10	3289.79	3109.90	3083.93	7.13	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	0.09	0.26	-0.08	0.09	191.71	ppb
Selenium	77-2	0.00	0.83	0.00	0.28	173.21	ppb
Selenium	78-2	0.12	0.44	1.38	0.64	101.55	ppb
Silicon	28-1	2124.16	2134.39	2160.49	2139.68	0.88	ppb
Silver	107-1	0.15	0.15	0.15	0.15	1.33	ppb
Silver	109-1	0.14	0.15	0.16	0.15	3.94	ppb
Sodium	23-2	50495.06	58916.58	55189.29	54866.98	7.69	ppb
Strontium	86-1	29.31	29.15	29.99	29.48	1.51	ppb
Strontium	88-1	30.02	29.84	30.11	29.99	0.46	ppb
Sulfur	34-1	9333.41	9566.20	9485.22	9461.61	1.25	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	0.05	0.05	0.05	0.05	6.89	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	4.68	ppb
Tin	118-1	3.14	3.19	3.30	3.21	2.62	ppb
Titanium	47-1	26.74	23.11	23.26	24.37	8.43	ppb
Uranium	238-1	0.10	0.11	0.10	0.10	2.52	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.51	2.82	2.55	2.63	6.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	2320.89	2675.07	2495.11	2497.02	7.09	ppb
Zirconium	90-1	3.13	3.13	3.20	3.15	1.29	ppb
Zirconium	91-1	3.12	3.11	3.10	3.11	0.31	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	520.99	508.28	511.60	513.62	1.28	ppb
Antimony	121-1	2.05	2.13	2.06	2.08	2.20	ppb
Arsenic	75-2	1.35	1.60	1.31	1.42	11.22	ppb
Barium	135-1	70.86	71.09	71.95	71.30	0.80	ppb
Barium	137-1	71.83	72.17	71.93	71.98	0.24	ppb
Beryllium	9-1	0.06	0.05	0.06	0.06	4.45	ppb
Bismuth	209-1				95		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	3.69	3.56	3.98	3.74	5.75	ppb
Cadmium	106-1	2.80	1.99	1.85	2.21	23.26	ppb
Cadmium	111-1	3.14	3.02	2.93	3.03	3.45	ppb
Calcium	43-1	10181.84	10251.72	10353.58	10262.38	0.84	ppb
Calcium	44-1	10313.93	10295.32	10355.00	10321.42	0.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.26	7.59	7.31	7.39	2.38	ppb
Cobalt	59-2	7.72	7.58	7.70	7.67	0.99	ppb
Copper	63-2	80.60	80.91	81.99	81.17	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				100		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	54-2	3386.60	3404.03	3425.11	3405.25	0.57	ppb
Iron	56-2	3404.59	3443.15	3430.67	3426.14	0.57	ppb
Iron	57-2	3360.61	3367.89	3383.45	3370.65	0.35	ppb
Krypton	83-1						cps
Lead	206-1	24.42	24.57	24.98	24.66	1.16	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.69	24.10	24.38	24.06	1.44	ppb
Lead	208-1	23.74	24.09	24.37	24.07	1.31	ppb
Lithium	6-1				92		%
Magnesium	24-2	3132.88	3149.83	3158.09	3146.93	0.41	ppb
Manganese	55-2	69.45	68.50	70.25	69.40	1.26	ppb
Molybdenum	94-1	74.15	74.33	72.49	73.66	1.38	ppb
Molybdenum	95-1	82.62	83.24	81.33	82.40	1.19	ppb
Molybdenum	96-1	80.55	80.73	79.88	80.39	0.56	ppb
Molybdenum	97-1	83.02	82.73	82.49	82.75	0.32	ppb
Molybdenum	98-1	82.01	82.59	81.11	81.90	0.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.10	10.31	10.40	10.27	1.52	ppb
Phosphorus	31-2	1611.21	1660.20	1608.05	1626.49	1.80	ppb
Potassium	39-2	2927.53	2950.45	2971.25	2949.74	0.74	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	-0.38	0.32	0.16	0.03	1101.82	ppb
Selenium	77-2	0.75	3.84	2.34	2.31	66.71	ppb
Selenium	78-2	-0.08	-0.08	0.39	0.08	360.56	ppb
Silicon	28-1	1985.89	2021.53	2041.98	2016.47	1.41	ppb
Silver	107-1	0.15	0.14	0.13	0.14	5.80	ppb
Silver	109-1	0.13	0.13	0.13	0.13	3.19	ppb
Sodium	23-2	52906.20	53066.72	52727.34	52900.08	0.32	ppb
Strontium	86-1	28.29	28.64	27.55	28.16	1.97	ppb
Strontium	88-1	28.06	28.18	27.97	28.07	0.36	ppb
Sulfur	34-1	8454.36	8795.19	8725.55	8658.36	2.08	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	0.03	0.03	0.03	0.03	8.45	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	1.58	ppb
Tin	118-1	3.00	2.99	3.05	3.01	1.08	ppb
Titanium	47-1	21.98	22.18	22.36	22.17	0.85	ppb
Uranium	238-1	0.09	0.10	0.10	0.10	2.84	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.54	2.65	2.62	2.61	2.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	2393.05	2385.07	2415.64	2397.92	0.66	ppb
Zirconium	90-1	3.03	3.02	2.95	3.00	1.36	ppb
Zirconium	91-1	2.99	2.97	2.90	2.95	1.56	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	107.54	110.13	115.37	111.02	3.59	ppb
Antimony	121-1	0.45	0.45	0.48	0.46	3.41	ppb
Arsenic	75-2	0.38	0.35	0.25	0.33	21.11	ppb
Barium	135-1	14.74	14.94	15.15	14.94	1.35	ppb
Barium	137-1	14.84	15.09	15.41	15.11	1.90	ppb
Beryllium	9-1	0.03	0.03	0.02	0.03	23.27	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.70	0.63	0.80	0.71	11.54	ppb
Cadmium	106-1	0.36	-0.29	-0.19	-0.04		ppb
Cadmium	111-1	0.61	0.62	0.67	0.63	5.30	ppb
Calcium	43-1	2193.79	2217.69	2276.21	2229.23	1.90	ppb
Calcium	44-1	2228.51	2283.58	2307.88	2273.32	1.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.69	1.60	1.62	1.64	2.86	ppb
Cobalt	59-2	1.66	1.61	1.67	1.64	1.95	ppb
Copper	63-2	17.72	17.57	17.59	17.63	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	733.62	751.05	729.26	737.97	1.56	ppb
Iron	56-2	798.47	756.63	745.28	766.79	3.65	ppb
Iron	57-2	738.47	737.99	724.88	733.78	1.05	ppb
Krypton	83-1						cps
Lead	206-1	5.10	5.18	5.36	5.21	2.54	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.96	5.03	5.17	5.05	2.18	ppb
Lead	208-1	4.98	5.05	5.21	5.08	2.29	ppb
Lithium	6-1				94		%
Magnesium	24-2	675.90	683.46	677.51	678.96	0.59	ppb
Manganese	55-2	14.86	15.05	14.64	14.85	1.36	ppb
Molybdenum	94-1	15.29	15.67	16.05	15.67	2.45	ppb
Molybdenum	95-1	17.03	17.56	17.80	17.46	2.27	ppb
Molybdenum	96-1	16.57	17.18	17.41	17.06	2.54	ppb
Molybdenum	97-1	17.18	17.46	17.90	17.51	2.09	ppb
Molybdenum	98-1	16.92	17.50	17.56	17.32	2.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.16	2.32	2.29	2.26	3.59	ppb
Phosphorus	31-2	321.12	346.69	352.87	340.23	4.95	ppb
Potassium	39-2	645.96	645.04	644.47	645.16	0.12	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	-0.41	-0.35	-0.16	-0.31		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.16	0.16	0.39	0.24	55.30	ppb
Silicon	28-1	426.84	427.42	429.68	427.98	0.35	ppb
Silver	107-1	0.03	0.03	0.04	0.03	12.76	ppb
Silver	109-1	0.03	0.03	0.03	0.03	8.95	ppb
Sodium	23-2	11273.07	11313.13	11280.92	11289.04	0.19	ppb
Strontium	86-1	5.75	6.03	6.25	6.01	4.18	ppb
Strontium	88-1	5.81	5.98	6.09	5.96	2.30	ppb
Sulfur	34-1	1606.27	1733.21	1864.22	1734.56	7.44	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.02	0.02	0.03	0.02	17.03	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	10.42	ppb
Tin	118-1	0.66	0.66	0.68	0.67	2.00	ppb
Titanium	47-1	4.68	4.77	5.08	4.84	4.29	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	4.54	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.54	0.51	0.58	0.54	6.07	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	523.71	527.33	524.25	525.10	0.37	ppb
Zirconium	90-1	0.59	0.64	0.65	0.63	5.38	ppb
Zirconium	91-1	0.57	0.64	0.63	0.61	5.89	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2953.80	2832.72	2791.99	2859.50	2.94	ppb
Antimony	121-1	356.03	380.85	355.93	364.27	3.94	ppb
Arsenic	75-2	377.88	361.48	366.23	368.53	2.29	ppb
Barium	135-1	717.57	748.80	706.76	724.38	3.01	ppb
Barium	137-1	711.13	746.63	714.86	724.20	2.69	ppb
Beryllium	9-1	342.36	363.01	341.63	349.00	3.48	ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	330.46	354.30	337.03	340.60	3.62	ppb
Cadmium	106-1	354.33	380.92	358.80	364.68	3.90	ppb
Cadmium	111-1	350.36	370.30	348.57	356.41	3.39	ppb
Calcium	43-1	19710.45	21010.99	19774.28	20165.24	3.64	ppb
Calcium	44-1	20059.28	20979.00	19670.31	20236.20	3.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	344.39	331.25	326.33	333.99	2.80	ppb
Cobalt	59-2	377.38	359.85	359.04	365.42	2.83	ppb
Copper	63-2	1238.34	1209.01	1185.66	1211.00	2.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				97		%
Iron	54-2	10648.88	10035.57	10016.21	10233.55	3.52	ppb
Iron	56-2	10448.50	9988.77	9739.52	10058.93	3.58	ppb
Iron	57-2	10157.75	9724.72	9581.58	9821.35	3.05	ppb
Krypton	83-1						cps
Lead	206-1	500.53	513.95	502.57	505.68	1.43	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	502.67	520.13	504.09	508.96	1.91	ppb
Lead	208-1	499.30	517.41	499.13	505.28	2.08	ppb
Lithium	6-1				91		%
Magnesium	24-2	14222.90	13527.06	13380.59	13710.18	3.28	ppb
Manganese	55-2	1076.24	989.78	973.92	1013.31	5.43	ppb
Molybdenum	94-1	1337.80	1415.29	1340.97	1364.68	3.21	ppb
Molybdenum	95-1	837.74	887.94	835.76	853.81	3.46	ppb
Molybdenum	96-1	878.43	922.27	894.73	898.47	2.47	ppb
Molybdenum	97-1	839.04	880.93	849.52	856.50	2.54	ppb
Molybdenum	98-1	833.28	890.68	844.38	856.11	3.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	356.82	346.31	340.52	347.89	2.38	ppb
Phosphorus	31-2	1574.54	1487.44	1548.82	1536.93	2.91	ppb
Potassium	39-2	9527.11	8890.85	9147.30	9188.42	3.48	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	356.65	377.76	359.50	364.64	3.14	ppb
Selenium	77-2	370.03	360.58	382.52	371.04	2.97	ppb
Selenium	78-2	393.81	353.15	378.03	375.00	5.47	ppb
Silicon	28-1	1959.92	2063.88	1954.04	1992.62	3.10	ppb
Silver	107-1	0.69	0.71	0.68	0.69	1.97	ppb
Silver	109-1	0.23	0.24	0.23	0.23	2.50	ppb
Sodium	23-2	61147.55	57766.51	56511.92	58475.33	4.10	ppb
Strontium	86-1	354.95	379.06	354.66	362.89	3.86	ppb
Strontium	88-1	349.09	369.85	349.81	356.25	3.31	ppb
Sulfur	34-1	8462.61	8994.94	8257.99	8571.85	4.44	ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	334.67	343.70	341.53	339.97	1.39	ppb
Thallium	205-1	334.78	344.82	332.15	337.25	1.98	ppb
Tin	118-1	127.44	137.38	129.23	131.35	4.04	ppb
Titanium	47-1	520.87	560.43	519.14	533.48	4.38	ppb
Uranium	238-1	340.08	346.31	333.98	340.12	1.81	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	356.36	342.24	338.25	345.62	2.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	3364.85	3160.23	3116.89	3213.99	4.12	ppb
Zirconium	90-1	358.01	378.75	359.31	365.36	3.18	ppb
Zirconium	91-1	357.11	387.27	358.91	367.76	4.60	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2873.26	2852.58	2924.13	2883.32	1.28	ppb
Antimony	121-1	368.74	364.82	368.82	367.46	0.62	ppb
Arsenic	75-2	369.01	366.50	375.45	370.32	1.25	ppb
Barium	135-1	741.68	730.40	753.31	741.79	1.54	ppb
Barium	137-1	723.97	726.32	735.75	728.68	0.86	ppb
Beryllium	9-1	354.59	359.99	362.57	359.05	1.13	ppb
Bismuth	209-1				92		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	346.42	343.17	344.90	344.83	0.47	ppb
Cadmium	106-1	373.18	369.32	378.06	373.52	1.17	ppb
Cadmium	111-1	363.44	361.44	364.52	363.14	0.43	ppb
Calcium	43-1	20432.01	20580.68	20806.01	20606.24	0.91	ppb
Calcium	44-1	20671.05	20749.23	20643.28	20687.86	0.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	335.61	328.29	338.74	334.21	1.60	ppb
Cobalt	59-2	371.62	357.39	374.17	367.73	2.46	ppb
Copper	63-2	1212.73	1195.01	1242.09	1216.61	1.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				100		%
Indium	115-1				95		%
Indium	115-2				96		%
Iron	54-2	10167.54	10008.53	10374.48	10183.52	1.80	ppb
Iron	56-2	9966.09	9788.73	10053.42	9936.08	1.36	ppb
Iron	57-2	9877.03	9641.65	9936.32	9818.34	1.59	ppb
Krypton	83-1						cps
Lead	206-1	519.23	522.23	517.65	519.70	0.45	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	522.74	522.41	516.28	520.48	0.70	ppb
Lead	208-1	517.44	515.80	513.76	515.67	0.36	ppb
Lithium	6-1				90		%
Magnesium	24-2	14011.55	13671.73	13954.09	13879.12	1.31	ppb
Manganese	55-2	1030.23	986.42	1029.48	1015.37	2.47	ppb
Molybdenum	94-1	1382.17	1373.61	1383.31	1379.69	0.38	ppb
Molybdenum	95-1	866.69	872.60	870.24	869.84	0.34	ppb
Molybdenum	96-1	921.70	922.10	919.97	921.26	0.12	ppb
Molybdenum	97-1	869.06	867.13	865.54	867.24	0.20	ppb
Molybdenum	98-1	872.35	867.20	866.75	868.77	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	348.71	344.31	355.60	349.54	1.63	ppb
Phosphorus	31-2	1543.57	1603.75	1475.29	1540.87	4.17	ppb
Potassium	39-2	9186.18	8987.62	9406.14	9193.31	2.28	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				99		%
Selenium	82-1	370.98	368.79	371.08	370.28	0.35	ppb
Selenium	77-2	355.15	334.51	367.76	352.47	4.76	ppb
Selenium	78-2	363.40	365.31	374.51	367.74	1.62	ppb
Silicon	28-1	2022.73	2023.35	2033.15	2026.41	0.29	ppb
Silver	107-1	0.70	0.69	0.70	0.70	0.96	ppb
Silver	109-1	0.23	0.23	0.24	0.23	2.19	ppb
Sodium	23-2	59477.12	57652.19	59128.88	58752.73	1.65	ppb
Strontium	86-1	368.88	368.10	364.24	367.07	0.68	ppb
Strontium	88-1	365.53	367.37	362.49	365.13	0.67	ppb
Sulfur	34-1	8721.17	8511.05	8663.92	8632.05	1.26	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	350.20	346.93	342.38	346.51	1.13	ppb
Thallium	205-1	344.45	341.27	339.78	341.83	0.70	ppb
Tin	118-1	134.54	134.52	134.00	134.35	0.23	ppb
Titanium	47-1	538.19	549.74	552.46	546.80	1.38	ppb
Uranium	238-1	350.94	349.72	344.59	348.42	0.97	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	343.92	341.99	352.98	346.30	1.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				99		%
Zinc	66-2	3236.05	3129.98	3255.41	3207.15	2.11	ppb
Zirconium	90-1	372.16	372.04	370.29	371.49	0.28	ppb
Zirconium	91-1	371.33	378.36	377.96	375.89	1.05	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2926.62	2924.82	2932.03	2927.83	0.13	ppb
Antimony	121-1	365.79	367.31	365.89	366.33	0.23	ppb
Arsenic	75-2	373.12	371.72	383.09	375.98	1.65	ppb
Barium	135-1	739.31	737.93	731.05	736.10	0.60	ppb
Barium	137-1	731.92	731.82	737.68	733.80	0.46	ppb
Beryllium	9-1	355.81	358.32	350.74	354.95	1.09	ppb
Bismuth	209-1				92		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	346.01	346.68	346.27	346.32	0.10	ppb
Cadmium	106-1	372.92	366.71	372.05	370.56	0.91	ppb
Cadmium	111-1	359.91	361.37	359.19	360.16	0.31	ppb
Calcium	43-1	20488.29	20388.18	20281.49	20385.99	0.51	ppb
Calcium	44-1	20481.54	20424.75	20375.16	20427.15	0.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	340.93	339.80	344.37	341.70	0.70	ppb
Cobalt	59-2	377.48	372.75	381.76	377.33	1.19	ppb
Copper	63-2	1222.84	1240.57	1249.95	1237.79	1.11	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				97		%
Holmium	165-2				98		%
Indium	115-1				95		%
Indium	115-2				96		%
Iron	54-2	10381.58	10407.53	10512.97	10434.02	0.67	ppb
Iron	56-2	10322.74	10272.06	10193.47	10262.76	0.63	ppb
Iron	57-2	10028.39	10092.66	10147.09	10089.38	0.59	ppb
Krypton	83-1						cps
Lead	206-1	521.49	518.53	516.58	518.86	0.48	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	530.40	518.31	531.64	526.79	1.40	ppb
Lead	208-1	525.07	511.87	519.12	518.69	1.28	ppb
Lithium	6-1				91		%
Magnesium	24-2	14350.95	13979.90	14128.72	14153.19	1.32	ppb
Manganese	55-2	1048.93	1023.70	1035.23	1035.95	1.22	ppb
Molybdenum	94-1	1403.56	1378.35	1380.48	1387.46	1.01	ppb
Molybdenum	95-1	867.75	871.02	874.31	871.02	0.38	ppb
Molybdenum	96-1	925.99	917.36	916.65	920.00	0.57	ppb
Molybdenum	97-1	874.78	864.29	869.34	869.47	0.60	ppb
Molybdenum	98-1	873.24	860.02	867.06	866.77	0.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	355.29	354.03	359.33	356.22	0.78	ppb
Phosphorus	31-2	1574.19	1613.89	1557.62	1581.90	1.83	ppb
Potassium	39-2	9243.43	9291.99	9353.08	9296.16	0.59	ppb
Rhodium	103-1				93		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	363.35	373.77	369.00	368.70	1.41	ppb
Selenium	77-2	336.85	372.66	383.77	364.43	6.73	ppb
Selenium	78-2	371.86	361.58	376.00	369.81	2.01	ppb
Silicon	28-1	2035.26	2017.10	1978.49	2010.28	1.44	ppb
Silver	107-1	0.67	0.68	0.69	0.68	1.19	ppb
Silver	109-1	0.22	0.23	0.23	0.23	2.29	ppb
Sodium	23-2	60457.09	60303.71	60356.60	60372.47	0.13	ppb
Strontium	86-1	365.79	374.39	366.58	368.92	1.29	ppb
Strontium	88-1	367.02	363.00	358.59	362.87	1.16	ppb
Sulfur	34-1	8808.04	8356.33	8277.00	8480.45	3.38	ppb
Terbium	159-1				96		%
Terbium	159-2				98		%
Thallium	203-1	351.91	346.52	350.03	349.49	0.78	ppb
Thallium	205-1	350.84	348.32	342.13	347.09	1.29	ppb
Tin	118-1	132.47	135.24	135.91	134.54	1.36	ppb
Titanium	47-1	540.45	545.38	541.09	542.31	0.49	ppb
Uranium	238-1	358.32	345.97	345.89	350.06	2.04	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	351.86	350.65	354.89	352.46	0.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	3317.42	3306.05	3309.54	3311.00	0.18	ppb
Zirconium	90-1	374.50	369.99	365.36	369.95	1.23	ppb
Zirconium	91-1	373.73	373.18	371.34	372.75	0.34	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49390.41	49652.70	48894.50	49312.54	0.78	ppb
Antimony	121-1	503.21	497.86	495.31	498.80	0.81	ppb
Arsenic	75-2	486.45	488.39	488.39	487.74	0.23	ppb
Barium	135-1	2569.44	2506.36	2498.25	2524.69	1.54	ppb
Barium	137-1	2582.18	2492.29	2512.98	2529.15	1.86	ppb
Beryllium	9-1	518.10	519.36	518.46	518.64	0.12	ppb
Bismuth	209-1				78		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	491.25	475.68	483.78	483.57	1.61	ppb
Cadmium	106-1	496.59	487.02	494.91	492.84	1.04	ppb
Cadmium	111-1	491.65	476.05	494.34	487.34	2.03	ppb
Calcium	43-1	258238.64	261089.31	256475.00	258600.98	0.90	ppb
Calcium	44-1	259941.90	258908.71	257726.24	258858.95	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.99	495.08	496.96	501.68	1.96	ppb
Cobalt	59-2	497.15	501.81	493.92	497.63	0.80	ppb
Copper	63-2	4724.15	4733.61	4737.13	4731.63	0.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				92		%
Indium	115-1				83		%
Indium	115-2				86		%
Iron	54-2	127925.59	128201.58	127403.63	127843.60	0.32	ppb
Iron	56-2	126542.96	126454.53	126799.01	126598.83	0.14	ppb
Iron	57-2	126406.36	126752.88	126365.18	126508.14	0.17	ppb
Krypton	83-1						cps
Lead	206-1	2627.43	2581.82	2590.01	2599.76	0.94	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2623.40	2593.07	2587.49	2601.32	0.74	ppb
Lead	208-1	2628.96	2577.48	2582.44	2596.29	1.09	ppb
Lithium	6-1				80		%
Magnesium	24-2	274054.89	274262.38	272241.80	273519.69	0.41	ppb
Manganese	55-2	4985.31	4925.66	5002.74	4971.24	0.81	ppb
Molybdenum	94-1	5152.63	5187.95	5101.03	5147.20	0.85	ppb
Molybdenum	95-1	5158.90	5155.32	5095.97	5136.73	0.69	ppb
Molybdenum	96-1	5130.88	5067.66	5098.31	5098.95	0.62	ppb
Molybdenum	97-1	5125.00	5156.99	5088.17	5123.39	0.67	ppb
Molybdenum	98-1	5127.70	5164.88	5104.06	5132.22	0.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	459.43	464.01	455.49	459.64	0.93	ppb
Phosphorus	31-2	9907.59	9949.74	9961.39	9939.57	0.28	ppb
Potassium	39-2	125164.73	124602.87	124331.46	124699.68	0.34	ppb
Rhodium	103-1				79		%
Rhodium	103-2				81		%
Scandium	45-1				86		%
Scandium	45-2				92		%
Selenium	82-1	492.65	495.86	487.23	491.91	0.89	ppb
Selenium	77-2	471.91	521.62	477.29	490.27	5.56	ppb
Selenium	78-2	494.93	483.81	494.06	490.93	1.26	ppb
Silicon	28-1	727.83	743.25	726.90	732.66	1.25	ppb
Silver	107-1	483.90	476.42	475.36	478.56	0.97	ppb
Silver	109-1	484.30	469.31	476.38	476.66	1.57	ppb
Sodium	23-2	261559.64	257623.01	258231.30	259137.98	0.82	ppb
Strontium	86-1	520.50	521.57	514.91	518.99	0.69	ppb
Strontium	88-1	512.93	514.21	508.61	511.92	0.57	ppb
Sulfur	34-1	10862.43	10717.62	10318.12	10632.72	2.65	ppb
Terbium	159-1				88		%
Terbium	159-2				92		%
Thallium	203-1	533.50	513.57	518.81	521.96	1.98	ppb
Thallium	205-1	521.78	515.96	518.50	518.75	0.56	ppb
Tin	118-1	510.08	497.56	501.08	502.90	1.28	ppb
Titanium	47-1	5131.76	5188.31	5096.98	5139.02	0.90	ppb
Uranium	238-1	539.14	529.34	528.41	532.30	1.12	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	497.41	496.17	490.87	494.82	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				93		%
Zinc	66-2	4746.93	4765.15	4744.41	4752.16	0.24	ppb
Zirconium	90-1	524.26	525.20	509.30	519.59	1.72	ppb
Zirconium	91-1	529.93	509.45	514.05	517.81	2.08	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.49	0.48	0.97	0.98	51.33	ppb
Antimony	121-1	0.10	0.11	0.11	0.11	5.34	ppb
Arsenic	75-2	0.00	0.03	0.04	0.03	70.78	ppb
Barium	135-1	0.12	0.15	0.20	0.16	26.02	ppb
Barium	137-1	0.13	0.17	0.20	0.17	19.29	ppb
Beryllium	9-1	0.16	0.15	0.13	0.15	10.15	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.07	0.13	0.10	24.92	ppb
Cadmium	106-1	-0.75	-0.43	-0.95	-0.71		ppb
Cadmium	111-1	0.01	0.02	0.03	0.02	47.95	ppb
Calcium	43-1	14.00	17.89	22.10	18.00	22.52	ppb
Calcium	44-1	16.07	16.88	22.34	18.43	18.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.02	0.00	0.01	123.85	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	31.23	ppb
Copper	63-2	0.17	-0.13	-0.05	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				101		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	5.32	3.30	4.15	4.26	23.81	ppb
Iron	56-2	4.76	3.51	3.57	3.95	17.81	ppb
Iron	57-2	4.91	4.11	2.85	3.95	26.21	ppb
Krypton	83-1						cps
Lead	206-1	0.26	0.26	0.31	0.28	10.42	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.27	0.25	0.30	0.27	9.31	ppb
Lead	208-1	0.27	0.25	0.29	0.27	8.35	ppb
Lithium	6-1				95		%
Magnesium	24-2	8.55	5.20	5.51	6.42	28.86	ppb
Manganese	55-2	0.22	0.18	0.17	0.19	12.87	ppb
Molybdenum	94-1	0.34	0.34	0.44	0.37	15.13	ppb
Molybdenum	95-1	0.32	0.34	0.44	0.37	17.51	ppb
Molybdenum	96-1	0.31	0.33	0.41	0.35	15.16	ppb
Molybdenum	97-1	0.31	0.36	0.44	0.37	18.03	ppb
Molybdenum	98-1	0.33	0.35	0.43	0.37	14.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	-0.03	0.05	0.02	191.51	ppb
Phosphorus	31-2	-16.34	-22.82	-15.19	-18.12		ppb
Potassium	39-2	36.58	14.24	23.39	24.74	45.40	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	-0.30	0.00	0.03	-0.09		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.45	-0.31	-0.08	0.02	1987.85	ppb
Silicon	28-1	0.97	-0.85	-0.74	-0.21		ppb
Silver	107-1	0.08	0.07	0.08	0.07	7.15	ppb
Silver	109-1	0.08	0.07	0.07	0.07	8.15	ppb
Sodium	23-2	70.20	47.86	55.73	57.93	19.56	ppb
Strontium	86-1	0.03	0.02	0.03	0.03	25.07	ppb
Strontium	88-1	0.02	0.03	0.03	0.03	19.40	ppb
Sulfur	34-1	-668.28	-1297.23	-1134.13	-1033.21		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.05	0.06	0.06	0.06	9.81	ppb
Thallium	205-1	0.06	0.05	0.06	0.06	9.58	ppb
Tin	118-1	0.05	0.03	0.06	0.05	37.38	ppb
Titanium	47-1	0.23	0.26	0.37	0.29	26.45	ppb
Uranium	238-1	0.02	0.02	0.03	0.03	24.95	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.01	0.02	31.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				102		%
Zinc	66-2	0.56	0.33	0.49	0.46	25.74	ppb
Zirconium	90-1	0.04	0.03	0.05	0.04	19.74	ppb
Zirconium	91-1	0.04	0.03	0.03	0.03	10.53	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.66	-0.82	-0.36	-0.61		ppb
Antimony	121-1	0.02	0.01	0.01	0.02	17.69	ppb
Arsenic	75-2	0.02	-0.01	0.00	0.00	275.81	ppb
Barium	135-1	0.03	0.04	0.04	0.04	22.02	ppb
Barium	137-1	0.04	0.06	0.04	0.05	19.61	ppb
Beryllium	9-1	0.05	0.06	0.05	0.05	11.56	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.01	0.05	0.03	70.74	ppb
Cadmium	106-1	-1.66	-1.68	-1.40	-1.58		ppb
Cadmium	111-1	-0.03	-0.03	-0.04	-0.03		ppb
Calcium	43-1	8.21	7.19	7.82	7.74	6.64	ppb
Calcium	44-1	7.02	6.59	6.68	6.77	3.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	0.03	0.01	398.88	ppb
Cobalt	59-2	0.00	0.01	0.00	0.00	3058.19	ppb
Copper	63-2	-0.22	-0.30	-0.21	-0.24		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	0.51	0.39	0.84	0.58	40.21	ppb
Iron	56-2	0.25	0.23	0.21	0.23	9.58	ppb
Iron	57-2	0.05	0.20	0.23	0.16	59.67	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.05	0.05	2.07	ppb

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.04	0.04	15.92	ppb
Lead	208-1	0.05	0.04	0.04	0.04	4.56	ppb
Lithium	6-1				89		%
Magnesium	24-2	-0.61	-0.95	-0.82	-0.79		ppb
Manganese	55-2	0.06	0.05	0.08	0.06	27.88	ppb
Molybdenum	94-1	0.01	0.01	0.02	0.01	61.20	ppb
Molybdenum	95-1	0.02	0.01	0.01	0.01	25.46	ppb
Molybdenum	96-1	0.01	0.01	0.02	0.01	33.06	ppb
Molybdenum	97-1	0.01	0.00	0.01	0.01	54.92	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	10.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.02	0.01	0.00		ppb
Phosphorus	31-2	-18.14	-16.16	-12.40	-15.57		ppb
Potassium	39-2	23.83	20.28	16.09	20.07	19.30	ppb
Rhodium	103-1				93		%
Rhodium	103-2				93		%
Scandium	45-1				92		%
Scandium	45-2				93		%
Selenium	82-1	0.00	0.04	0.09	0.04	94.87	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.07	-0.31	0.43	0.02	2393.53	ppb
Silicon	28-1	-0.05	-0.08	0.12	-0.01		ppb
Silver	107-1	0.00	0.00	0.00	0.00	97.46	ppb
Silver	109-1	0.00	0.00	0.00	0.00	80.20	ppb
Sodium	23-2	30.96	28.68	30.30	29.98	3.92	ppb
Strontium	86-1	0.00	0.01	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	16.39	ppb
Sulfur	34-1	-476.00	-378.06	-351.33	-401.80		ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.01	0.01	0.01	22.84	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	14.86	ppb
Tin	118-1	0.01	0.02	0.02	0.02	37.37	ppb
Titanium	47-1	0.01	0.00	0.00	0.00	148.16	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	267.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				95		%
Zinc	66-2	0.44	0.51	0.42	0.45	10.51	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	25.66	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	824.11	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	42.05	41.83	40.39	41.42	2.17	ppb
Antimony	121-1	3.81	3.83	4.11	3.92	4.27	ppb
Arsenic	75-2	1.76	2.38	2.08	2.08	15.02	ppb
Barium	135-1	19.12	19.54	20.68	19.78	4.08	ppb
Barium	137-1	19.56	19.48	21.17	20.07	4.76	ppb
Beryllium	9-1	2.06	2.01	2.13	2.07	3.03	ppb
Bismuth	209-1				93		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	2.19	1.94	1.90	2.01	7.88	ppb
Cadmium	106-1	1.23	1.30	1.85	1.46	23.46	ppb
Cadmium	111-1	1.98	2.07	2.07	2.04	2.44	ppb
Calcium	43-1	1007.45	998.57	1033.55	1013.19	1.79	ppb
Calcium	44-1	988.50	992.85	1043.36	1008.24	3.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.96	4.13	3.76	3.95	4.58	ppb
Cobalt	59-2	2.06	2.25	2.10	2.14	4.61	ppb
Copper	63-2	4.48	4.71	4.61	4.60	2.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	54-2	436.41	464.95	439.00	446.79	3.53	ppb
Iron	56-2	434.99	466.32	438.42	446.58	3.85	ppb
Iron	57-2	441.85	457.78	449.27	449.63	1.77	ppb
Krypton	83-1						cps
Lead	206-1	1.98	1.98	2.01	1.99	0.87	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.00	2.01	2.07	2.03	1.91	ppb
Lead	208-1	1.99	1.98	2.03	2.00	1.48	ppb
Lithium	6-1				91		%
Magnesium	24-2	1094.95	1164.96	1101.08	1120.33	3.46	ppb
Manganese	55-2	2.22	2.25	2.11	2.19	3.44	ppb
Molybdenum	94-1	11.29	11.25	12.13	11.56	4.31	ppb
Molybdenum	95-1	9.56	9.78	10.26	9.87	3.62	ppb
Molybdenum	96-1	9.44	9.72	10.29	9.82	4.39	ppb
Molybdenum	97-1	9.41	9.65	10.11	9.73	3.63	ppb
Molybdenum	98-1	9.42	9.63	10.04	9.70	3.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.92	2.29	2.22	2.14	9.13	ppb
Phosphorus	31-2	27.86	32.98	34.85	31.90	11.36	ppb
Potassium	39-2	1014.97	1085.46	1019.52	1039.99	3.79	ppb
Rhodium	103-1				94		%
Rhodium	103-2				92		%
Scandium	45-1				93		%
Scandium	45-2				92		%
Selenium	82-1	9.91	9.46	11.26	10.21	9.19	ppb
Selenium	77-2	10.81	13.69	9.89	11.46	17.32	ppb
Selenium	78-2	10.71	15.15	12.34	12.73	17.65	ppb
Silicon	28-1	9.27	9.17	10.40	9.62	7.11	ppb
Silver	107-1	1.89	1.94	2.06	1.96	4.26	ppb
Silver	109-1	1.90	2.00	2.06	1.99	4.04	ppb
Sodium	23-2	1076.48	1155.48	1076.58	1102.85	4.13	ppb
Strontium	86-1	1.78	1.85	1.96	1.86	5.11	ppb
Strontium	88-1	1.82	1.86	1.98	1.89	4.50	ppb
Sulfur	34-1	-402.69	-411.55	-71.20	-295.15		ppb
Terbium	159-1				93		%
Terbium	159-2				91		%
Thallium	203-1	1.89	1.87	1.92	1.89	1.35	ppb
Thallium	205-1	1.85	1.88	1.96	1.90	3.06	ppb
Tin	118-1	9.81	9.83	10.50	10.05	3.93	ppb
Titanium	47-1	12.11	12.56	12.87	12.51	3.03	ppb
Uranium	238-1	1.83	1.81	1.90	1.85	2.42	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.03	10.54	10.03	10.20	2.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				93		%
Zinc	66-2	11.12	12.10	11.03	11.42	5.22	ppb
Zirconium	90-1	1.90	1.92	2.11	1.98	5.72	ppb
Zirconium	91-1	1.87	1.88	2.01	1.92	4.09	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21.09	20.86	21.37	21.10	1.21	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.89	ppb
Arsenic	75-2	0.29	0.35	0.40	0.35	15.56	ppb
Barium	135-1	433.64	430.95	415.14	426.58	2.34	ppb
Barium	137-1	435.82	426.81	421.27	427.97	1.72	ppb
Beryllium	9-1	0.33	0.34	0.33	0.33	2.38	ppb
Bismuth	209-1				87		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.40	0.19	0.38	0.32	35.29	ppb
Cadmium	106-1	0.69	0.12	-0.60	0.07	918.12	ppb
Cadmium	111-1	0.41	0.38	0.35	0.38	7.46	ppb
Calcium	43-1	70875.61	70834.69	72156.88	71289.06	1.05	ppb
Calcium	44-1	71605.63	70785.34	71995.55	71462.17	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7148.30	7106.68	6995.26	7083.42	1.12	ppb
Cobalt	59-2	14.93	14.91	14.69	14.84	0.89	ppb
Copper	63-2	10.16	10.30	10.15	10.21	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				92		%
Holmium	165-2				95		%
Indium	115-1				91		%
Indium	115-2				93		%
Iron	54-2	6260.37	6268.70	6253.12	6260.73	0.12	ppb
Iron	56-2	311.29	313.45	310.75	311.83	0.46	ppb
Iron	57-2	312.51	313.89	305.93	310.77	1.37	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.15	0.14	0.15	3.52	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.15	0.13	0.14	6.95	ppb
Lead	208-1	0.14	0.14	0.14	0.14	1.89	ppb
Lithium	6-1				85		%
Magnesium	24-2	27664.53	27870.79	27891.20	27808.84	0.45	ppb
Manganese	55-2	439.71	441.99	441.11	440.94	0.26	ppb
Molybdenum	94-1	0.18	0.17	0.17	0.18	3.41	ppb
Molybdenum	95-1	0.21	0.20	0.20	0.20	4.41	ppb
Molybdenum	96-1	0.18	0.20	0.18	0.19	4.47	ppb
Molybdenum	97-1	0.18	0.22	0.20	0.20	8.91	ppb
Molybdenum	98-1	0.20	0.19	0.18	0.19	3.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	215.82	213.66	213.60	214.36	0.59	ppb
Phosphorus	31-2	108.25	106.87	104.13	106.42	1.97	ppb
Potassium	39-2	1677.63	1671.94	1651.07	1666.88	0.84	ppb
Rhodium	103-1				87		%
Rhodium	103-2				91		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	0.87	0.73	1.12	0.91	21.91	ppb
Selenium	77-2	2.46	0.00	1.63	1.36	91.89	ppb
Selenium	78-2	0.68	0.67	-0.07	0.43	100.19	ppb
Silicon	28-1	5049.95	4928.27	5090.26	5022.83	1.68	ppb
Silver	107-1	0.04	0.03	0.03	0.03	20.45	ppb
Silver	109-1	0.04	0.04	0.03	0.04	17.45	ppb
Sodium	23-2	26410.31	26288.71	26295.34	26331.45	0.26	ppb
Strontium	86-1	161.41	161.24	158.62	160.42	0.98	ppb
Strontium	88-1	166.00	163.67	161.83	163.83	1.28	ppb
Sulfur	34-1	9016.94	8518.95	8861.99	8799.29	2.90	ppb
Terbium	159-1				92		%
Terbium	159-2				94		%
Thallium	203-1	0.04	0.03	0.03	0.03	16.81	ppb
Thallium	205-1	0.03	0.03	0.04	0.03	4.21	ppb
Tin	118-1	0.29	0.29	0.28	0.29	2.76	ppb
Titanium	47-1	1.51	1.40	1.32	1.41	6.69	ppb
Uranium	238-1	1.20	1.18	1.21	1.20	1.15	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.52	0.52	0.50	0.51	2.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				95		%
Zinc	66-2	20.84	21.46	20.82	21.04	1.74	ppb
Zirconium	90-1	0.02	0.01	0.02	0.02	30.57	ppb
Zirconium	91-1	0.03	0.01	0.02	0.02	67.95	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.36	1.06	1.39	1.27	14.40	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	21.47	ppb
Arsenic	75-2	0.16	0.11	0.14	0.13	17.25	ppb
Barium	135-1	295.10	289.95	285.67	290.24	1.63	ppb
Barium	137-1	301.88	293.53	291.48	295.63	1.86	ppb
Beryllium	9-1	0.07	0.06	0.06	0.06	4.77	ppb
Bismuth	209-1				91		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.04	0.03	0.04	5.20	ppb
Cadmium	106-1	-0.51	-0.17	-0.90	-0.52		ppb
Cadmium	111-1	0.02	0.02	0.01	0.02	29.97	ppb
Calcium	43-1	68598.96	64703.12	66086.03	66462.70	2.97	ppb
Calcium	44-1	69015.43	65450.15	65511.48	66659.02	3.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	24.14	22.29	23.14	23.19	3.98	ppb
Cobalt	59-2	1.85	1.72	1.79	1.79	3.70	ppb
Copper	63-2	0.75	0.63	0.72	0.70	8.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				95		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	54-2	23.69	22.19	24.50	23.46	5.00	ppb
Iron	56-2	3.57	3.19	3.45	3.40	5.80	ppb
Iron	57-2	4.32	5.09	5.97	5.13	16.16	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.08	0.08	4.94	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.07	0.06	0.07	19.15	ppb
Lead	208-1	0.08	0.07	0.07	0.07	8.94	ppb
Lithium	6-1				89		%
Magnesium	24-2	27783.07	26344.07	26749.55	26958.90	2.75	ppb
Manganese	55-2	136.28	125.60	128.89	130.25	4.20	ppb
Molybdenum	94-1	0.04	0.03	0.04	0.04	10.46	ppb
Molybdenum	95-1	0.04	0.03	0.03	0.04	12.95	ppb
Molybdenum	96-1	0.02	0.02	0.03	0.02	25.45	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	13.38	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	9.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	58.53	54.03	55.03	55.87	4.23	ppb
Phosphorus	31-2	26.43	12.84	-1.10	12.72	108.17	ppb
Potassium	39-2	1611.39	1497.86	1555.79	1555.02	3.65	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	0.65	1.23	0.89	0.92	31.58	ppb
Selenium	77-2	0.83	0.77	0.00	0.53	86.75	ppb
Selenium	78-2	1.94	1.32	-0.07	1.06	97.11	ppb
Silicon	28-1	4827.85	4617.36	4595.52	4680.24	2.74	ppb
Silver	107-1	0.01	0.01	0.01	0.01	5.17	ppb
Silver	109-1	0.01	0.01	0.01	0.01	22.22	ppb
Sodium	23-2	26183.10	24627.33	25633.06	25481.17	3.10	ppb
Strontium	86-1	160.25	154.88	156.56	157.23	1.75	ppb
Strontium	88-1	163.31	156.07	159.69	159.69	2.27	ppb
Sulfur	34-1	7421.41	6795.83	7032.98	7083.41	4.46	ppb
Terbium	159-1				97		%
Terbium	159-2				95		%
Thallium	203-1	0.03	0.03	0.03	0.03	9.82	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	2.69	ppb
Tin	118-1	0.13	0.12	0.11	0.12	7.72	ppb
Titanium	47-1	1.07	1.08	1.12	1.09	2.14	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	12.54	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	85.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	4.60	4.28	4.52	4.47	3.70	ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	51.11	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	526.70	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.80	1.70	1.64	1.71	4.74	ppb
Antimony	121-1	0.04	0.03	0.03	0.04	14.84	ppb
Arsenic	75-2	0.14	0.17	0.17	0.16	11.75	ppb
Barium	135-1	196.35	183.70	180.52	186.86	4.48	ppb
Barium	137-1	194.47	185.66	183.45	187.86	3.11	ppb
Beryllium	9-1	0.06	0.05	0.04	0.05	17.85	ppb
Bismuth	209-1				87		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.08	0.06	0.05	72.20	ppb
Cadmium	106-1	-0.08	-1.17	-0.68	-0.64		ppb
Cadmium	111-1	0.01	-0.01	0.00	0.00	5045.89	ppb
Calcium	43-1	74558.28	68514.19	69784.27	70952.25	4.49	ppb
Calcium	44-1	74782.59	69553.95	69804.04	71380.19	4.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.23	23.26	23.31	23.27	0.18	ppb
Cobalt	59-2	1.43	1.42	1.43	1.43	0.57	ppb
Copper	63-2	17.53	17.56	17.55	17.55	0.09	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				97		%
Indium	115-1				92		%
Indium	115-2				95		%
Iron	54-2	24.27	23.80	22.55	23.54	3.76	ppb
Iron	56-2	4.25	4.29	4.38	4.31	1.57	ppb
Iron	57-2	6.27	5.77	6.84	6.29	8.52	ppb
Krypton	83-1						cps
Lead	206-1	27.21	26.75	26.00	26.65	2.29	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	26.36	25.90	25.14	25.80	2.39	ppb
Lead	208-1	26.68	25.96	25.25	25.97	2.76	ppb
Lithium	6-1				87		%
Magnesium	24-2	27291.72	26596.51	27196.14	27028.12	1.39	ppb
Manganese	55-2	36.66	36.57	37.19	36.81	0.91	ppb
Molybdenum	94-1	0.03	0.02	0.03	0.03	17.43	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.04	12.02	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.02	20.57	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	12.91	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	16.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	68.53	68.70	68.54	68.59	0.14	ppb
Phosphorus	31-2	9.71	23.98	10.06	14.58	55.83	ppb
Potassium	39-2	1621.55	1613.52	1617.08	1617.38	0.25	ppb
Rhodium	103-1				89		%
Rhodium	103-2				92		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	0.56	1.00	0.57	0.71	35.54	ppb
Selenium	77-2	0.81	0.78	0.00	0.53	86.64	ppb
Selenium	78-2	1.15	0.63	1.37	1.05	36.08	ppb
Silicon	28-1	5187.45	4810.12	4810.12	4935.90	4.41	ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.07	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.27	ppb
Sodium	23-2	25570.03	25543.78	25452.06	25521.96	0.24	ppb
Strontium	86-1	184.16	172.95	171.71	176.27	3.89	ppb
Strontium	88-1	189.60	174.11	172.95	178.89	5.20	ppb
Sulfur	34-1	8400.43	7503.54	7315.27	7739.75	7.49	ppb
Terbium	159-1				92		%
Terbium	159-2				95		%
Thallium	203-1	0.05	0.04	0.03	0.04	15.88	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	3.08	ppb
Tin	118-1	0.99	0.92	0.90	0.94	5.20	ppb
Titanium	47-1	1.19	1.11	1.06	1.12	5.84	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	29.88	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	31.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				97		%
Zinc	66-2	20.80	20.63	20.16	20.53	1.62	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	11.39	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	194.99	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.67	9.86	9.50	9.34	6.53	ppb
Antimony	121-1	0.05	0.04	0.05	0.05	6.68	ppb
Arsenic	75-2	0.17	0.19	0.17	0.18	7.52	ppb
Barium	135-1	171.22	176.29	177.44	174.98	1.89	ppb
Barium	137-1	174.60	176.20	179.83	176.88	1.51	ppb
Beryllium	9-1	0.04	0.04	0.03	0.04	9.16	ppb
Bismuth	209-1				88		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.04	0.07	0.04	105.59	ppb
Cadmium	106-1	-1.23	-0.54	-1.33	-1.03		ppb
Cadmium	111-1	-0.02	-0.01	-0.04	-0.02		ppb
Calcium	43-1	67008.85	67713.91	66965.00	67229.25	0.63	ppb
Calcium	44-1	68068.04	68061.77	67255.39	67795.07	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	147.94	152.11	142.17	147.41	3.38	ppb
Cobalt	59-2	0.58	0.60	0.59	0.59	1.40	ppb
Copper	63-2	-0.05	-0.02	-0.09	-0.05		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				93		%
Iron	54-2	130.76	131.47	126.03	129.42	2.28	ppb
Iron	56-2	3.03	3.15	2.92	3.03	3.78	ppb
Iron	57-2	5.91	5.20	5.57	5.56	6.37	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.04	0.05	12.54	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.03	0.05	0.04	23.11	ppb
Lead	208-1	0.05	0.04	0.04	0.04	12.28	ppb
Lithium	6-1				87		%
Magnesium	24-2	27656.53	28384.07	26108.64	27383.08	4.24	ppb
Manganese	55-2	36.43	36.32	34.62	35.79	2.84	ppb
Molybdenum	94-1	0.09	0.08	0.08	0.08	9.11	ppb
Molybdenum	95-1	0.08	0.09	0.09	0.08	8.82	ppb
Molybdenum	96-1	0.09	0.08	0.07	0.08	12.32	ppb
Molybdenum	97-1	0.08	0.07	0.10	0.08	13.26	ppb
Molybdenum	98-1	0.07	0.08	0.08	0.08	6.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	20.97	21.37	20.52	20.95	2.01	ppb
Phosphorus	31-2	35.69	19.92	19.76	25.12	36.43	ppb
Potassium	39-2	1645.93	1663.98	1558.47	1622.79	3.48	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				93		%
Scandium	45-2				93		%
Selenium	82-1	0.59	0.63	0.71	0.65	9.90	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.93	1.18	-0.31	0.60	133.23	ppb
Silicon	28-1	4660.22	4611.72	4666.30	4646.08	0.64	ppb
Silver	107-1	0.00	0.00	0.01	0.00	34.32	ppb
Silver	109-1	0.01	0.00	0.01	0.01	20.40	ppb
Sodium	23-2	26728.21	27708.79	25503.83	26646.94	4.15	ppb
Strontium	86-1	177.14	177.17	177.01	177.10	0.05	ppb
Strontium	88-1	180.10	180.93	179.31	180.11	0.45	ppb
Sulfur	34-1	7430.28	7306.87	6954.46	7230.54	3.41	ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.05	0.04	0.04	0.04	10.19	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	5.12	ppb
Tin	118-1	0.09	0.11	0.09	0.10	11.94	ppb
Titanium	47-1	1.08	1.10	1.08	1.09	1.15	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	5.01	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.29	0.29	0.29	0.29	0.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				95		%
Zinc	66-2	0.45	0.46	0.35	0.42	14.49	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	11.02	ppb
Zirconium	91-1	0.01	0.00	0.02	0.01	73.30	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.68	9.91	8.60	9.06	8.11	ppb
Antimony	121-1	0.05	0.04	0.05	0.05	5.85	ppb
Arsenic	75-2	0.43	0.30	0.31	0.35	20.21	ppb
Barium	135-1	183.05	177.57	176.25	178.96	2.02	ppb
Barium	137-1	185.86	179.25	178.81	181.31	2.18	ppb
Beryllium	9-1	0.03	0.03	0.02	0.03	20.37	ppb
Bismuth	209-1				87		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.00	-0.01	0.00		ppb
Cadmium	106-1	-1.11	-1.48	-2.25	-1.62		ppb
Cadmium	111-1	-0.02	-0.03	-0.04	-0.03		ppb
Calcium	43-1	70569.40	69138.02	67794.59	69167.34	2.01	ppb
Calcium	44-1	70643.65	68643.80	67674.38	68987.28	2.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	145.85	147.15	144.73	145.91	0.83	ppb
Cobalt	59-2	0.56	0.53	0.59	0.56	6.10	ppb
Copper	63-2	-0.01	-0.08	-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				92		%
Holmium	165-2				94		%
Indium	115-1				91		%
Indium	115-2				93		%
Iron	54-2	129.12	127.72	129.27	128.70	0.66	ppb
Iron	56-2	2.45	2.66	2.65	2.59	4.58	ppb
Iron	57-2	6.25	5.53	5.19	5.66	9.60	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.03	0.04	0.04	14.89	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.03	0.04	21.17	ppb
Lead	208-1	0.04	0.03	0.04	0.04	12.24	ppb
Lithium	6-1				85		%
Magnesium	24-2	27660.84	27141.31	27002.79	27268.31	1.27	ppb
Manganese	55-2	35.89	35.43	35.87	35.73	0.73	ppb
Molybdenum	94-1	0.09	0.10	0.09	0.09	5.77	ppb
Molybdenum	95-1	0.09	0.08	0.09	0.09	5.62	ppb
Molybdenum	96-1	0.07	0.08	0.08	0.08	3.74	ppb
Molybdenum	97-1	0.09	0.08	0.08	0.08	5.21	ppb
Molybdenum	98-1	0.08	0.09	0.08	0.08	8.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.08	20.87	20.39	20.78	1.69	ppb
Phosphorus	31-2	7.84	26.31	17.45	17.20	53.72	ppb
Potassium	39-2	1609.53	1634.03	1617.81	1620.46	0.77	ppb
Rhodium	103-1				89		%
Rhodium	103-2				90		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	0.83	0.85	0.79	0.82	3.33	ppb
Selenium	77-2	1.64	0.00	2.45	1.36	91.51	ppb
Selenium	78-2	0.43	1.15	0.43	0.67	62.62	ppb
Silicon	28-1	4879.08	4655.97	4627.15	4720.73	2.92	ppb
Silver	107-1	0.00	0.00	0.00	0.00	34.66	ppb
Silver	109-1	0.01	0.00	0.00	0.00	12.76	ppb
Sodium	23-2	26387.68	26398.95	26017.04	26267.89	0.83	ppb
Strontium	86-1	183.74	180.87	177.39	180.67	1.76	ppb
Strontium	88-1	187.18	183.94	180.69	183.94	1.76	ppb
Sulfur	34-1	7934.86	7310.24	7151.75	7465.61	5.55	ppb
Terbium	159-1				91		%
Terbium	159-2				94		%
Thallium	203-1	0.04	0.04	0.04	0.04	4.55	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	7.82	ppb
Tin	118-1	0.12	0.09	0.09	0.10	15.00	ppb
Titanium	47-1	1.04	1.06	1.06	1.05	0.88	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	4.16	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.27	0.27	0.28	0.27	1.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				95		%
Zinc	66-2	0.32	0.34	0.38	0.34	9.13	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	5.60	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	64.62	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.49	2.16	1.09	1.91	38.30	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	17.75	ppb
Arsenic	75-2	0.05	0.00	0.04	0.03	76.49	ppb
Barium	135-1	35.94	36.35	35.90	36.06	0.69	ppb
Barium	137-1	36.45	37.07	36.83	36.78	0.85	ppb
Beryllium	9-1	0.03	0.02	0.02	0.02	17.90	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.03	0.04	0.02	104.05	ppb
Cadmium	106-1	-1.15	-0.51	-1.14	-0.93		ppb
Cadmium	111-1	-0.02	-0.02	-0.03	-0.02		ppb
Calcium	43-1	13532.00	13727.83	13642.64	13634.15	0.72	ppb
Calcium	44-1	13698.74	13866.20	13653.64	13739.53	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.28	29.93	31.63	30.28	4.01	ppb
Cobalt	59-2	0.12	0.11	0.12	0.11	5.14	ppb
Copper	63-2	-0.10	-0.10	-0.06	-0.09		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				94		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	26.58	26.96	28.25	27.26	3.21	ppb
Iron	56-2	0.73	0.78	0.77	0.76	3.36	ppb
Iron	57-2	0.73	0.99	0.66	0.80	22.05	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.02	0.02	21.01	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.01	0.01	0.02	53.46	ppb
Lead	208-1	0.02	0.02	0.01	0.02	11.89	ppb
Lithium	6-1				88		%
Magnesium	24-2	5636.98	5605.38	6010.22	5750.86	3.92	ppb
Manganese	55-2	7.26	7.67	7.60	7.51	2.94	ppb
Molybdenum	94-1	0.04	0.03	0.03	0.03	14.76	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.02	30.94	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.02	16.84	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	13.52	ppb
Molybdenum	98-1	0.02	0.01	0.02	0.02	24.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.21	4.28	4.44	4.31	2.62	ppb
Phosphorus	31-2	-18.72	0.53	-22.24	-13.48		ppb
Potassium	39-2	325.43	341.85	360.68	342.65	5.15	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				94		%
Scandium	45-2				93		%
Selenium	82-1	0.00	0.04	0.24	0.10	135.46	ppb
Selenium	77-2	0.00	0.00	0.85	0.28	173.21	ppb
Selenium	78-2	0.40	0.17	0.20	0.26	48.13	ppb
Silicon	28-1	937.51	940.54	931.91	936.65	0.47	ppb
Silver	107-1	0.00	0.00	0.00	0.00	98.85	ppb
Silver	109-1	0.00	0.00	0.00	0.00	6.51	ppb
Sodium	23-2	5280.30	5350.02	5733.50	5454.61	4.47	ppb
Strontium	86-1	35.59	35.78	36.13	35.83	0.76	ppb
Strontium	88-1	37.11	37.78	36.40	37.09	1.86	ppb
Sulfur	34-1	1301.22	1203.33	1138.23	1214.26	6.76	ppb
Terbium	159-1				93		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.02	0.02	0.02	7.15	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.97	ppb
Tin	118-1	0.03	0.26	0.02	0.10	133.60	ppb
Titanium	47-1	0.20	0.23	0.27	0.23	16.37	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	7.71	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.06	0.07	0.06	19.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				95		%
Zinc	66-2	0.26	0.24	0.27	0.26	4.39	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	73.25	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	30.57	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1965.47	1963.17	1983.57	1970.74	0.57	ppb
Antimony	121-1	97.09	100.35	98.22	98.56	1.68	ppb
Arsenic	75-2	40.78	39.33	42.80	40.97	4.25	ppb
Barium	135-1	2191.69	2258.95	2200.83	2217.16	1.65	ppb
Barium	137-1	2186.13	2238.85	2144.72	2189.90	2.15	ppb
Beryllium	9-1	49.97	51.04	50.82	50.61	1.12	ppb
Bismuth	209-1				88		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	40.35	41.64	40.38	40.79	1.81	ppb
Cadmium	106-1	37.07	41.56	38.55	39.06	5.85	ppb
Cadmium	111-1	48.94	50.37	49.78	49.70	1.45	ppb
Calcium	43-1	65129.51	67668.83	64929.92	65909.42	2.32	ppb
Calcium	44-1	65537.50	66836.37	65805.94	66059.94	1.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	350.47	349.25	349.51	349.74	0.18	ppb
Cobalt	59-2	530.19	531.15	530.07	530.47	0.11	ppb
Copper	63-2	274.63	275.94	274.26	274.94	0.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				96		%
Indium	115-1				94		%
Indium	115-2				96		%
Iron	54-2	1410.24	1429.56	1411.16	1416.99	0.77	ppb
Iron	56-2	1151.79	1129.79	1142.74	1141.44	0.97	ppb
Iron	57-2	1121.00	1124.73	1114.93	1120.22	0.44	ppb
Krypton	83-1						cps
Lead	206-1	20.11	20.58	21.06	20.58	2.30	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.34	20.48	21.05	20.62	1.81	ppb
Lead	208-1	20.07	20.50	20.91	20.49	2.05	ppb
Lithium	6-1				87		%
Magnesium	24-2	26883.32	26887.43	26589.24	26786.66	0.64	ppb
Manganese	55-2	558.96	554.59	553.44	555.66	0.52	ppb
Molybdenum	94-1	0.15	0.13	0.16	0.15	10.53	ppb
Molybdenum	95-1	0.14	0.17	0.17	0.16	9.34	ppb
Molybdenum	96-1	0.16	0.16	0.15	0.16	3.23	ppb
Molybdenum	97-1	0.14	0.15	0.14	0.14	5.05	ppb
Molybdenum	98-1	0.14	0.15	0.14	0.15	5.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	533.19	534.97	532.37	533.51	0.25	ppb
Phosphorus	31-2	15.97	12.60	24.51	17.69	34.70	ppb
Potassium	39-2	1591.86	1590.69	1621.76	1601.44	1.10	ppb
Rhodium	103-1				90		%
Rhodium	103-2				92		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	98.47	100.91	101.06	100.15	1.45	ppb
Selenium	77-2	108.27	84.70	100.79	97.92	12.30	ppb
Selenium	78-2	104.73	101.94	95.31	100.66	4.81	ppb
Silicon	28-1	4490.28	4518.48	4470.35	4493.04	0.54	ppb
Silver	107-1	48.60	50.05	49.61	49.42	1.50	ppb
Silver	109-1	49.13	50.61	50.05	49.93	1.49	ppb
Sodium	23-2	25966.79	25951.00	25840.23	25919.34	0.27	ppb
Strontium	86-1	171.64	175.89	175.35	174.29	1.33	ppb
Strontium	88-1	176.13	179.78	179.73	178.55	1.17	ppb
Sulfur	34-1	6853.57	6895.52	6726.92	6825.34	1.29	ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	48.68	49.25	50.22	49.38	1.57	ppb
Thallium	205-1	50.18	51.36	50.29	50.61	1.29	ppb
Tin	118-1	0.27	0.28	0.28	0.28	2.08	ppb
Titanium	47-1	1.15	1.12	1.14	1.14	1.15	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.22	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	509.20	512.87	509.13	510.40	0.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	529.37	526.46	529.49	528.44	0.32	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	7.62	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	8.00	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.34	9.43	9.51	10.09	10.67	ppb
Antimony	121-1	0.22	0.23	0.23	0.22	3.11	ppb
Arsenic	75-2	0.21	0.31	0.26	0.26	19.16	ppb
Barium	135-1	178.82	178.41	179.93	179.05	0.44	ppb
Barium	137-1	180.17	180.41	181.33	180.64	0.34	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	2.30	ppb
Bismuth	209-1				90		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.09	0.04	0.07	42.56	ppb
Cadmium	106-1	0.21	-0.76	-0.64	-0.40		ppb
Cadmium	111-1	0.05	0.00	0.03	0.02	96.17	ppb
Calcium	43-1	68365.67	69297.44	67642.00	68435.04	1.21	ppb
Calcium	44-1	68193.97	68356.20	67744.16	68098.11	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	145.93	148.00	144.63	146.18	1.16	ppb
Cobalt	59-2	0.56	0.58	0.60	0.58	3.32	ppb
Copper	63-2	2.15	2.52	2.43	2.37	8.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				96		%
Indium	115-1				95		%
Indium	115-2				96		%
Iron	54-2	128.95	131.73	129.85	130.18	1.09	ppb
Iron	56-2	3.42	3.58	3.60	3.54	2.82	ppb
Iron	57-2	6.44	6.13	4.38	5.65	19.62	ppb
Krypton	83-1						cps
Lead	206-1	0.41	0.47	0.46	0.45	7.01	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.40	0.47	0.46	0.44	7.82	ppb
Lead	208-1	0.40	0.47	0.46	0.44	8.27	ppb
Lithium	6-1				90		%
Magnesium	24-2	27497.83	27345.91	26940.91	27261.55	1.06	ppb
Manganese	55-2	40.19	40.47	39.89	40.19	0.72	ppb
Molybdenum	94-1	0.10	0.09	0.10	0.10	4.18	ppb
Molybdenum	95-1	0.11	0.11	0.12	0.11	2.75	ppb
Molybdenum	96-1	0.11	0.11	0.09	0.10	7.81	ppb
Molybdenum	97-1	0.11	0.09	0.11	0.10	12.06	ppb
Molybdenum	98-1	0.11	0.11	0.11	0.11	2.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	20.83	20.61	20.87	20.77	0.66	ppb
Phosphorus	31-2	17.33	30.97	26.14	24.82	27.87	ppb
Potassium	39-2	1656.16	1660.07	1631.71	1649.31	0.93	ppb
Rhodium	103-1				92		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	0.66	1.01	0.48	0.72	37.59	ppb
Selenium	77-2	0.00	0.00	1.52	0.51	173.21	ppb
Selenium	78-2	1.31	-0.07	0.61	0.61	112.89	ppb
Silicon	28-1	4657.20	4668.17	4623.21	4649.53	0.50	ppb
Silver	107-1	0.22	0.17	0.18	0.19	13.13	ppb
Silver	109-1	0.21	0.17	0.17	0.19	12.45	ppb
Sodium	23-2	26450.02	26867.15	26252.40	26523.19	1.18	ppb
Strontium	86-1	178.83	179.74	179.08	179.22	0.26	ppb
Strontium	88-1	184.16	180.51	180.10	181.59	1.23	ppb
Sulfur	34-1	7686.65	7784.36	7616.21	7695.74	1.10	ppb
Terbium	159-1				94		%
Terbium	159-2				96		%
Thallium	203-1	0.83	0.96	0.93	0.91	7.77	ppb
Thallium	205-1	0.83	0.98	0.93	0.92	8.11	ppb
Tin	118-1	0.41	0.46	0.47	0.44	7.33	ppb
Titanium	47-1	1.04	1.06	1.08	1.06	1.84	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	1.19	ppb

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.36	0.28	0.31	0.32	11.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				100		%
Zinc	66-2	1.10	1.32	1.24	1.22	8.94	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	20.94	ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	162.94	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48079.47	48782.15	48598.64	48486.76	0.75	ppb
Antimony	121-1	473.06	486.17	481.69	480.31	1.39	ppb
Arsenic	75-2	489.27	496.76	491.92	492.65	0.77	ppb
Barium	135-1	2387.09	2471.85	2468.37	2442.44	1.96	ppb
Barium	137-1	2384.34	2473.36	2473.98	2443.89	2.11	ppb
Beryllium	9-1	500.20	508.77	504.51	504.49	0.85	ppb
Bismuth	209-1				79		%
Bismuth	209-2				79		%
Bromine	81-1						cps
Cadmium	108-1	464.99	470.71	475.56	470.42	1.12	ppb
Cadmium	106-1	469.23	477.38	480.38	475.66	1.21	ppb
Cadmium	111-1	461.07	479.17	471.31	470.52	1.93	ppb
Calcium	43-1	244367.88	248538.53	249690.61	247532.34	1.13	ppb
Calcium	44-1	248137.41	248499.70	249830.49	248822.53	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	499.63	511.16	497.11	502.63	1.49	ppb
Cobalt	59-2	494.15	494.24	496.84	495.07	0.31	ppb
Copper	63-2	4727.36	4821.39	4737.44	4762.06	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				89		%
Holmium	165-2				89		%
Indium	115-1				83		%
Indium	115-2				84		%
Iron	54-2	126518.19	128860.25	128979.79	128119.41	1.08	ppb
Iron	56-2	127864.16	129029.65	126459.21	127784.34	1.01	ppb
Iron	57-2	127191.12	128269.03	126638.52	127366.22	0.65	ppb
Krypton	83-1						cps
Lead	206-1	2493.91	2528.41	2563.15	2528.49	1.37	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2458.93	2529.13	2528.56	2505.54	1.61	ppb
Lead	208-1	2460.81	2515.02	2543.72	2506.51	1.68	ppb
Lithium	6-1				79		%
Magnesium	24-2	271637.66	271489.51	271876.60	271667.92	0.07	ppb
Manganese	55-2	4977.67	5009.16	5004.77	4997.20	0.34	ppb
Molybdenum	94-1	4883.75	5036.75	5048.66	4989.72	1.84	ppb
Molybdenum	95-1	4920.10	5016.75	4999.17	4978.67	1.03	ppb
Molybdenum	96-1	4935.39	5014.95	4933.49	4961.28	0.94	ppb
Molybdenum	97-1	4911.08	4950.96	4978.65	4946.90	0.69	ppb
Molybdenum	98-1	4930.43	5008.68	5037.98	4992.36	1.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	461.04	463.82	463.71	462.86	0.34	ppb
Phosphorus	31-2	9960.71	9687.45	9842.95	9830.37	1.39	ppb
Potassium	39-2	122970.55	124690.84	124420.45	124027.28	0.75	ppb
Rhodium	103-1				79		%
Rhodium	103-2				79		%
Scandium	45-1				87		%
Scandium	45-2				89		%
Selenium	82-1	472.24	478.93	480.24	477.14	0.90	ppb
Selenium	77-2	507.50	496.06	458.59	487.38	5.25	ppb
Selenium	78-2	496.71	482.11	488.61	489.14	1.50	ppb
Silicon	28-1	679.06	680.80	689.92	683.26	0.85	ppb
Silver	107-1	456.65	467.81	459.54	461.34	1.26	ppb
Silver	109-1	460.55	457.73	460.61	459.63	0.36	ppb
Sodium	23-2	256634.21	259230.10	256583.95	257482.75	0.59	ppb
Strontium	86-1	493.99	511.90	510.18	505.36	1.96	ppb
Strontium	88-1	491.94	499.79	493.37	495.03	0.84	ppb
Sulfur	34-1	9989.26	10183.80	10295.71	10156.26	1.53	ppb
Terbium	159-1				88		%
Terbium	159-2				88		%
Thallium	203-1	497.93	504.46	510.24	504.21	1.22	ppb
Thallium	205-1	501.04	505.44	507.03	504.51	0.62	ppb
Tin	118-1	478.72	489.96	485.41	484.70	1.17	ppb
Titanium	47-1	4887.97	4972.52	5004.80	4955.10	1.22	ppb
Uranium	238-1	501.06	518.00	517.54	512.20	1.88	ppb

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	493.65	499.31	492.62	495.19	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				88		%
Yttrium	89-2				89		%
Zinc	66-2	4788.62	4868.61	4738.11	4798.45	1.37	ppb
Zirconium	90-1	490.08	510.81	502.17	501.02	2.08	ppb
Zirconium	91-1	503.28	505.56	500.79	503.21	0.47	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.15	-0.40	-0.29	-0.28		ppb
Antimony	121-1	0.11	0.09	0.07	0.09	19.79	ppb
Arsenic	75-2	-0.01	0.02	0.05	0.02	147.31	ppb
Barium	135-1	0.13	0.13	0.09	0.12	16.72	ppb
Barium	137-1	0.10	0.12	0.10	0.10	9.03	ppb
Beryllium	9-1	0.10	0.10	0.08	0.09	9.42	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.10	0.03	0.06	69.82	ppb
Cadmium	106-1	-0.86	-0.77	-0.66	-0.76		ppb
Cadmium	111-1	0.01	0.01	0.01	0.01	24.15	ppb
Calcium	43-1	10.22	11.69	10.60	10.84	7.04	ppb
Calcium	44-1	11.36	13.32	11.01	11.90	10.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.03	0.02	0.03	22.06	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	30.10	ppb
Copper	63-2	0.05	0.05	0.08	0.06	35.09	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				91		%
Holmium	165-2				94		%
Indium	115-1				92		%
Indium	115-2				93		%
Iron	54-2	2.91	3.28	2.96	3.05	6.55	ppb
Iron	56-2	3.19	3.21	3.28	3.23	1.43	ppb
Iron	57-2	2.89	3.90	2.56	3.12	22.53	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.13	0.12	0.13	10.27	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.14	0.12	0.13	8.47	ppb
Lead	208-1	0.14	0.13	0.12	0.13	7.93	ppb
Lithium	6-1				86		%
Magnesium	24-2	4.99	4.31	4.31	4.53	8.66	ppb
Manganese	55-2	0.21	0.19	0.18	0.20	8.63	ppb
Molybdenum	94-1	0.21	0.21	0.18	0.20	9.26	ppb
Molybdenum	95-1	0.21	0.21	0.19	0.20	4.71	ppb
Molybdenum	96-1	0.22	0.23	0.19	0.21	9.60	ppb
Molybdenum	97-1	0.23	0.21	0.17	0.20	15.37	ppb
Molybdenum	98-1	0.20	0.22	0.18	0.20	9.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.01	-0.02	0.01	346.67	ppb
Phosphorus	31-2	-21.49	-22.61	-27.21	-23.77		ppb
Potassium	39-2	23.46	20.21	23.89	22.52	8.93	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				91		%
Scandium	45-2				92		%
Selenium	82-1	0.17	0.20	0.13	0.17	20.88	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.31	-0.31	-0.31	-0.31		ppb
Silicon	28-1	0.19	0.22	0.07	0.16	49.45	ppb
Silver	107-1	0.07	0.06	0.05	0.06	10.62	ppb
Silver	109-1	0.06	0.06	0.05	0.06	16.26	ppb
Sodium	23-2	44.33	45.37	42.97	44.23	2.72	ppb
Strontium	86-1	0.01	0.01	0.02	0.01	29.20	ppb
Strontium	88-1	0.01	0.02	0.01	0.01	4.71	ppb
Sulfur	34-1	-605.24	-581.73	-555.31	-580.76		ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.07	0.05	0.06	0.06	14.93	ppb
Thallium	205-1	0.06	0.06	0.05	0.06	8.01	ppb
Tin	118-1	0.02	0.02	0.02	0.02	12.81	ppb
Titanium	47-1	0.12	0.14	0.11	0.13	12.70	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	7.25	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.01	0.02	0.01	50.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				94		%
Zinc	66-2	0.24	0.23	0.37	0.28	27.50	ppb
Zirconium	90-1	0.03	0.03	0.02	0.02	16.65	ppb
Zirconium	91-1	0.03	0.02	0.01	0.02	34.29	ppb

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	120	167	134	20.79	cps
Antimony	121-1	50	40	47	46	11.18	cps
Arsenic	75-2	7	0	0	2	173.21	cps
Barium	135-1	157	140	130	142	9.47	cps
Barium	137-1	190	210	240	213	11.80	cps
Beryllium	9-1	302	249	306	286	11.26	cps
Bismuth	209-1	12094909	12247611	12306557	12216359	0.89	cps
Bismuth	209-2	4466009	4440207	4520393	4475536	0.91	cps
Bromine	81-1	6632	6495	7015	6714	4.02	cps
Cadmium	108-1	20	10	17	16	32.73	cps
Cadmium	106-1	8970	8643	8319	8644	3.76	cps
Cadmium	111-1	1807	1732	1666	1735	4.07	cps
Calcium	43-1	530	423	403	452	15.06	cps
Calcium	44-1	8699	8956	9343	9000	3.60	cps
Carbon	12-1	3170445	3129858	3115049	3138451	0.91	cps
Carbon	12-2	21946	22020	22320	22096	0.90	cps
Chlorine	35-1	67835	69395	68605	68611	1.14	cps
Chlorine	35-2	277	310	263	283	8.48	cps
Chromium	52-2	553	567	480	533	8.75	cps
Cobalt	59-2	87	110	93	97	12.43	cps
Copper	63-2	4401	4571	4337	4436	2.72	cps
Dysprosium	156-1	10	20	17	16	32.73	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	100	117	127	114	11.77	cps
Erbium	164-2	30	27	27	28	6.92	cps
Gadolinium	160-1	107	83	100	97	12.44	cps
Gadolinium	160-2	13	10	17	13	25.01	cps
Holmium	165-1	18983627	19154872	18888527	19009008	0.71	cps
Holmium	165-2	6012545	6084363	6070731	6055880	0.63	cps
Indium	115-1	14542061	14571384	14624657	14579367	0.29	cps
Indium	115-2	1403656	1416773	1408976	1409802	0.47	cps
Iron	54-2	300	230	230	253	15.96	cps
Iron	56-2	2994	3380	3354	3243	6.66	cps
Iron	57-2	87	73	90	83	10.59	cps
Krypton	83-1	187	183	173	181	3.83	cps
Lead	206-1	1440	1463	1420	1441	1.51	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1270	1257	1293	1273	1.46	cps
Lead	208-1	5751	5824	5537	5704	2.61	cps
Lithium	6-1	8862166	8757988	8627862	8749339	1.34	cps
Magnesium	24-2	670	613	723	669	8.22	cps
Manganese	55-2	63	80	57	67	18.03	cps
Molybdenum	94-1	370	340	277	329	14.49	cps
Molybdenum	95-1	143	110	93	116	22.04	cps
Molybdenum	96-1	143	200	160	168	17.36	cps
Molybdenum	97-1	87	67	60	71	19.52	cps
Molybdenum	98-1	183	157	180	173	8.38	cps
Neodymium	150-1	10	0	20	10	100.00	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1163	1213	1300	1226	5.64	cps
Phosphorus	31-2	53	47	43	48	10.66	cps
Potassium	39-2	7142	7002	6748	6964	2.86	cps
Rhodium	103-1	13450974	13579700	13374297	13468324	0.77	cps
Rhodium	103-2	5000499	4942705	4948253	4963819	0.64	cps
Scandium	45-1	10294994	10339905	10287148	10307349	0.28	cps
Scandium	45-2	190018	188015	188196	188743	0.59	cps
Selenium	82-1	60	-23	47	28	161.18	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	0	3	4	114.60	cps
Silicon	28-1	432658	428344	428959	429987	0.54	cps
Silver	107-1	180	183	203	189	6.68	cps
Silver	109-1	80	77	83	80	4.16	cps
Sodium	23-2	17741	17534	17454	17576	0.84	cps
Strontium	86-1	330	357	433	373	14.37	cps
Strontium	88-1	297	223	267	262	14.06	cps
Sulfur	34-1	469806	473339	467821	470322	0.59	cps
Terbium	159-1	19392564	19496917	19355085	19414855	0.38	cps
Terbium	159-2	6048669	5973503	5967462	5996545	0.75	cps
Thallium	203-1	300	240	243	261	12.91	cps
Thallium	205-1	600	623	577	600	3.89	cps
Tin	118-1	1513	1390	1240	1381	9.91	cps
Titanium	47-1	180	177	157	171	7.37	cps
Uranium	238-1	170	110	160	147	21.92	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:32:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	3	10	6	69.34	cps
Ytterbium	172-1	123	103	117	114	8.90	cps
Ytterbium	172-2	27	33	23	28	18.33	cps
Ytterbium	176-1	2520	2757	2527	2601	5.18	cps
Ytterbium	176-2	413	387	450	417	7.63	cps
Yttrium	89-1	26672110	26482279	26387989	26514126	0.55	cps
Yttrium	89-2	1813428	1818436	1834184	1822016	0.59	cps
Zinc	66-2	367	307	317	330	9.74	cps
Zirconium	90-1	873	843	810	842	3.76	cps
Zirconium	91-1	223	157	217	199	18.46	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1603	1623	1493	1573	4.45	cps
Antimony	121-1	33324	34587	34036	33982	1.86	cps
Arsenic	75-2	310	290	290	297	3.89	cps
Barium	135-1	44309	42761	44132	43734	1.94	cps
Barium	137-1	75767	76203	75653	75874	0.38	cps
Beryllium	9-1	7075	7065	7143	7094	0.60	cps
Bismuth	209-1	12412196	12206938	12374904	12331346	0.89	cps
Bismuth	209-2	4607695	4557273	4716817	4627261	1.76	cps
Bromine	81-1	6878	6882	6855	6872	0.21	cps
Cadmium	108-1	327	447	430	401	16.21	cps
Cadmium	106-1	9267	9270	8846	9128	2.67	cps
Cadmium	111-1	6396	6242	6042	6227	2.84	cps
Calcium	43-1	32664	32887	32751	32767	0.34	cps
Calcium	44-1	527753	526308	522995	525685	0.46	cps
Carbon	12-1	3306370	3253807	3215475	3258551	1.40	cps
Carbon	12-2	23282	23035	22901	23073	0.84	cps
Chlorine	35-1	68554	70266	69696	69506	1.25	cps
Chlorine	35-2	267	263	277	269	2.58	cps
Chromium	52-2	7879	7665	7769	7771	1.37	cps
Cobalt	59-2	7062	7292	7299	7217	1.87	cps
Copper	63-2	15112	15358	15172	15214	0.85	cps
Dysprosium	156-1	27	33	33	31	12.36	cps
Dysprosium	156-2	10	3	7	7	50.03	cps
Erbium	164-1	97	80	87	88	9.56	cps
Erbium	164-2	50	37	40	42	16.43	cps
Gadolinium	160-1	87	90	93	90	3.70	cps
Gadolinium	160-2	33	20	17	23	37.78	cps
Holmium	165-1	19156433	19308724	18895267	19120141	1.09	cps
Holmium	165-2	6155885	6166820	6345607	6222771	1.71	cps
Indium	115-1	14702041	14649019	14591577	14647546	0.38	cps
Indium	115-2	1443147	1425281	1494973	1454467	2.49	cps
Iron	54-2	8383	8443	8429	8418	0.37	cps
Iron	56-2	146493	149931	147230	147885	1.22	cps
Iron	57-2	3711	3654	3580	3648	1.79	cps
Krypton	83-1	173	177	217	189	12.77	cps
Lead	206-1	16007	16410	15910	16109	1.65	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13974	14705	14458	14379	2.59	cps
Lead	208-1	65045	65839	64871	65251	0.79	cps
Lithium	6-1	8753690	8744957	8767274	8755307	0.13	cps
Magnesium	24-2	139822	140492	139412	139909	0.39	cps
Manganese	55-2	1690	1753	1630	1691	3.65	cps
Molybdenum	94-1	36364	35609	36688	36220	1.53	cps
Molybdenum	95-1	44344	43852	44367	44188	0.66	cps
Molybdenum	96-1	48943	48661	48625	48743	0.36	cps
Molybdenum	97-1	27551	27210	27377	27379	0.62	cps
Molybdenum	98-1	70859	71278	71771	71303	0.64	cps
Neodymium	150-1	20	13	30	21	39.75	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	3280	3184	3044	3169	3.76	cps
Phosphorus	31-2	170	180	167	172	4.03	cps
Potassium	39-2	81532	80721	80985	81079	0.51	cps
Rhodium	103-1	13615745	13585366	13440216	13547109	0.69	cps
Rhodium	103-2	5059046	4963043	5214996	5079028	2.50	cps
Scandium	45-1	10269984	10448309	10226504	10314932	1.14	cps
Scandium	45-2	194461	189209	199818	194496	2.73	cps
Selenium	82-1	1433	1400	1377	1403	2.03	cps
Selenium	77-2	33	23	30	29	17.63	cps
Selenium	78-2	100	93	93	96	4.03	cps
Silicon	28-1	516909	518607	522999	519505	0.61	cps
Silver	107-1	22301	23056	22772	22710	1.68	cps
Silver	109-1	21684	21360	21824	21623	1.10	cps
Sodium	23-2	285779	286121	282565	284822	0.69	cps
Strontium	86-1	6325	6538	6125	6329	3.27	cps
Strontium	88-1	51545	52251	51782	51859	0.69	cps
Sulfur	34-1	470880	472952	474955	472929	0.43	cps
Terbium	159-1	19257732	19707507	19375865	19447035	1.20	cps
Terbium	159-2	6131207	6011423	6302397	6148342	2.38	cps
Thallium	203-1	18870	18720	18974	18855	0.68	cps
Thallium	205-1	43881	44937	44235	44351	1.21	cps
Tin	118-1	75309	73901	73710	74307	1.17	cps
Titanium	47-1	14204	14054	14357	14205	1.07	cps
Uranium	238-1	61200	61317	60875	61130	0.37	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:38:57	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13974	14261	14057	14097	1.05	cps
Ytterbium	172-1	130	100	147	126	18.84	cps
Ytterbium	172-2	30	33	53	39	32.45	cps
Ytterbium	176-1	2580	2637	2714	2644	2.53	cps
Ytterbium	176-2	360	390	437	396	9.77	cps
Yttrium	89-1	26680349	26707931	26342478	26576919	0.77	cps
Yttrium	89-2	1880966	1824363	1924879	1876736	2.69	cps
Zinc	66-2	3057	3140	2954	3050	3.07	cps
Zirconium	90-1	31773	31609	31599	31660	0.31	cps
Zirconium	91-1	6762	7049	6545	6785	3.72	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	75179	74874	75361	75138	0.33	cps
Antimony	121-1	819280	828338	831945	826521	0.79	cps
Arsenic	75-2	14644	14708	15158	14837	1.89	cps
Barium	135-1	1037081	1042900	1044571	1041517	0.38	cps
Barium	137-1	1830924	1871952	1851918	1851598	1.11	cps
Beryllium	9-1	330110	330694	329475	330093	0.18	cps
Bismuth	209-1	12422926	12318225	12159562	12300238	1.08	cps
Bismuth	209-2	4516391	4472001	4558850	4515748	0.96	cps
Bromine	81-1	6845	7125	7172	7047	2.51	cps
Cadmium	108-1	18679	18115	18452	18416	1.54	cps
Cadmium	106-1	34493	34135	33698	34109	1.17	cps
Cadmium	111-1	208297	211629	214554	211493	1.48	cps
Calcium	43-1	302954	305363	307896	305404	0.81	cps
Calcium	44-1	4939043	4947195	4908070	4931436	0.42	cps
Carbon	12-1	3350888	3260051	3232820	3281253	1.88	cps
Carbon	12-2	23612	23569	22754	23312	2.07	cps
Chlorine	35-1	67801	69084	67111	67999	1.47	cps
Chlorine	35-2	203	267	313	261	21.14	cps
Chromium	52-2	179426	180109	179515	179683	0.21	cps
Cobalt	59-2	336960	337520	337889	337456	0.14	cps
Copper	63-2	2596588	2577249	2600306	2591381	0.48	cps
Dysprosium	156-1	30	40	63	44	38.48	cps
Dysprosium	156-2	10	3	13	9	57.30	cps
Erbium	164-1	87	137	160	128	29.32	cps
Erbium	164-2	53	47	43	48	10.66	cps
Gadolinium	160-1	113	80	83	92	19.91	cps
Gadolinium	160-2	17	20	13	17	20.01	cps
Holmium	165-1	19289808	19526216	19114778	19310267	1.07	cps
Holmium	165-2	6201769	6141681	6160873	6168107	0.50	cps
Indium	115-1	14744604	14698002	14964677	14802428	0.96	cps
Indium	115-2	1425579	1427228	1431533	1428113	0.22	cps
Iron	54-2	371270	373429	372658	372452	0.29	cps
Iron	56-2	6722159	6804800	6865040	6797333	1.06	cps
Iron	57-2	169210	169656	169771	169546	0.17	cps
Krypton	83-1	230	197	247	224	11.34	cps
Lead	206-1	3705402	3680594	3707330	3697775	0.40	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3200361	3166593	3181045	3182666	0.53	cps
Lead	208-1	14627183	14636141	14441500	14568275	0.75	cps
Lithium	6-1	8724486	8670743	8714981	8703404	0.33	cps
Magnesium	24-2	1320950	1358947	1325044	1334981	1.56	cps
Manganese	55-2	763540	767540	771771	767617	0.54	cps
Molybdenum	94-1	2950446	3009228	2966961	2975545	1.02	cps
Molybdenum	95-1	4304843	4373205	4280076	4319375	1.12	cps
Molybdenum	96-1	4740066	4707941	4759872	4735960	0.55	cps
Molybdenum	97-1	2666334	2635910	2689753	2663999	1.01	cps
Molybdenum	98-1	6921034	6918214	6961742	6933663	0.35	cps
Neodymium	150-1	93	123	73	97	26.04	cps
Neodymium	150-2	7	10	10	9	21.63	cps
Nickel	60-2	95216	94363	94383	94654	0.51	cps
Phosphorus	31-2	3350	3520	3357	3409	2.82	cps
Potassium	39-2	362798	367952	366161	365637	0.72	cps
Rhodium	103-1	13342841	13422072	13401982	13388965	0.31	cps
Rhodium	103-2	4996018	4930400	4938154	4954857	0.72	cps
Scandium	45-1	10457684	10209705	10522090	10396493	1.59	cps
Scandium	45-2	189609	190200	190515	190108	0.24	cps
Selenium	82-1	14197	13684	14111	13997	1.97	cps
Selenium	77-2	247	213	213	224	8.57	cps
Selenium	78-2	807	777	737	773	4.54	cps
Silicon	28-1	2671024	2753824	2724906	2716585	1.55	cps
Silver	107-1	1128522	1136753	1147776	1137684	0.85	cps
Silver	109-1	1086741	1087511	1090059	1088104	0.16	cps
Sodium	23-2	2543074	2603823	2600794	2582564	1.33	cps
Strontium	86-1	301698	303409	304196	303101	0.42	cps
Strontium	88-1	2649930	2667736	2653384	2657017	0.36	cps
Sulfur	34-1	571491	564950	562490	566310	0.82	cps
Terbium	159-1	19644007	19471078	19919639	19678241	1.15	cps
Terbium	159-2	6127503	6026314	6061680	6071832	0.85	cps
Thallium	203-1	913467	920871	924990	919776	0.63	cps
Thallium	205-1	2229632	2244337	2215764	2229911	0.64	cps
Tin	118-1	711908	718299	725425	718544	0.94	cps
Titanium	47-1	1365713	1382799	1365532	1371348	0.72	cps
Uranium	238-1	3039105	3029247	3032685	3033679	0.16	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:42:17	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	136338	136800	137325	136821	0.36	cps
Ytterbium	172-1	127	123	80	110	23.67	cps
Ytterbium	172-2	37	50	67	51	29.41	cps
Ytterbium	176-1	6462	6355	6465	6427	0.97	cps
Ytterbium	176-2	1687	1660	1703	1683	1.30	cps
Yttrium	89-1	27153365	26715365	26636484	26835072	1.04	cps
Yttrium	89-2	1835232	1864933	1832441	1844202	0.98	cps
Zinc	66-2	266172	266590	266431	266397	0.08	cps
Zirconium	90-1	1505018	1528735	1501296	1511683	0.98	cps
Zirconium	91-1	326193	325682	333012	328295	1.25	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	189429	188430	188285	188715	0.33	cps
Antimony	121-1	2120821	2167601	2153876	2147433	1.12	cps
Arsenic	75-2	38228	38262	39084	38525	1.26	cps
Barium	135-1	2700936	2727522	2698857	2709105	0.59	cps
Barium	137-1	4602572	4622555	4695311	4640146	1.05	cps
Beryllium	9-1	812843	811803	814073	812906	0.14	cps
Bismuth	209-1	12176898	12257461	12211414	12215258	0.33	cps
Bismuth	209-2	4428163	4428321	4462343	4439609	0.44	cps
Bromine	81-1	7005	7315	7405	7242	2.90	cps
Cadmium	108-1	46047	46582	46314	46314	0.58	cps
Cadmium	106-1	71400	72151	72040	71864	0.56	cps
Cadmium	111-1	532032	532532	537432	533999	0.56	cps
Calcium	43-1	759281	767728	769988	765666	0.74	cps
Calcium	44-1	12454178	12358326	12267383	12359962	0.76	cps
Carbon	12-1	3510659	3438603	3458476	3469246	1.07	cps
Carbon	12-2	24774	25112	25055	24980	0.72	cps
Chlorine	35-1	72085	73140	73093	72773	0.82	cps
Chlorine	35-2	297	273	263	278	6.16	cps
Chromium	52-2	451855	449826	450966	450882	0.23	cps
Cobalt	59-2	844497	849499	852106	848701	0.46	cps
Copper	63-2	6412073	6416642	6443071	6423929	0.26	cps
Dysprosium	156-1	103	73	50	76	35.38	cps
Dysprosium	156-2	17	10	20	16	32.73	cps
Erbium	164-1	120	133	167	140	17.17	cps
Erbium	164-2	20	23	33	26	27.15	cps
Gadolinium	160-1	150	117	133	133	12.50	cps
Gadolinium	160-2	27	7	23	19	56.72	cps
Holmium	165-1	19411005	19224241	19419251	19351499	0.57	cps
Holmium	165-2	6313891	6087189	6264831	6221970	1.92	cps
Indium	115-1	14486669	14740034	14745487	14657396	1.01	cps
Indium	115-2	1427986	1410235	1429810	1422677	0.76	cps
Iron	54-2	933382	942650	943127	939720	0.58	cps
Iron	56-2	16893089	17321635	17037436	17084053	1.28	cps
Iron	57-2	421505	425378	423760	423548	0.46	cps
Krypton	83-1	263	213	197	224	15.46	cps
Lead	206-1	9029261	9247628	9039589	9105492	1.35	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7930049	7904937	7871091	7902026	0.37	cps
Lead	208-1	36228447	36561691	36305593	36365243	0.48	cps
Lithium	6-1	8487511	8483191	8520074	8496926	0.24	cps
Magnesium	24-2	3332998	3392668	3345157	3356941	0.94	cps
Manganese	55-2	2003172	1995725	1999649	1999515	0.19	cps
Molybdenum	94-1	7452116	7429939	7470135	7450730	0.27	cps
Molybdenum	95-1	10823722	10851106	10858794	10844541	0.17	cps
Molybdenum	96-1	11847855	11922733	11941420	11904003	0.42	cps
Molybdenum	97-1	6761753	6716378	6712347	6730159	0.41	cps
Molybdenum	98-1	17624145	17440748	17842460	17635784	1.14	cps
Neodymium	150-1	233	270	250	251	7.31	cps
Neodymium	150-2	0	10	10	7	86.60	cps
Nickel	60-2	233471	233572	235674	234239	0.53	cps
Phosphorus	31-2	8656	8566	8743	8655	1.02	cps
Potassium	39-2	911211	918513	913975	914566	0.40	cps
Rhodium	103-1	13519551	13245571	13539676	13434933	1.22	cps
Rhodium	103-2	4881497	4895009	4985867	4920791	1.15	cps
Scandium	45-1	10432534	10292089	10283569	10336064	0.81	cps
Scandium	45-2	191964	190127	190366	190819	0.52	cps
Selenium	82-1	35031	34570	35094	34898	0.82	cps
Selenium	77-2	600	627	570	599	4.73	cps
Selenium	78-2	1917	2034	2000	1983	3.03	cps
Silicon	28-1	5536891	5614510	5562838	5571413	0.71	cps
Silver	107-1	2856114	2920562	2926996	2901224	1.35	cps
Silver	109-1	2800506	2794206	2772246	2788986	0.53	cps
Sodium	23-2	6392754	6383484	6483583	6419941	0.86	cps
Strontium	86-1	754250	762112	774861	763741	1.36	cps
Strontium	88-1	6576848	6561312	6686202	6608121	1.03	cps
Sulfur	34-1	707241	706090	703025	705452	0.31	cps
Terbium	159-1	19768595	19700073	19416155	19628274	0.95	cps
Terbium	159-2	6103195	6005109	6132612	6080306	1.10	cps
Thallium	203-1	2390624	2361500	2370205	2374110	0.63	cps
Thallium	205-1	5493679	5579023	5545737	5539480	0.78	cps
Tin	118-1	1785972	1827895	1829683	1814517	1.36	cps
Titanium	47-1	3387192	3403693	3421087	3403991	0.50	cps
Uranium	238-1	7460126	7394860	7657768	7504251	1.82	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:45:23	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	345043	345848	345931	345608	0.14	cps
Ytterbium	172-1	157	127	130	138	11.93	cps
Ytterbium	172-2	40	40	50	43	13.32	cps
Ytterbium	176-1	12513	12289	12533	12445	1.09	cps
Ytterbium	176-2	3897	3834	3717	3816	2.39	cps
Yttrium	89-1	26336919	26725003	26884506	26648809	1.06	cps
Yttrium	89-2	1853515	1839217	1861297	1851343	0.60	cps
Zinc	66-2	664711	671269	672292	669424	0.61	cps
Zirconium	90-1	3763213	3795648	3735762	3764874	0.80	cps
Zirconium	91-1	817922	824526	825631	822693	0.51	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	372526	374669	370713	372636	0.53	cps
Antimony	121-1	4233539	4215715	4252571	4233942	0.44	cps
Arsenic	75-2	76898	75832	77002	76578	0.85	cps
Barium	135-1	5245980	5277836	5329269	5284362	0.80	cps
Barium	137-1	9087573	9087467	9235376	9136806	0.93	cps
Beryllium	9-1	1593299	1602686	1603800	1599928	0.36	cps
Bismuth	209-1	12119203	12013388	12009284	12047291	0.52	cps
Bismuth	209-2	4485090	4497784	4383852	4455575	1.40	cps
Bromine	81-1	7519	7779	7645	7648	1.70	cps
Cadmium	108-1	90736	89374	91132	90414	1.02	cps
Cadmium	106-1	132381	132172	134569	133041	1.00	cps
Cadmium	111-1	1034543	1045914	1053635	1044697	0.92	cps
Calcium	43-1	1529649	1565645	1559388	1551561	1.24	cps
Calcium	44-1	24677515	24726130	24949129	24784258	0.58	cps
Carbon	12-1	3580864	3574867	3588644	3581458	0.19	cps
Carbon	12-2	26183	25512	26357	26018	1.71	cps
Chlorine	35-1	73777	74946	76400	75041	1.75	cps
Chlorine	35-2	233	300	337	290	18.06	cps
Chromium	52-2	894118	891951	900110	895393	0.47	cps
Cobalt	59-2	1690660	1670000	1693194	1684618	0.76	cps
Copper	63-2	12756085	12587524	12615603	12653071	0.71	cps
Dysprosium	156-1	87	127	127	113	20.38	cps
Dysprosium	156-2	13	13	7	11	34.61	cps
Erbium	164-1	163	180	170	171	4.90	cps
Erbium	164-2	43	47	60	50	17.64	cps
Gadolinium	160-1	133	137	193	154	21.83	cps
Gadolinium	160-2	30	40	20	30	33.33	cps
Holmium	165-1	19562709	19575088	19436699	19524832	0.39	cps
Holmium	165-2	6305080	6292797	6329684	6309187	0.30	cps
Indium	115-1	14698686	14658625	14364545	14573952	1.25	cps
Indium	115-2	1420843	1434690	1416704	1424079	0.66	cps
Iron	54-2	1871874	1854332	1886308	1870838	0.86	cps
Iron	56-2	34188788	34174955	34095522	34153088	0.15	cps
Iron	57-2	843664	845260	847956	845627	0.26	cps
Krypton	83-1	210	190	187	196	6.45	cps
Lead	206-1	17992263	17961062	18134340	18029222	0.51	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15424226	15602636	15600049	15542304	0.66	cps
Lead	208-1	71079726	71846284	71925902	71617304	0.65	cps
Lithium	6-1	8509056	8342058	8452841	8434652	1.01	cps
Magnesium	24-2	6510439	6491424	6508578	6503480	0.16	cps
Manganese	55-2	3984526	3888659	3955140	3942775	1.25	cps
Molybdenum	94-1	15154271	14899993	14877525	14977263	1.03	cps
Molybdenum	95-1	21894914	21544451	21574011	21671125	0.90	cps
Molybdenum	96-1	23590598	23729695	23385029	23568440	0.74	cps
Molybdenum	97-1	13285674	13431211	13209014	13308633	0.85	cps
Molybdenum	98-1	35077199	34826342	35006191	34969911	0.37	cps
Neodymium	150-1	483	470	460	471	2.49	cps
Neodymium	150-2	30	20	13	21	39.75	cps
Nickel	60-2	459663	455741	461000	458801	0.60	cps
Phosphorus	31-2	16817	17330	16880	17009	1.65	cps
Potassium	39-2	1817806	1808917	1854637	1827120	1.33	cps
Rhodium	103-1	13258605	13305389	13242060	13268685	0.25	cps
Rhodium	103-2	4929297	4991047	4930208	4950184	0.71	cps
Scandium	45-1	10488182	10436014	10572993	10499063	0.66	cps
Scandium	45-2	192902	194886	193061	193616	0.57	cps
Selenium	82-1	69137	69271	70246	69551	0.87	cps
Selenium	77-2	1137	1137	1207	1160	3.48	cps
Selenium	78-2	3874	3834	3771	3826	1.36	cps
Silicon	28-1	11740625	11836861	11909653	11829046	0.72	cps
Silver	107-1	5704661	5716122	5764485	5728423	0.55	cps
Silver	109-1	5437169	5386130	5381960	5401753	0.57	cps
Sodium	23-2	12758881	12854430	12746896	12786736	0.46	cps
Strontium	86-1	1563454	1551873	1589700	1568342	1.24	cps
Strontium	88-1	13031059	13094071	13363476	13162869	1.34	cps
Sulfur	34-1	932059	925463	930137	929220	0.37	cps
Terbium	159-1	19919657	19967908	19814325	19900630	0.39	cps
Terbium	159-2	6231775	6212194	6052683	6165551	1.59	cps
Thallium	203-1	4704920	4632815	4699760	4679165	0.86	cps
Thallium	205-1	10920534	10814160	10943275	10892656	0.63	cps
Tin	118-1	3630191	3612231	3591183	3611202	0.54	cps
Titanium	47-1	6687721	6746256	6765157	6733045	0.60	cps
Uranium	238-1	14721984	15079316	14753896	14851732	1.33	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:48:21	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	690986	690604	690901	690830	0.03	cps
Ytterbium	172-1	170	183	137	163	14.72	cps
Ytterbium	172-2	103	60	57	73	35.50	cps
Ytterbium	176-1	22433	23057	23230	22907	1.83	cps
Ytterbium	176-2	6999	7305	6975	7093	2.60	cps
Yttrium	89-1	27270319	27056692	27457389	27261467	0.74	cps
Yttrium	89-2	1851688	1886968	1900264	1879640	1.34	cps
Zinc	66-2	1321144	1321264	1321240	1321216	0.00	cps
Zirconium	90-1	7575875	7485274	7575859	7545669	0.69	cps
Zirconium	91-1	1693519	1710462	1711026	1705002	0.58	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	729288	735737	726994	730673	0.62	cps
Antimony	121-1	8328629	8283582	8312139	8308117	0.27	cps
Arsenic	75-2	149998	149988	149150	149712	0.33	cps
Barium	135-1	10495385	10530414	10554220	10526673	0.28	cps
Barium	137-1	18085587	18206658	18154773	18149006	0.33	cps
Beryllium	9-1	3115771	3053589	3083409	3084256	1.01	cps
Bismuth	209-1	12171465	11755087	11931535	11952696	1.75	cps
Bismuth	209-2	4335973	4341295	4281570	4319613	0.77	cps
Bromine	81-1	7652	7959	7816	7809	1.97	cps
Cadmium	108-1	173808	173196	175947	174317	0.83	cps
Cadmium	106-1	252660	252359	250814	251944	0.39	cps
Cadmium	111-1	2086904	2070232	2107846	2088327	0.90	cps
Calcium	43-1	3073189	3027596	3016212	3038999	0.99	cps
Calcium	44-1	48880608	49286244	48699428	48955426	0.61	cps
Carbon	12-1	3925926	3877104	3933863	3912298	0.79	cps
Carbon	12-2	28608	29556	29463	29209	1.79	cps
Chlorine	35-1	85621	87341	87811	86924	1.33	cps
Chlorine	35-2	397	343	393	378	7.91	cps
Chromium	52-2	1835940	1800726	1780640	1805769	1.55	cps
Cobalt	59-2	3287782	3326551	3360132	3324822	1.09	cps
Copper	63-2	24371168	24440305	24421748	24411074	0.15	cps
Dysprosium	156-1	183	203	257	214	17.68	cps
Dysprosium	156-2	23	17	37	26	39.85	cps
Erbium	164-1	160	203	187	183	11.92	cps
Erbium	164-2	57	70	80	69	16.99	cps
Gadolinium	160-1	150	157	157	154	2.49	cps
Gadolinium	160-2	47	50	50	49	3.93	cps
Holmium	165-1	19453688	19333978	19657441	19481702	0.84	cps
Holmium	165-2	6397013	6300518	6272330	6323287	1.03	cps
Indium	115-1	14583159	14367542	14534013	14494905	0.78	cps
Indium	115-2	1403265	1405197	1406513	1404992	0.12	cps
Iron	54-2	3700322	3673714	3674316	3682784	0.41	cps
Iron	56-2	66557397	66286054	66375602	66406351	0.21	cps
Iron	57-2	1706250	1680599	1676281	1687710	0.96	cps
Krypton	83-1	267	230	307	268	14.32	cps
Lead	206-1	34722064	35582081	35135999	35146715	1.22	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29975268	30309602	30357415	30214095	0.69	cps
Lead	208-1	139501136	140006467	139589469	139699024	0.19	cps
Lithium	6-1	8474490	8428844	8465382	8456239	0.29	cps
Magnesium	24-2	12924032	12687024	12877222	12829426	0.98	cps
Manganese	55-2	7579123	7596517	7522942	7566194	0.51	cps
Molybdenum	94-1	29694166	29533595	29825655	29684472	0.49	cps
Molybdenum	95-1	43002169	43113866	43502347	43206127	0.61	cps
Molybdenum	96-1	47312806	46821991	47092931	47075909	0.52	cps
Molybdenum	97-1	26973406	26570632	26476469	26673502	0.99	cps
Molybdenum	98-1	69986739	69706582	69760054	69817792	0.21	cps
Neodymium	150-1	890	907	850	882	3.30	cps
Neodymium	150-2	33	43	23	33	30.00	cps
Nickel	60-2	881046	883062	892607	885572	0.70	cps
Phosphorus	31-2	33596	33566	33195	33452	0.67	cps
Potassium	39-2	3625140	3693467	3642243	3653617	0.97	cps
Rhodium	103-1	13331023	13008051	13057564	13132213	1.32	cps
Rhodium	103-2	4873639	4867163	4954974	4898592	1.00	cps
Scandium	45-1	10688822	10507269	10594972	10597021	0.86	cps
Scandium	45-2	193838	194835	193358	194011	0.39	cps
Selenium	82-1	133531	134624	135510	134555	0.74	cps
Selenium	77-2	2440	2334	2330	2368	2.64	cps
Selenium	78-2	7439	7799	7439	7559	2.75	cps
Silicon	28-1	18268452	18069989	17888988	18075809	1.05	cps
Silver	107-1	11117917	11134988	11205925	11152943	0.42	cps
Silver	109-1	10510361	10435522	10601514	10515799	0.79	cps
Sodium	23-2	25311556	25080758	24939164	25110493	0.75	cps
Strontium	86-1	3066995	3093999	3053759	3071585	0.67	cps
Strontium	88-1	26395036	26290271	26303971	26329760	0.22	cps
Sulfur	34-1	1219701	1214209	1205077	1212996	0.61	cps
Terbium	159-1	20136739	19925387	19978642	20013589	0.55	cps
Terbium	159-2	6134236	6130586	6221702	6162175	0.84	cps
Thallium	203-1	8977309	9100898	9095933	9058046	0.77	cps
Thallium	205-1	21375089	21197863	21213310	21262087	0.46	cps
Tin	118-1	7131946	7104456	7035065	7090489	0.70	cps
Titanium	47-1	13567015	13347662	13392627	13435768	0.86	cps
Uranium	238-1	29416844	29243610	29671396	29443950	0.73	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:51:12	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1417660	1382557	1347475	1382564	2.54	cps
Ytterbium	172-1	200	227	193	207	8.53	cps
Ytterbium	172-2	80	70	97	82	16.39	cps
Ytterbium	176-1	42127	42318	42468	42304	0.40	cps
Ytterbium	176-2	13680	13660	13837	13726	0.71	cps
Yttrium	89-1	27158564	27099815	27181176	27146518	0.15	cps
Yttrium	89-2	1918387	1935414	1910678	1921493	0.66	cps
Zinc	66-2	2590245	2647959	2612824	2617009	1.11	cps
Zirconium	90-1	14921500	14883919	15031801	14945740	0.51	cps
Zirconium	91-1	3346436	3379752	3410192	3378793	0.94	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1490726	1486879	1450070	1475891	1.52	cps
Antimony	121-1	16293981	16504256	16455904	16418047	0.67	cps
Arsenic	75-2	296001	295691	300215	297302	0.85	cps
Barium	135-1	21098492	20996846	20714444	20936594	0.95	cps
Barium	137-1	36209861	36085149	36580640	36291883	0.71	cps
Beryllium	9-1	5965118	5957239	5970188	5964182	0.11	cps
Bismuth	209-1	11508023	11764819	11624352	11632398	1.11	cps
Bismuth	209-2	4280604	4292391	4328640	4300545	0.58	cps
Bromine	81-1	7766	8092	8076	7978	2.31	cps
Cadmium	108-1	341567	342868	345429	343288	0.57	cps
Cadmium	106-1	484145	484946	484907	484666	0.09	cps
Cadmium	111-1	3960051	4035852	4024370	4006758	1.02	cps
Calcium	43-1	5978213	5994863	6026097	5999724	0.41	cps
Calcium	44-1	97130419	97213115	96497172	96946902	0.40	cps
Carbon	12-1	4464580	4670769	4757658	4631002	3.25	cps
Carbon	12-2	36345	35987	36869	36400	1.22	cps
Chlorine	35-1	109574	111491	113675	111580	1.84	cps
Chlorine	35-2	470	563	447	493	12.51	cps
Chromium	52-2	3558387	3609438	3558418	3575414	0.82	cps
Cobalt	59-2	6478321	6353260	6365930	6399170	1.08	cps
Copper	63-2	47481066	46952743	46703799	47045869	0.84	cps
Dysprosium	156-1	433	447	347	409	13.28	cps
Dysprosium	156-2	90	50	57	66	32.69	cps
Erbium	164-1	250	283	317	283	11.77	cps
Erbium	164-2	97	117	87	100	15.27	cps
Gadolinium	160-1	253	293	283	277	7.52	cps
Gadolinium	160-2	70	67	90	76	16.70	cps
Holmium	165-1	19613951	19464469	20014772	19697731	1.44	cps
Holmium	165-2	6353587	6311508	6499088	6388061	1.54	cps
Indium	115-1	14217488	14417635	14357449	14330857	0.72	cps
Indium	115-2	1382687	1381210	1387822	1383906	0.25	cps
Iron	54-2	7177446	7253610	7241740	7224265	0.57	cps
Iron	56-2	131634571	130415771	129838358	130629567	0.70	cps
Iron	57-2	3325160	3316309	3340721	3327396	0.37	cps
Krypton	83-1	287	247	343	292	16.62	cps
Lead	206-1	68583766	68359382	68879232	68607460	0.38	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	59211624	58495239	59687681	59131515	1.02	cps
Lead	208-1	273317971	274037436	275695451	274350286	0.44	cps
Lithium	6-1	8337864	8312500	8307555	8319306	0.20	cps
Magnesium	24-2	25342824	25540198	25495323	25459448	0.41	cps
Manganese	55-2	15165324	15332174	15085619	15194372	0.83	cps
Molybdenum	94-1	59610529	59372422	59556881	59513277	0.21	cps
Molybdenum	95-1	86504415	86063855	86533679	86367316	0.30	cps
Molybdenum	96-1	94125769	95067172	95946799	95046580	0.96	cps
Molybdenum	97-1	53273154	53872753	53270828	53472245	0.65	cps
Molybdenum	98-1	140909278	140968025	140367328	140748210	0.24	cps
Neodymium	150-1	1763	1830	1777	1790	1.97	cps
Neodymium	150-2	60	27	47	44	37.74	cps
Nickel	60-2	1814361	1801071	1796930	1804121	0.50	cps
Phosphorus	31-2	66069	65798	65952	65940	0.21	cps
Potassium	39-2	7229762	7142012	7166680	7179484	0.63	cps
Rhodium	103-1	12864969	13049135	12996129	12970078	0.73	cps
Rhodium	103-2	4691382	4724900	4849642	4755308	1.75	cps
Scandium	45-1	10526173	10542749	10448730	10505884	0.48	cps
Scandium	45-2	197393	199913	201894	199733	1.13	cps
Selenium	82-1	263453	267043	266698	265731	0.75	cps
Selenium	77-2	4427	4531	4437	4465	1.28	cps
Selenium	78-2	15225	14741	15035	15000	1.63	cps
Silicon	28-1	34652974	34659785	34550054	34620938	0.18	cps
Silver	107-1	21725348	21416196	21491006	21544183	0.75	cps
Silver	109-1	20216163	20658093	20396631	20423629	1.09	cps
Sodium	23-2	50209498	49851733	49904321	49988517	0.39	cps
Strontium	86-1	6036852	6099978	6075432	6070754	0.52	cps
Strontium	88-1	52260784	52992596	51978783	52410721	1.00	cps
Sulfur	34-1	1957468	1959971	1972692	1963377	0.42	cps
Terbium	159-1	20064880	19900618	20102233	20022577	0.54	cps
Terbium	159-2	6119911	6179547	6171627	6157029	0.53	cps
Thallium	203-1	17617568	17787481	17981200	17795416	1.02	cps
Thallium	205-1	41777715	42043960	42011859	41944512	0.35	cps
Tin	118-1	13957986	14028104	14036002	14007364	0.31	cps
Titanium	47-1	26369957	26853224	26740288	26654490	0.95	cps
Uranium	238-1	58543336	58410576	59350784	58768232	0.87	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:53:57	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2744917	2782011	2785899	2770942	0.82	cps
Ytterbium	172-1	257	343	287	296	14.89	cps
Ytterbium	172-2	107	130	97	111	15.39	cps
Ytterbium	176-1	84162	82901	83619	83561	0.76	cps
Ytterbium	176-2	27108	26730	27201	27013	0.92	cps
Yttrium	89-1	27669848	27525116	27508458	27567807	0.32	cps
Yttrium	89-2	1919351	1901037	1942465	1920951	1.08	cps
Zinc	66-2	4965780	5020302	5011488	4999190	0.59	cps
Zirconium	90-1	29944893	29956697	30260387	30053992	0.60	cps
Zirconium	91-1	6747483	6788248	6798863	6778198	0.40	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6722007	6708705	6670788	6700500	0.40	cps
Antimony	121-1	10297	9840	9313	9817	5.02	cps
Arsenic	75-2	120	173	150	148	18.09	cps
Barium	135-1	8166	7866	7272	7768	5.86	cps
Barium	137-1	15028	13537	13063	13876	7.39	cps
Beryllium	9-1	1772	1470	1314	1519	15.36	cps
Bismuth	209-1	9443115	9406704	9198300	9349373	1.41	cps
Bismuth	209-2	3591789	3529284	3559699	3560258	0.88	cps
Bromine	81-1	8273	8193	8232	8233	0.49	cps
Cadmium	108-1	193	177	123	164	22.23	cps
Cadmium	106-1	7345	7282	7379	7335	0.67	cps
Cadmium	111-1	2460	2179	2133	2258	7.85	cps
Calcium	43-1	26148221	25724125	25515972	25796106	1.25	cps
Calcium	44-1	423211607	416356647	412602887	417390380	1.29	cps
Carbon	12-1	5336660	6250705	6811536	6132967	12.14	cps
Carbon	12-2	59379	60089	60648	60038	1.06	cps
Chlorine	35-1	62327	62440	62441	62402	0.11	cps
Chlorine	35-2	300	293	250	281	9.66	cps
Chromium	52-2	7197	7881	7336	7471	4.84	cps
Cobalt	59-2	12195	12085	11902	12061	1.23	cps
Copper	63-2	12632	12389	11768	12263	3.63	cps
Dysprosium	156-1	627	600	687	638	6.96	cps
Dysprosium	156-2	177	167	167	170	3.40	cps
Erbium	164-1	697	757	673	709	6.06	cps
Erbium	164-2	210	230	207	216	5.85	cps
Gadolinium	160-1	703	720	667	697	3.92	cps
Gadolinium	160-2	250	207	260	239	11.87	cps
Holmium	165-1	17563928	17249464	16857715	17223702	2.05	cps
Holmium	165-2	5829215	5659535	5768720	5752490	1.49	cps
Indium	115-1	12315960	12061207	11988478	12121882	1.42	cps
Indium	115-2	1261001	1229806	1253026	1247944	1.30	cps
Iron	54-2	30315268	30078235	30320608	30238037	0.46	cps
Iron	56-2	558777632	561301352	558498512	559525832	0.28	cps
Iron	57-2	14043468	14075363	14083393	14067408	0.15	cps
Krypton	83-1	393	383	437	404	7.01	cps
Lead	206-1	23478	21411	20463	21784	7.08	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	20793	18410	17689	18964	8.57	cps
Lead	208-1	94706	85481	82073	87420	7.48	cps
Lithium	6-1	6944528	6893164	6713563	6850419	1.77	cps
Magnesium	24-2	101017825	101756738	100914882	101229815	0.45	cps
Manganese	55-2	4681	4868	5285	4944	6.25	cps
Molybdenum	94-1	17014	13740	12075	14276	17.60	cps
Molybdenum	95-1	16740	13820	12649	14403	14.63	cps
Molybdenum	96-1	21547	18382	16403	18777	13.82	cps
Molybdenum	97-1	8326	6752	6105	7061	16.18	cps
Molybdenum	98-1	21073	16513	14591	17392	19.14	cps
Neodymium	150-1	270	343	300	304	12.11	cps
Neodymium	150-2	90	90	83	88	4.39	cps
Nickel	60-2	7098	7175	7512	7262	3.03	cps
Phosphorus	31-2	117	80	117	104	20.27	cps
Potassium	39-2	32171150	32255620	32255840	32227537	0.15	cps
Rhodium	103-1	10464417	10491529	10205017	10386988	1.52	cps
Rhodium	103-2	3952238	3839485	3962583	3918102	1.74	cps
Scandium	45-1	9244608	9046985	8730825	9007473	2.88	cps
Scandium	45-2	173388	170592	174475	172818	1.16	cps
Selenium	82-1	50	-3	-20	9	411.21	cps
Selenium	77-2	0	7	7	4	86.60	cps
Selenium	78-2	17	13	3	11	62.48	cps
Silicon	28-1	585703	563743	550503	566650	3.14	cps
Silver	107-1	3881	3260	2544	3228	20.73	cps
Silver	109-1	3741	2680	2340	2920	25.01	cps
Sodium	23-2	212721924	212190730	214149523	213020726	0.48	cps
Strontium	86-1	15022	14431	14191	14548	2.94	cps
Strontium	88-1	129086	125289	122733	125703	2.54	cps
Sulfur	34-1	338610	331846	328819	333092	1.50	cps
Terbium	159-1	17700153	17337176	17019387	17352239	1.96	cps
Terbium	159-2	5718005	5592528	5535884	5615472	1.66	cps
Thallium	203-1	2667	1984	1667	2106	24.28	cps
Thallium	205-1	6208	4881	3737	4942	25.02	cps
Tin	118-1	4337	4287	3714	4113	8.42	cps
Titanium	47-1	11148	10247	9530	10308	7.86	cps
Uranium	238-1	5715	4097	3230	4348	29.00	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 12:56:45	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	460	473	420	451	6.15	cps
Ytterbium	172-1	843	680	843	789	11.95	cps
Ytterbium	172-2	320	260	287	289	10.41	cps
Ytterbium	176-1	2790	2877	2607	2758	5.00	cps
Ytterbium	176-2	490	543	537	523	5.55	cps
Yttrium	89-1	23911544	23856528	23084357	23617476	1.96	cps
Yttrium	89-2	1755684	1693578	1733366	1727543	1.82	cps
Zinc	66-2	6422	6191	6408	6340	2.04	cps
Zirconium	90-1	17024	15525	15262	15937	5.96	cps
Zirconium	91-1	3701	3577	3634	3637	1.70	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	35212	35109	35433	35252	0.47	cps
Antimony	121-1	3103065	3128547	3131852	3121155	0.50	cps
Arsenic	75-2	57630	56556	57038	57075	0.94	cps
Barium	135-1	397272	400519	404988	400926	0.97	cps
Barium	137-1	696125	705546	709141	703604	0.96	cps
Beryllium	9-1	596212	592872	594582	594556	0.28	cps
Bismuth	209-1	11782703	11943008	11827909	11851207	0.70	cps
Bismuth	209-2	4499045	4525459	4474288	4499597	0.57	cps
Bromine	81-1	6872	7385	6958	7072	3.89	cps
Cadmium	108-1	58785	58383	58584	58584	0.34	cps
Cadmium	106-1	93934	93906	94749	94196	0.51	cps
Cadmium	111-1	394746	396486	402651	397961	1.04	cps
Calcium	43-1	123662	125239	124903	124601	0.67	cps
Calcium	44-1	2016471	1973707	1976641	1988940	1.20	cps
Carbon	12-1	3685337	3721266	3714171	3706925	0.51	cps
Carbon	12-2	26744	26638	26791	26724	0.29	cps
Chlorine	35-1	79835	80713	83086	81212	2.07	cps
Chlorine	35-2	327	353	363	348	5.45	cps
Chromium	52-2	335539	337474	338231	337081	0.41	cps
Cobalt	59-2	637999	643264	641751	641004	0.42	cps
Copper	63-2	498612	499454	501107	499724	0.25	cps
Dysprosium	156-1	17	40	37	31	40.56	cps
Dysprosium	156-2	0	0	7	2	173.21	cps
Erbium	164-1	117	97	100	104	10.26	cps
Erbium	164-2	10	53	33	32	67.31	cps
Gadolinium	160-1	97	93	80	90	9.80	cps
Gadolinium	160-2	7	13	3	8	65.47	cps
Holmium	165-1	18355102	18277726	18587911	18406913	0.88	cps
Holmium	165-2	6144193	6133756	6191572	6156507	0.50	cps
Indium	115-1	14145529	14249093	14082730	14159117	0.59	cps
Indium	115-2	1402460	1391854	1402103	1398805	0.43	cps
Iron	54-2	291532	292034	292870	292145	0.23	cps
Iron	56-2	5172288	5240207	5265587	5226027	0.92	cps
Iron	57-2	129327	131792	130833	130651	0.95	cps
Krypton	83-1	190	190	180	187	3.09	cps
Lead	206-1	2880228	2883966	2925790	2896661	0.87	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2368154	2368141	2454277	2396857	2.07	cps
Lead	208-1	11153328	11189361	11454721	11265803	1.46	cps
Lithium	6-1	8247427	8367433	8154548	8256469	1.29	cps
Magnesium	24-2	285033	285586	289798	286806	0.91	cps
Manganese	55-2	145721	148829	149005	147852	1.25	cps
Molybdenum	94-1	26620221	26531255	26828965	26660147	0.57	cps
Molybdenum	95-1	38387514	38353389	38520982	38420629	0.23	cps
Molybdenum	96-1	41817434	41946166	41821562	41861721	0.17	cps
Molybdenum	97-1	23421210	23787515	23713828	23640851	0.82	cps
Molybdenum	98-1	62194489	63018804	62329029	62514107	0.71	cps
Neodymium	150-1	50	53	43	49	10.42	cps
Neodymium	150-2	0	10	3	4	114.60	cps
Nickel	60-2	177184	177758	179899	178280	0.80	cps
Phosphorus	31-2	50	53	40	48	14.52	cps
Potassium	39-2	278094	279029	282818	279980	0.89	cps
Rhodium	103-1	13085196	13163211	12987509	13078639	0.67	cps
Rhodium	103-2	4915138	4834047	4856066	4868417	0.86	cps
Scandium	45-1	9905755	9922919	10010566	9946414	0.57	cps
Scandium	45-2	186368	188383	187574	187442	0.54	cps
Selenium	82-1	52402	52495	51977	52291	0.53	cps
Selenium	77-2	860	850	883	864	1.98	cps
Selenium	78-2	3044	2980	3027	3017	1.09	cps
Silicon	28-1	5813257	5826560	5764201	5801339	0.57	cps
Silver	107-1	1000934	1012242	1013011	1008729	0.67	cps
Silver	109-1	937966	958621	970265	955617	1.71	cps
Sodium	23-2	972028	970112	966249	969463	0.30	cps
Strontium	86-1	2717137	2696129	2693936	2702401	0.47	cps
Strontium	88-1	22886811	22923040	22866585	22892146	0.12	cps
Sulfur	34-1	414507	406960	408323	409930	0.98	cps
Terbium	159-1	19108991	18861990	18790240	18920407	0.88	cps
Terbium	159-2	6036570	6047720	6030420	6038237	0.15	cps
Thallium	203-1	3507087	3487209	3559900	3518065	1.07	cps
Thallium	205-1	8246111	8147558	8223000	8205556	0.63	cps
Tin	118-1	6702253	6759452	6734517	6732074	0.43	cps
Titanium	47-1	11925880	11689161	11879729	11831590	1.06	cps
Uranium	238-1	27179740	27358312	27685194	27407748	0.94	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:13:09	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	251909	252479	254924	253104	0.63	cps
Ytterbium	172-1	100	83	93	92	9.10	cps
Ytterbium	172-2	50	47	47	48	4.02	cps
Ytterbium	176-1	38346	39262	39676	39094	1.74	cps
Ytterbium	176-2	13173	13123	12963	13087	0.84	cps
Yttrium	89-1	25865021	25564567	25978425	25802671	0.83	cps
Yttrium	89-2	1833818	1822935	1841124	1832626	0.50	cps
Zinc	66-2	100610	99829	99486	99975	0.58	cps
Zirconium	90-1	13741401	13670854	13815776	13742677	0.53	cps
Zirconium	91-1	3073959	3062245	3084300	3073501	0.36	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	73	70	107	83	24.33	cps
Antimony	121-1	113	153	107	124	20.28	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	357	387	383	376	4.38	cps
Barium	137-1	627	530	580	579	8.35	cps
Beryllium	9-1	399	371	404	391	4.47	cps
Bismuth	209-1	12014522	11987354	12023551	12008476	0.16	cps
Bismuth	209-2	4538981	4496917	4543928	4526608	0.57	cps
Bromine	81-1	7205	7089	6995	7096	1.48	cps
Cadmium	108-1	17	20	10	16	32.73	cps
Cadmium	106-1	8319	8189	8770	8426	3.61	cps
Cadmium	111-1	1672	1644	1764	1693	3.70	cps
Calcium	43-1	450	417	390	419	7.18	cps
Calcium	44-1	9143	9013	8803	8986	1.91	cps
Carbon	12-1	3267906	3201343	3207406	3225552	1.14	cps
Carbon	12-2	23011	22467	22711	22730	1.20	cps
Chlorine	35-1	61416	63264	62558	62413	1.49	cps
Chlorine	35-2	213	227	167	202	15.58	cps
Chromium	52-2	473	570	573	539	10.54	cps
Cobalt	59-2	43	73	70	62	26.43	cps
Copper	63-2	4231	4081	4191	4167	1.86	cps
Dysprosium	156-1	17	13	17	16	12.40	cps
Dysprosium	156-2	0	7	7	4	86.60	cps
Erbium	164-1	87	103	93	94	8.88	cps
Erbium	164-2	27	27	30	28	6.92	cps
Gadolinium	160-1	103	100	93	99	5.15	cps
Gadolinium	160-2	17	17	27	20	28.86	cps
Holmium	165-1	18900134	18455289	19261156	18872193	2.14	cps
Holmium	165-2	6189245	6190704	6181542	6187164	0.08	cps
Indium	115-1	14735104	14393417	14967712	14698744	1.97	cps
Indium	115-2	1428841	1455153	1432483	1438826	0.99	cps
Iron	54-2	280	297	330	302	8.42	cps
Iron	56-2	3520	3504	3350	3458	2.71	cps
Iron	57-2	80	87	70	79	10.64	cps
Krypton	83-1	183	167	247	199	21.22	cps
Lead	206-1	2137	2220	2234	2197	2.38	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1877	1930	1867	1891	1.80	cps
Lead	208-1	8615	8845	8875	8778	1.62	cps
Lithium	6-1	8625994	8620788	8823781	8690188	1.33	cps
Magnesium	24-2	520	500	490	503	3.03	cps
Manganese	55-2	57	37	33	42	29.89	cps
Molybdenum	94-1	277	330	393	333	17.52	cps
Molybdenum	95-1	203	160	110	158	29.60	cps
Molybdenum	96-1	247	193	237	226	12.57	cps
Molybdenum	97-1	107	73	57	79	32.27	cps
Molybdenum	98-1	270	190	213	224	18.33	cps
Neodymium	150-1	20	20	20	20	0.00	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1230	1163	1280	1225	4.78	cps
Phosphorus	31-2	70	37	70	59	32.68	cps
Potassium	39-2	8222	8246	7722	8063	3.67	cps
Rhodium	103-1	13655508	13347394	13602676	13535192	1.22	cps
Rhodium	103-2	5031689	5045726	4915470	4997628	1.43	cps
Scandium	45-1	10405264	10283176	10601638	10430026	1.54	cps
Scandium	45-2	191386	193554	189762	191567	0.99	cps
Selenium	82-1	0	33	-40	-2	-1651.37	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	3	7	7	50.03	cps
Silicon	28-1	427491	428276	429563	428444	0.24	cps
Silver	107-1	243	260	243	249	3.87	cps
Silver	109-1	120	130	137	129	6.51	cps
Sodium	23-2	21573	22123	21606	21767	1.42	cps
Strontium	86-1	303	400	320	341	15.15	cps
Strontium	88-1	263	277	253	264	4.43	cps
Sulfur	34-1	462830	465682	462638	463717	0.37	cps
Terbium	159-1	18937693	19134485	19496137	19189438	1.48	cps
Terbium	159-2	6004617	6047847	6015037	6022500	0.37	cps
Thallium	203-1	327	360	313	333	7.21	cps
Thallium	205-1	797	803	717	772	6.25	cps
Tin	118-1	1240	1323	1217	1260	4.45	cps
Titanium	47-1	167	160	127	151	14.18	cps
Uranium	238-1	77	87	63	76	15.50	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:34:36	DataFile Name :	016CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	10	7	7	50.03	cps
Ytterbium	172-1	93	103	117	104	11.21	cps
Ytterbium	172-2	60	43	23	42	43.49	cps
Ytterbium	176-1	2364	2444	2634	2480	5.59	cps
Ytterbium	176-2	360	420	377	386	8.03	cps
Yttrium	89-1	26538988	26154587	26480815	26391463	0.79	cps
Yttrium	89-2	1883006	1890036	1850105	1874382	1.14	cps
Zinc	66-2	317	257	273	282	10.97	cps
Zirconium	90-1	867	803	887	852	5.11	cps
Zirconium	91-1	170	133	193	166	18.27	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6919489	6884611	6886871	6896990	0.28	cps
Antimony	121-1	16911	17181	17067	17053	0.80	cps
Arsenic	75-2	67	103	73	81	24.08	cps
Barium	135-1	5718	5828	5835	5794	1.13	cps
Barium	137-1	10331	10851	10514	10565	2.50	cps
Beryllium	9-1	1915	2022	1869	1935	4.08	cps
Bismuth	209-1	11246946	11068484	11111287	11142239	0.84	cps
Bismuth	209-2	4117354	4128747	4143275	4129792	0.31	cps
Bromine	81-1	9663	9720	10331	9905	3.73	cps
Cadmium	108-1	5588	5471	5331	5463	2.35	cps
Cadmium	106-1	7829	7916	7706	7817	1.35	cps
Cadmium	111-1	3929	4072	3984	3995	1.80	cps
Calcium	43-1	5732720	5833110	5900493	5822108	1.45	cps
Calcium	44-1	92867252	95395792	94806899	94356647	1.40	cps
Carbon	12-1	46018258	46236263	46450364	46234962	0.47	cps
Carbon	12-2	334444	336345	338166	336318	0.55	cps
Chlorine	35-1	73167229	77166921	79874319	76736156	4.40	cps
Chlorine	35-2	340311	339407	345134	341617	0.90	cps
Chromium	52-2	67950	67569	69313	68277	1.34	cps
Cobalt	59-2	7115	7365	7345	7275	1.91	cps
Copper	63-2	41808	41500	42343	41884	1.02	cps
Dysprosium	156-1	90	73	60	74	20.19	cps
Dysprosium	156-2	30	27	23	27	12.51	cps
Erbium	164-1	177	183	157	172	8.06	cps
Erbium	164-2	50	40	30	40	25.00	cps
Gadolinium	160-1	150	157	163	157	4.26	cps
Gadolinium	160-2	30	50	57	46	30.47	cps
Holmium	165-1	19026016	19292581	19399581	19239392	1.00	cps
Holmium	165-2	6162535	6150251	6082368	6131718	0.70	cps
Indium	115-1	14012615	14017205	14276306	14102042	1.07	cps
Indium	115-2	1373516	1382765	1378423	1378235	0.34	cps
Iron	54-2	14248144	14359251	14253532	14286975	0.44	cps
Iron	56-2	263827456	264105763	264090269	264007829	0.06	cps
Iron	57-2	6692482	6603667	6551431	6615860	1.08	cps
Krypton	83-1	207	240	237	228	8.06	cps
Lead	206-1	65072	64446	64503	64673	0.54	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	50073	51010	51080	50721	1.11	cps
Lead	208-1	240107	242064	241406	241192	0.41	cps
Lithium	6-1	8062285	8134933	8132503	8109907	0.51	cps
Magnesium	24-2	23838319	23764896	24193225	23932147	0.96	cps
Manganese	55-2	11238	11481	11508	11409	1.31	cps
Molybdenum	94-1	9345659	9216660	9292685	9285001	0.70	cps
Molybdenum	95-1	16618542	16436211	16593497	16549417	0.60	cps
Molybdenum	96-1	17589021	17823015	17792057	17734697	0.72	cps
Molybdenum	97-1	10154242	10098465	10215219	10155975	0.57	cps
Molybdenum	98-1	26830424	26581233	27170945	26860867	1.10	cps
Neodymium	150-1	67	107	77	83	24.98	cps
Neodymium	150-2	20	17	20	19	10.18	cps
Nickel	60-2	10257	9783	9927	9989	2.43	cps
Phosphorus	31-2	333746	336164	341177	337029	1.12	cps
Potassium	39-2	14327927	14253304	14538455	14373229	1.03	cps
Rhodium	103-1	12413044	12463635	12506752	12461144	0.38	cps
Rhodium	103-2	4531756	4630017	4601592	4587789	1.10	cps
Scandium	45-1	10153215	10266784	10135349	10185116	0.70	cps
Scandium	45-2	191599	192882	193095	192525	0.42	cps
Selenium	82-1	-7	60	27	27	125.01	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	7	10	10	33.30	cps
Silicon	28-1	740038	741508	749432	743659	0.68	cps
Silver	107-1	1317	1277	1260	1285	2.27	cps
Silver	109-1	1110	1183	1177	1157	3.51	cps
Sodium	23-2	49735426	49924554	49977833	49879271	0.26	cps
Strontium	86-1	190347	191981	193520	191949	0.83	cps
Strontium	88-1	1669213	1708212	1722330	1699918	1.62	cps
Sulfur	34-1	7846896	7924982	8072230	7948036	1.44	cps
Terbium	159-1	19589247	19346617	19690753	19542206	0.90	cps
Terbium	159-2	6081188	6027062	5987518	6031922	0.78	cps
Thallium	203-1	2414	2600	2764	2593	6.76	cps
Thallium	205-1	5365	5958	6222	5848	7.51	cps
Tin	118-1	3280	3440	3334	3352	2.43	cps
Titanium	47-1	5224283	5353720	5369271	5315758	1.50	cps
Uranium	238-1	1090	1097	1023	1070	3.79	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:41:39	DataFile Name :	017ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	380	397	393	390	2.26	cps
Ytterbium	172-1	93	130	130	118	17.98	cps
Ytterbium	172-2	67	57	43	56	21.08	cps
Ytterbium	176-1	2317	2317	2254	2296	1.59	cps
Ytterbium	176-2	413	380	383	392	4.68	cps
Yttrium	89-1	26478398	26561865	26792419	26610894	0.61	cps
Yttrium	89-2	1861404	1880601	1867330	1869778	0.53	cps
Zinc	66-2	5905	5538	5805	5749	3.30	cps
Zirconium	90-1	1327	1417	1333	1359	3.69	cps
Zirconium	91-1	300	293	320	304	4.56	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7355409	7284484	7310188	7316693	0.49	cps
Antimony	121-1	340160	347449	349087	345565	1.38	cps
Arsenic	75-2	6178	6542	6565	6428	3.37	cps
Barium	135-1	90477	92425	93443	92115	1.64	cps
Barium	137-1	159918	162310	163133	161787	1.03	cps
Beryllium	9-1	125239	126842	127318	126466	0.86	cps
Bismuth	209-1	11211687	11311658	11480348	11334565	1.20	cps
Bismuth	209-2	4251372	4163715	4122321	4179136	1.58	cps
Bromine	81-1	10531	10774	10674	10660	1.15	cps
Cadmium	108-1	10391	10741	10728	10620	1.87	cps
Cadmium	106-1	15676	15606	15285	15522	1.34	cps
Cadmium	111-1	82056	84004	83812	83290	1.29	cps
Calcium	43-1	6129309	6255932	6178296	6187845	1.03	cps
Calcium	44-1	97708619	102611215	101100352	100473395	2.50	cps
Carbon	12-1	49144963	49755586	50150636	49683728	1.02	cps
Carbon	12-2	360862	361361	363259	361828	0.35	cps
Chlorine	35-1	79684499	84987269	86155515	83609094	4.12	cps
Chlorine	35-2	362196	363423	365540	363720	0.46	cps
Chromium	52-2	141516	144084	145120	143573	1.29	cps
Cobalt	59-2	138980	142686	141212	140959	1.32	cps
Copper	63-2	144546	144641	144365	144517	0.10	cps
Dysprosium	156-1	57	83	90	77	23.00	cps
Dysprosium	156-2	20	17	23	20	16.65	cps
Erbium	164-1	190	140	197	176	17.64	cps
Erbium	164-2	50	67	30	49	37.55	cps
Gadolinium	160-1	123	117	130	123	5.40	cps
Gadolinium	160-2	53	20	43	39	43.98	cps
Holmium	165-1	19722035	19504158	20118981	19781725	1.58	cps
Holmium	165-2	6290192	6334413	6340823	6321809	0.44	cps
Indium	115-1	14520425	14573883	14409516	14501275	0.58	cps
Indium	115-2	1426341	1423609	1427332	1425761	0.14	cps
Iron	54-2	15007178	14848338	14987669	14947728	0.58	cps
Iron	56-2	274616569	274905003	277443456	275655009	0.56	cps
Iron	57-2	6913608	6859650	6911211	6894823	0.44	cps
Krypton	83-1	230	247	243	240	3.68	cps
Lead	206-1	346897	351562	356099	351519	1.31	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	289514	292762	295794	292690	1.07	cps
Lead	208-1	1343416	1355068	1366341	1354942	0.85	cps
Lithium	6-1	8309735	8440237	8344333	8364768	0.81	cps
Magnesium	24-2	25122766	25482770	25477395	25360977	0.81	cps
Manganese	55-2	42844	43904	43459	43402	1.23	cps
Molybdenum	94-1	9679649	9733789	9934542	9782660	1.37	cps
Molybdenum	95-1	17116428	17427304	17501965	17348566	1.18	cps
Molybdenum	96-1	18408600	18533254	18866800	18602885	1.27	cps
Molybdenum	97-1	10644970	10797138	10676109	10706072	0.75	cps
Molybdenum	98-1	28116645	28467720	28382035	28322134	0.65	cps
Neodymium	150-1	110	117	107	111	4.58	cps
Neodymium	150-2	17	20	23	20	16.65	cps
Nickel	60-2	45696	46372	46579	46216	1.00	cps
Phosphorus	31-2	358335	358832	358435	358534	0.07	cps
Potassium	39-2	14884614	14927999	14884224	14898945	0.17	cps
Rhodium	103-1	12850423	13139367	12928073	12972621	1.15	cps
Rhodium	103-2	4774135	4806988	4706854	4762659	1.07	cps
Scandium	45-1	10582761	10909812	10733817	10742130	1.52	cps
Scandium	45-2	202235	201458	202130	201941	0.21	cps
Selenium	82-1	5531	5918	5648	5699	3.48	cps
Selenium	77-2	107	87	93	96	10.66	cps
Selenium	78-2	333	353	343	343	2.91	cps
Silicon	28-1	800470	816096	818159	811575	1.19	cps
Silver	107-1	400242	409733	416343	408773	1.98	cps
Silver	109-1	384765	389393	391948	388702	0.94	cps
Sodium	23-2	53262843	52841444	52996521	53033603	0.40	cps
Strontium	86-1	201273	202551	202896	202240	0.42	cps
Strontium	88-1	1771899	1787075	1775501	1778158	0.45	cps
Sulfur	34-1	8438088	8605442	8491270	8511600	1.00	cps
Terbium	159-1	20026258	19668214	20015433	19903302	1.02	cps
Terbium	159-2	6084217	6144619	6172412	6133749	0.74	cps
Thallium	203-1	354183	359279	361761	358408	1.08	cps
Thallium	205-1	833765	857381	858213	849786	1.63	cps
Tin	118-1	3424	3677	3764	3622	4.88	cps
Titanium	47-1	5535995	5743190	5759020	5679402	2.19	cps
Uranium	238-1	1070	953	977	1000	6.17	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:44:45	DataFile Name :	018ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	56180	55795	54741	55572	1.34	cps
Ytterbium	172-1	83	120	123	109	20.39	cps
Ytterbium	172-2	43	30	40	38	18.36	cps
Ytterbium	176-1	2497	2394	2340	2410	3.31	cps
Ytterbium	176-2	330	403	337	357	11.37	cps
Yttrium	89-1	27977184	28157439	27730260	27954961	0.77	cps
Yttrium	89-2	1965272	1919361	1919001	1934545	1.38	cps
Zinc	66-2	16199	16627	16096	16307	1.73	cps
Zirconium	90-1	1070	1207	1370	1216	12.36	cps
Zirconium	91-1	310	287	343	313	9.09	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3925524	3907393	3927811	3920243	0.29	cps
Antimony	121-1	7900988	7914226	7840959	7885391	0.50	cps
Arsenic	75-2	148355	150295	149116	149255	0.66	cps
Barium	135-1	10374808	10122649	10344404	10280620	1.34	cps
Barium	137-1	17787370	17813730	18087755	17896285	0.93	cps
Beryllium	9-1	2952303	3003195	3023408	2992969	1.22	cps
Bismuth	209-1	10792065	10874954	10734975	10800664	0.65	cps
Bismuth	209-2	3909064	3980833	4008468	3966122	1.29	cps
Bromine	81-1	9353	9206	9160	9240	1.09	cps
Cadmium	108-1	162431	162454	163672	162852	0.44	cps
Cadmium	106-1	238384	239663	237309	238452	0.49	cps
Cadmium	111-1	1914074	1955256	1929280	1932870	1.08	cps
Calcium	43-1	15008356	15161979	15300601	15156979	0.96	cps
Calcium	44-1	245627416	248298870	249158703	247694996	0.74	cps
Carbon	12-1	4595517	4724339	4698182	4672679	1.46	cps
Carbon	12-2	39045	38758	38681	38828	0.49	cps
Chlorine	35-1	3916865	3622620	3413359	3650948	6.93	cps
Chlorine	35-2	11575	11368	10691	11211	4.12	cps
Chromium	52-2	1843956	1836544	1811203	1830567	0.94	cps
Cobalt	59-2	3200152	3200763	3259602	3220172	1.06	cps
Copper	63-2	23357911	23509374	23080701	23315995	0.93	cps
Dysprosium	156-1	480	513	393	462	13.40	cps
Dysprosium	156-2	147	143	93	128	23.38	cps
Erbium	164-1	470	530	463	488	7.53	cps
Erbium	164-2	190	140	173	168	15.17	cps
Gadolinium	160-1	470	357	457	428	14.48	cps
Gadolinium	160-2	143	123	153	140	10.91	cps
Holmium	165-1	18994058	19449096	19206793	19216649	1.18	cps
Holmium	165-2	6124668	6168279	6197151	6163366	0.59	cps
Indium	115-1	13963773	14257641	13900727	14040714	1.36	cps
Indium	115-2	1361611	1383594	1381940	1375715	0.89	cps
Iron	54-2	17759721	18200441	18164118	18041427	1.36	cps
Iron	56-2	334837615	331452628	335135742	333808662	0.61	cps
Iron	57-2	8438581	8316600	8424194	8393125	0.79	cps
Krypton	83-1	270	357	320	316	13.79	cps
Lead	206-1	33012701	32787429	32777319	32859150	0.40	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28190130	28465060	28349303	28334831	0.49	cps
Lead	208-1	130394857	131207422	130817286	130806522	0.31	cps
Lithium	6-1	7962687	7949072	8053396	7988385	0.71	cps
Magnesium	24-2	65392164	64603322	65059554	65018347	0.61	cps
Manganese	55-2	7611147	7710347	7789894	7703796	1.16	cps
Molybdenum	94-1	30001208	30158499	30136886	30098864	0.28	cps
Molybdenum	95-1	43268435	43363778	43482846	43371686	0.25	cps
Molybdenum	96-1	46998841	47795684	47249709	47348078	0.86	cps
Molybdenum	97-1	26332234	26795952	26712579	26613588	0.93	cps
Molybdenum	98-1	69877144	70901359	70909639	70562714	0.84	cps
Neodymium	150-1	990	1020	1137	1049	7.39	cps
Neodymium	150-2	63	37	67	56	29.59	cps
Nickel	60-2	844511	844929	847036	845492	0.16	cps
Phosphorus	31-2	34190	34210	33779	34060	0.71	cps
Potassium	39-2	18868001	18920017	18923561	18903860	0.16	cps
Rhodium	103-1	12030618	12606282	12343146	12326682	2.34	cps
Rhodium	103-2	4557730	4557170	4575076	4563325	0.22	cps
Scandium	45-1	10500307	10828888	10727319	10685505	1.57	cps
Scandium	45-2	199863	202438	206035	202779	1.53	cps
Selenium	82-1	128801	129373	129938	129371	0.44	cps
Selenium	77-2	2170	2220	2087	2159	3.12	cps
Selenium	78-2	7395	7719	7282	7465	3.04	cps
Silicon	28-1	31772584	32347430	32227520	32115845	0.94	cps
Silver	107-1	10175249	10259584	10299594	10244809	0.62	cps
Silver	109-1	9635170	9748229	9615686	9666362	0.74	cps
Sodium	23-2	129460375	129418908	129533535	129470939	0.04	cps
Strontium	86-1	3061266	3097387	3158853	3105835	1.59	cps
Strontium	88-1	26138915	26424323	26236353	26266530	0.55	cps
Sulfur	34-1	1236538	1230866	1238938	1235448	0.34	cps
Terbium	159-1	19353398	19955686	19466055	19591713	1.63	cps
Terbium	159-2	5934414	5980656	6028595	5981222	0.79	cps
Thallium	203-1	8545246	8494739	8402502	8480829	0.85	cps
Thallium	205-1	20180133	19863153	20008356	20017214	0.79	cps
Tin	118-1	6850175	6914029	6765699	6843301	1.09	cps
Titanium	47-1	13644186	13632110	13706182	13660826	0.29	cps
Uranium	238-1	28253768	28144073	28502752	28300198	0.65	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:47:54	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1402279	1453216	1437846	1431114	1.83	cps
Ytterbium	172-1	513	513	600	542	9.23	cps
Ytterbium	172-2	203	210	223	212	4.80	cps
Ytterbium	176-1	42291	42465	41756	42170	0.88	cps
Ytterbium	176-2	13644	13620	13677	13647	0.21	cps
Yttrium	89-1	27066657	28043956	27173018	27427877	1.95	cps
Yttrium	89-2	1927002	1964019	1940076	1943699	0.97	cps
Zinc	66-2	2473369	2447220	2432469	2451019	0.85	cps
Zirconium	90-1	15452066	15385376	15411895	15416446	0.22	cps
Zirconium	91-1	3401306	3427578	3417948	3415611	0.39	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143	130	133	136	5.12	cps
Antimony	121-1	513	490	407	470	11.93	cps
Arsenic	75-2	0	7	3	3	100.05	cps
Barium	135-1	227	157	193	192	18.21	cps
Barium	137-1	263	250	210	241	11.51	cps
Beryllium	9-1	536	502	519	519	3.25	cps
Bismuth	209-1	12532610	12176918	12813486	12507671	2.55	cps
Bismuth	209-2	4720759	4702802	4726672	4716744	0.26	cps
Bromine	81-1	8279	8229	8116	8208	1.02	cps
Cadmium	108-1	30	23	13	22	37.76	cps
Cadmium	106-1	8866	8169	8629	8555	4.14	cps
Cadmium	111-1	1812	1671	1763	1749	4.11	cps
Calcium	43-1	613	527	430	523	17.52	cps
Calcium	44-1	11818	10794	10461	11024	6.42	cps
Carbon	12-1	3546562	3560050	3523147	3543253	0.53	cps
Carbon	12-2	24430	24380	24537	24449	0.33	cps
Chlorine	35-1	770316	739297	715152	741588	3.73	cps
Chlorine	35-2	2824	2794	2520	2713	6.16	cps
Chromium	52-2	547	543	633	574	8.88	cps
Cobalt	59-2	120	67	73	87	33.53	cps
Copper	63-2	5024	4824	4834	4894	2.30	cps
Dysprosium	156-1	17	3	13	11	62.48	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	63	87	133	94	37.74	cps
Erbium	164-2	33	30	33	32	5.97	cps
Gadolinium	160-1	70	83	103	86	19.61	cps
Gadolinium	160-2	20	27	3	17	72.13	cps
Holmium	165-1	20014992	19083098	19915173	19671087	2.60	cps
Holmium	165-2	6307888	6453333	6523193	6428138	1.71	cps
Indium	115-1	15645955	15068619	15941489	15552021	2.85	cps
Indium	115-2	1515385	1540456	1573000	1542947	1.87	cps
Iron	54-2	393	403	373	390	3.92	cps
Iron	56-2	5358	5331	5191	5293	1.69	cps
Iron	57-2	100	90	130	107	19.52	cps
Krypton	83-1	227	223	243	231	4.64	cps
Lead	206-1	2600	2774	2627	2667	3.50	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2460	2374	2390	2408	1.91	cps
Lead	208-1	10909	10855	10448	10737	2.34	cps
Lithium	6-1	9260129	8929931	9083960	9091340	1.82	cps
Magnesium	24-2	683	637	643	654	3.86	cps
Manganese	55-2	120	120	90	110	15.75	cps
Molybdenum	94-1	990	813	820	874	11.45	cps
Molybdenum	95-1	1013	700	457	723	38.58	cps
Molybdenum	96-1	1123	783	647	851	28.84	cps
Molybdenum	97-1	587	437	377	467	23.18	cps
Molybdenum	98-1	1377	1123	837	1112	24.29	cps
Neodymium	150-1	17	17	7	13	43.29	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	1353	1397	1327	1359	2.60	cps
Phosphorus	31-2	50	83	30	54	49.48	cps
Potassium	39-2	10884	10874	10747	10835	0.70	cps
Rhodium	103-1	14729342	13752552	14701484	14394459	3.86	cps
Rhodium	103-2	5371803	5351028	5468051	5396961	1.16	cps
Scandium	45-1	11463777	10907946	11386262	11252662	2.68	cps
Scandium	45-2	208875	208300	213629	210268	1.39	cps
Selenium	82-1	-7	-37	-57	-33	-75.49	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	0	0	4	173.21	cps
Silicon	28-1	463319	465667	462540	463842	0.35	cps
Silver	107-1	513	517	453	494	7.21	cps
Silver	109-1	360	323	280	321	12.47	cps
Sodium	23-2	34153	33261	33271	33562	1.53	cps
Strontium	86-1	387	363	357	369	4.27	cps
Strontium	88-1	463	437	343	414	15.20	cps
Sulfur	34-1	459285	458409	458109	458601	0.13	cps
Terbium	159-1	20503214	19847182	20666443	20338946	2.13	cps
Terbium	159-2	6328857	6304915	6346759	6326844	0.33	cps
Thallium	203-1	900	903	883	896	1.20	cps
Thallium	205-1	2300	2097	2234	2210	4.69	cps
Tin	118-1	1483	1420	1477	1460	2.38	cps
Titanium	47-1	350	300	297	316	9.47	cps
Uranium	238-1	363	237	140	247	45.41	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 13:54:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	7	10	9	21.63	cps
Ytterbium	172-1	93	100	100	98	3.94	cps
Ytterbium	172-2	53	77	23	51	52.32	cps
Ytterbium	176-1	2354	2317	2604	2425	6.44	cps
Ytterbium	176-2	363	417	463	414	12.07	cps
Yttrium	89-1	28653220	27345170	29061825	28353405	3.16	cps
Yttrium	89-2	2016907	2020823	2069636	2035789	1.44	cps
Zinc	66-2	250	357	323	310	17.60	cps
Zirconium	90-1	1363	1307	1357	1342	2.31	cps
Zirconium	91-1	250	257	317	274	13.38	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1263	1260	1227	1250	1.62	cps
Antimony	121-1	11995	12105	12065	12055	0.46	cps
Arsenic	75-2	233	187	233	218	12.37	cps
Barium	135-1	15599	16263	16160	16007	2.23	cps
Barium	137-1	28002	26359	27869	27410	3.33	cps
Beryllium	9-1	5169	5099	5215	5161	1.13	cps
Bismuth	209-1	12117717	12110251	12179204	12135724	0.31	cps
Bismuth	209-2	4484262	4555045	4537266	4525524	0.81	cps
Bromine	81-1	7405	7059	7399	7288	2.72	cps
Cadmium	108-1	287	270	243	267	8.20	cps
Cadmium	106-1	8786	8686	8639	8704	0.86	cps
Cadmium	111-1	4720	4922	4701	4781	2.56	cps
Calcium	43-1	5128	5141	5018	5095	1.33	cps
Calcium	44-1	84734	83819	84707	84420	0.62	cps
Carbon	12-1	3529688	3267667	3217449	3338268	5.02	cps
Carbon	12-2	23061	22581	23098	22913	1.26	cps
Chlorine	35-1	159012	159224	155353	157863	1.38	cps
Chlorine	35-2	643	600	557	600	7.22	cps
Chromium	52-2	3514	3357	3347	3406	2.74	cps
Cobalt	59-2	5124	4888	5374	5129	4.75	cps
Copper	63-2	11912	12426	12102	12146	2.14	cps
Dysprosium	156-1	17	3	10	10	66.70	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	90	93	117	100	14.53	cps
Erbium	164-2	30	30	20	27	21.65	cps
Gadolinium	160-1	67	90	77	78	15.05	cps
Gadolinium	160-2	10	23	20	18	39.03	cps
Holmium	165-1	19210099	19072298	19222918	19168438	0.44	cps
Holmium	165-2	6199848	6073982	6210820	6161550	1.23	cps
Indium	115-1	14938704	14882211	14917472	14912796	0.19	cps
Indium	115-2	1448028	1444550	1453051	1448543	0.30	cps
Iron	54-2	6105	6135	6028	6089	0.90	cps
Iron	56-2	109842	108542	109815	109400	0.68	cps
Iron	57-2	2804	2760	2704	2756	1.82	cps
Krypton	83-1	183	267	187	212	22.23	cps
Lead	206-1	12253	11889	12573	12238	2.80	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10795	10584	10955	10778	1.72	cps
Lead	208-1	48976	48099	49884	48987	1.82	cps
Lithium	6-1	9061236	8973626	9011573	9015479	0.49	cps
Magnesium	24-2	21049	21112	21466	21209	1.06	cps
Manganese	55-2	2317	2524	2544	2461	5.10	cps
Molybdenum	94-1	11875	11982	12159	12005	1.19	cps
Molybdenum	95-1	6522	6595	6668	6595	1.11	cps
Molybdenum	96-1	8209	8169	8363	8247	1.24	cps
Molybdenum	97-1	4117	4124	3787	4010	4.80	cps
Molybdenum	98-1	10698	10464	10291	10484	1.95	cps
Neodymium	150-1	7	20	27	18	57.27	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	2694	2757	2617	2689	2.61	cps
Phosphorus	31-2	113	100	107	107	6.25	cps
Potassium	39-2	14691	14457	15148	14765	2.38	cps
Rhodium	103-1	13968435	13855906	13770488	13864943	0.72	cps
Rhodium	103-2	5016094	5120848	5077844	5071595	1.04	cps
Scandium	45-1	10712372	10737943	10704414	10718243	0.16	cps
Scandium	45-2	199626	196474	198653	198251	0.81	cps
Selenium	82-1	197	153	190	180	12.96	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	10	17	13	13	25.01	cps
Silicon	28-1	451662	448992	450253	450302	0.30	cps
Silver	107-1	16530	16386	16563	16493	0.57	cps
Silver	109-1	15589	16033	16103	15908	1.75	cps
Sodium	23-2	65205	64719	64431	64785	0.60	cps
Strontium	86-1	4517	4621	4511	4550	1.36	cps
Strontium	88-1	36320	37540	37153	37004	1.68	cps
Sulfur	34-1	477913	473275	473239	474809	0.57	cps
Terbium	159-1	19755341	19367052	19506545	19542979	1.01	cps
Terbium	159-2	6010237	6036351	6109820	6052136	0.85	cps
Thallium	203-1	13827	13617	13764	13736	0.78	cps
Thallium	205-1	31979	31385	32273	31879	1.42	cps
Tin	118-1	12219	14822	11805	12949	12.63	cps
Titanium	47-1	2237	2220	2277	2245	1.30	cps
Uranium	238-1	41635	42611	43006	42417	1.66	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT1-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:16:42	DataFile Name :	022SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2030	2107	2114	2084	2.22	cps
Ytterbium	172-1	90	130	107	109	18.45	cps
Ytterbium	172-2	50	30	37	39	26.18	cps
Ytterbium	176-1	2394	2534	2447	2458	2.88	cps
Ytterbium	176-2	333	403	397	378	10.23	cps
Yttrium	89-1	27349135	27171557	27103547	27208080	0.47	cps
Yttrium	89-2	1908800	1924426	1902352	1911860	0.59	cps
Zinc	66-2	1090	1177	1190	1152	4.71	cps
Zirconium	90-1	22248	22525	22605	22459	0.83	cps
Zirconium	91-1	4674	5081	4964	4906	4.27	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	733	740	770	748	2.61	cps
Antimony	121-1	6688	6632	6482	6601	1.62	cps
Arsenic	75-2	160	133	107	133	20.00	cps
Barium	135-1	8529	8496	8876	8634	2.44	cps
Barium	137-1	14531	15249	14985	14922	2.43	cps
Beryllium	9-1	2982	2896	2976	2952	1.63	cps
Bismuth	209-1	12245167	12471963	12456191	12391107	1.02	cps
Bismuth	209-2	4509433	4486134	4595217	4530262	1.27	cps
Bromine	81-1	7512	7562	7485	7520	0.52	cps
Cadmium	108-1	140	170	160	157	9.75	cps
Cadmium	106-1	8710	8956	8966	8877	1.64	cps
Cadmium	111-1	3457	3432	3478	3456	0.66	cps
Calcium	43-1	12652	12359	12212	12408	1.81	cps
Calcium	44-1	203315	204225	204182	203908	0.25	cps
Carbon	12-1	3226328	3196181	3196297	3206269	0.54	cps
Carbon	12-2	22350	22481	22440	22424	0.30	cps
Chlorine	35-1	147344	148684	147990	148006	0.45	cps
Chlorine	35-2	613	627	580	607	3.96	cps
Chromium	52-2	2017	1960	1977	1985	1.47	cps
Cobalt	59-2	2900	2927	2747	2858	3.40	cps
Copper	63-2	8553	8793	8606	8650	1.46	cps
Dysprosium	156-1	23	13	20	19	26.96	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	100	93	117	103	11.63	cps
Erbium	164-2	17	17	30	21	36.45	cps
Gadolinium	160-1	60	107	67	78	32.45	cps
Gadolinium	160-2	33	10	30	24	51.62	cps
Holmium	165-1	19409224	18819599	19406726	19211849	1.77	cps
Holmium	165-2	6128529	6128991	6226502	6161341	0.92	cps
Indium	115-1	15118156	15131967	15117139	15122421	0.05	cps
Indium	115-2	1465116	1456761	1511042	1477640	1.98	cps
Iron	54-2	5044	5104	5191	5113	1.44	cps
Iron	56-2	93373	93846	92514	93244	0.72	cps
Iron	57-2	2417	2334	2270	2340	3.14	cps
Krypton	83-1	237	200	150	196	22.25	cps
Lead	206-1	7913	7642	7776	7777	1.74	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6415	6715	6698	6610	2.55	cps
Lead	208-1	30448	30371	30554	30458	0.30	cps
Lithium	6-1	8951831	8925852	8936588	8938090	0.15	cps
Magnesium	24-2	54070	54783	53568	54140	1.13	cps
Manganese	55-2	1287	1223	1350	1287	4.92	cps
Molybdenum	94-1	6615	6668	6682	6655	0.53	cps
Molybdenum	95-1	3637	3684	3520	3614	2.33	cps
Molybdenum	96-1	4711	4577	4367	4552	3.80	cps
Molybdenum	97-1	2124	2360	2287	2257	5.37	cps
Molybdenum	98-1	5668	5628	5925	5740	2.81	cps
Neodymium	150-1	20	23	30	24	20.83	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	2017	2050	2234	2100	5.56	cps
Phosphorus	31-2	117	90	100	102	13.18	cps
Potassium	39-2	28308	27790	27319	27806	1.78	cps
Rhodium	103-1	14094885	13947650	14006478	14016338	0.53	cps
Rhodium	103-2	5104238	5156309	5290293	5183613	1.85	cps
Scandium	45-1	10762883	10687811	10816594	10755763	0.60	cps
Scandium	45-2	199971	199376	205102	201483	1.56	cps
Selenium	82-1	1237	1150	1303	1230	6.25	cps
Selenium	77-2	37	40	13	30	48.44	cps
Selenium	78-2	83	97	63	81	20.69	cps
Silicon	28-1	446197	449326	448699	448074	0.37	cps
Silver	107-1	9143	9410	9537	9363	2.15	cps
Silver	109-1	8786	8579	8626	8664	1.25	cps
Sodium	23-2	126300	127470	126922	126898	0.46	cps
Strontium	86-1	2807	2770	2810	2796	0.79	cps
Strontium	88-1	20488	20959	21033	20827	1.42	cps
Sulfur	34-1	485075	484361	482570	484002	0.27	cps
Terbium	159-1	19988905	19665440	19672004	19775450	0.93	cps
Terbium	159-2	6064965	6115969	6247742	6142892	1.54	cps
Thallium	203-1	7312	7406	7466	7394	1.05	cps
Thallium	205-1	17926	17622	17442	17663	1.39	cps
Tin	118-1	7305	7069	6975	7116	2.39	cps
Titanium	47-1	1330	1087	1363	1260	11.99	cps
Uranium	238-1	23001	22921	23305	23075	0.88	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03RE	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:20:03	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1207	1107	1077	1130	6.02	cps
Ytterbium	172-1	93	137	140	123	21.11	cps
Ytterbium	172-2	53	37	47	46	18.41	cps
Ytterbium	176-1	2500	2390	2614	2501	4.47	cps
Ytterbium	176-2	440	440	420	433	2.66	cps
Yttrium	89-1	27742530	27261193	28013299	27672341	1.38	cps
Yttrium	89-2	1915337	1911582	1942530	1923150	0.88	cps
Zinc	66-2	983	1090	1037	1037	5.14	cps
Zirconium	90-1	12342	13006	12699	12683	2.62	cps
Zirconium	91-1	2897	2807	2934	2879	2.26	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1270	1220	1240	1243	2.02	cps
Antimony	121-1	11835	11842	12336	12004	2.39	cps
Arsenic	75-2	203	213	213	210	2.75	cps
Barium	135-1	15696	15486	15225	15469	1.52	cps
Barium	137-1	27682	27254	26937	27291	1.37	cps
Beryllium	9-1	5155	5120	5164	5147	0.45	cps
Bismuth	209-1	12238209	12280759	12005394	12174787	1.22	cps
Bismuth	209-2	4460490	4549132	4526286	4511969	1.02	cps
Bromine	81-1	7465	7565	7629	7553	1.09	cps
Cadmium	108-1	277	243	260	260	6.41	cps
Cadmium	106-1	9343	9126	9280	9250	1.21	cps
Cadmium	111-1	4999	4625	4868	4831	3.92	cps
Calcium	43-1	5368	5314	5178	5287	1.85	cps
Calcium	44-1	83842	84278	84704	84275	0.51	cps
Carbon	12-1	3244036	3206795	3157668	3202833	1.35	cps
Carbon	12-2	22043	22427	22461	22310	1.04	cps
Chlorine	35-1	144539	143213	141846	143200	0.94	cps
Chlorine	35-2	527	550	520	532	2.96	cps
Chromium	52-2	3227	3314	3187	3243	2.00	cps
Cobalt	59-2	5208	5334	4818	5120	5.26	cps
Copper	63-2	12436	12345	12222	12334	0.87	cps
Dysprosium	156-1	20	47	10	26	74.17	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	87	77	123	96	25.71	cps
Erbium	164-2	17	37	20	24	43.83	cps
Gadolinium	160-1	63	80	90	78	17.32	cps
Gadolinium	160-2	27	27	17	23	24.74	cps
Holmium	165-1	19645926	19416221	18842446	19301531	2.14	cps
Holmium	165-2	6168778	6162276	6107545	6146200	0.55	cps
Indium	115-1	15296970	15117556	14797551	15070692	1.68	cps
Indium	115-2	1450656	1445194	1459468	1451773	0.50	cps
Iron	54-2	5995	6165	6231	6130	1.99	cps
Iron	56-2	109032	108619	108444	108699	0.28	cps
Iron	57-2	2620	2840	2677	2713	4.21	cps
Krypton	83-1	223	190	183	199	10.78	cps
Lead	206-1	12610	11819	12062	12164	3.33	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10654	10608	10975	10746	1.86	cps
Lead	208-1	49704	48717	49454	49292	1.04	cps
Lithium	6-1	9022049	9150557	8751446	8974684	2.27	cps
Magnesium	24-2	20785	21416	21112	21104	1.50	cps
Manganese	55-2	2494	2534	2447	2491	1.74	cps
Molybdenum	94-1	11645	12236	11438	11773	3.51	cps
Molybdenum	95-1	6528	6492	6448	6489	0.62	cps
Molybdenum	96-1	8379	8239	8092	8237	1.74	cps
Molybdenum	97-1	3777	4171	4071	4006	5.10	cps
Molybdenum	98-1	10304	10067	10244	10205	1.21	cps
Neodymium	150-1	37	27	27	30	19.24	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	2784	2744	2677	2735	1.97	cps
Phosphorus	31-2	117	140	140	132	10.19	cps
Potassium	39-2	15135	15398	15171	15235	0.94	cps
Rhodium	103-1	14212124	13853924	13733869	13933306	1.79	cps
Rhodium	103-2	5076934	5080154	5128637	5095242	0.57	cps
Scandium	45-1	10772104	10733536	10606185	10703942	0.81	cps
Scandium	45-2	198193	200678	198130	199000	0.73	cps
Selenium	82-1	203	247	240	230	10.15	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	33	13	0	16	107.86	cps
Silicon	28-1	453823	456225	455927	455325	0.29	cps
Silver	107-1	16463	17087	16827	16793	1.87	cps
Silver	109-1	15269	15923	15943	15711	2.44	cps
Sodium	23-2	64003	64056	64291	64117	0.24	cps
Strontium	86-1	4644	4631	4597	4624	0.52	cps
Strontium	88-1	36932	36875	36929	36912	0.09	cps
Sulfur	34-1	496238	496016	495010	495755	0.13	cps
Terbium	159-1	19844117	19657915	19473743	19658592	0.94	cps
Terbium	159-2	6031624	6048103	6017664	6032464	0.25	cps
Thallium	203-1	13504	13307	13280	13364	0.91	cps
Thallium	205-1	32123	32648	31933	32234	1.15	cps
Tin	118-1	12129	12242	12176	12182	0.47	cps
Titanium	47-1	2224	2160	2124	2169	2.33	cps
Uranium	238-1	43139	43079	42123	42781	1.33	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:23:26	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2097	2174	1893	2055	7.04	cps
Ytterbium	172-1	83	93	97	91	7.62	cps
Ytterbium	172-2	33	57	20	37	50.62	cps
Ytterbium	176-1	2440	2430	2594	2488	3.68	cps
Ytterbium	176-2	317	330	420	356	15.81	cps
Yttrium	89-1	27895010	27281291	27018962	27398421	1.64	cps
Yttrium	89-2	1937818	1897852	1895298	1910323	1.25	cps
Zinc	66-2	1210	1183	980	1125	11.19	cps
Zirconium	90-1	22869	22805	22992	22889	0.42	cps
Zirconium	91-1	5231	4998	5094	5108	2.30	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	677	843	767	762	10.94	cps
Antimony	121-1	6758	6542	6698	6666	1.68	cps
Arsenic	75-2	143	123	97	121	19.33	cps
Barium	135-1	8713	8776	8646	8712	0.75	cps
Barium	137-1	14875	15686	14845	15135	3.15	cps
Beryllium	9-1	2882	2964	2937	2928	1.42	cps
Bismuth	209-1	12326161	12087384	12424001	12279182	1.41	cps
Bismuth	209-2	4545209	4476791	4511345	4511115	0.76	cps
Bromine	81-1	7589	7726	7559	7624	1.17	cps
Cadmium	108-1	160	180	147	162	10.34	cps
Cadmium	106-1	9333	8973	9253	9186	2.06	cps
Cadmium	111-1	3345	3419	3641	3468	4.45	cps
Calcium	43-1	12696	12692	12342	12577	1.62	cps
Calcium	44-1	202849	203307	202289	202815	0.25	cps
Carbon	12-1	3330422	3255476	3292354	3292750	1.14	cps
Carbon	12-2	22761	22397	22427	22528	0.90	cps
Chlorine	35-1	137977	136604	136886	137156	0.53	cps
Chlorine	35-2	507	567	513	529	6.22	cps
Chromium	52-2	2064	2084	2097	2081	0.81	cps
Cobalt	59-2	2790	2810	3000	2867	4.04	cps
Copper	63-2	8339	8636	8736	8570	2.41	cps
Dysprosium	156-1	7	17	17	13	43.29	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	80	113	123	106	21.50	cps
Erbium	164-2	27	17	37	27	37.50	cps
Gadolinium	160-1	97	83	70	83	16.00	cps
Gadolinium	160-2	7	40	27	24	68.62	cps
Holmium	165-1	19128866	19334088	19367808	19276921	0.67	cps
Holmium	165-2	6138134	6139353	6057598	6111695	0.77	cps
Indium	115-1	14734862	14934746	14901159	14856922	0.72	cps
Indium	115-2	1443331	1451430	1446567	1447109	0.28	cps
Iron	54-2	5184	5174	5018	5125	1.82	cps
Iron	56-2	91739	93701	91444	92295	1.33	cps
Iron	57-2	2137	2214	2274	2208	3.10	cps
Krypton	83-1	237	190	193	207	12.60	cps
Lead	206-1	7649	7782	7509	7647	1.79	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6575	6642	6672	6630	0.75	cps
Lead	208-1	30314	30531	30301	30382	0.43	cps
Lithium	6-1	9074789	8967179	8966083	9002684	0.69	cps
Magnesium	24-2	53909	54130	53404	53814	0.69	cps
Manganese	55-2	1373	1383	1347	1368	1.39	cps
Molybdenum	94-1	6378	6588	6572	6513	1.79	cps
Molybdenum	95-1	3314	3941	3597	3617	8.68	cps
Molybdenum	96-1	4434	4801	4381	4539	5.04	cps
Molybdenum	97-1	2017	2040	2087	2048	1.74	cps
Molybdenum	98-1	5678	5601	5491	5590	1.68	cps
Neodymium	150-1	20	23	7	17	52.90	cps
Neodymium	150-2	10	0	0	3	173.21	cps
Nickel	60-2	1883	2070	2010	1988	4.79	cps
Phosphorus	31-2	73	80	70	74	6.84	cps
Potassium	39-2	27540	27720	27149	27470	1.06	cps
Rhodium	103-1	13663433	13922728	13940350	13842170	1.12	cps
Rhodium	103-2	5194027	5042173	5119308	5118503	1.48	cps
Scandium	45-1	10784033	10678226	10961755	10808005	1.33	cps
Scandium	45-2	199109	198984	197666	198586	0.40	cps
Selenium	82-1	1210	1277	1203	1230	3.30	cps
Selenium	77-2	10	27	23	20	44.10	cps
Selenium	78-2	103	73	80	86	18.41	cps
Silicon	28-1	444980	443121	455178	447760	1.45	cps
Silver	107-1	9350	9427	9407	9394	0.42	cps
Silver	109-1	8549	8843	8443	8612	2.41	cps
Sodium	23-2	127363	126855	125083	126434	0.95	cps
Strontium	86-1	2680	2664	2657	2667	0.45	cps
Strontium	88-1	19804	20098	20562	20155	1.90	cps
Sulfur	34-1	505679	502692	500362	502911	0.53	cps
Terbium	159-1	19831443	19397351	19405293	19544696	1.27	cps
Terbium	159-2	5980237	5969908	6134692	6028279	1.53	cps
Thallium	203-1	7272	7529	7342	7381	1.80	cps
Thallium	205-1	17889	18186	17882	17986	0.96	cps
Tin	118-1	7292	7242	7159	7231	0.93	cps
Titanium	47-1	1220	1183	1347	1250	6.86	cps
Uranium	238-1	23231	22974	23679	23295	1.53	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-09	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-03-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:26:48	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1023	1087	1080	1063	3.27	cps
Ytterbium	172-1	110	97	120	109	10.75	cps
Ytterbium	172-2	37	33	57	42	29.89	cps
Ytterbium	176-1	2597	2574	2520	2564	1.53	cps
Ytterbium	176-2	300	327	403	343	15.63	cps
Yttrium	89-1	26997678	27357950	27322902	27226177	0.73	cps
Yttrium	89-2	1890482	1895116	1903080	1896226	0.34	cps
Zinc	66-2	843	760	653	752	12.66	cps
Zirconium	90-1	12132	13050	12793	12658	3.74	cps
Zirconium	91-1	2744	2767	2790	2767	0.84	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1297	1180	1260	1246	4.79	cps
Antimony	121-1	12182	12312	12025	12173	1.18	cps
Arsenic	75-2	213	257	230	233	9.37	cps
Barium	135-1	15806	16003	15709	15839	0.94	cps
Barium	137-1	27191	27491	28443	27708	2.36	cps
Beryllium	9-1	5204	5359	5308	5290	1.49	cps
Bismuth	209-1	12388820	12066178	12166735	12207244	1.35	cps
Bismuth	209-2	4477915	4495340	4432973	4468742	0.72	cps
Bromine	81-1	7622	7515	7139	7425	3.42	cps
Cadmium	108-1	317	260	250	276	13.05	cps
Cadmium	106-1	9036	8976	9000	9004	0.34	cps
Cadmium	111-1	4776	5037	4835	4883	2.80	cps
Calcium	43-1	5201	5141	5138	5160	0.69	cps
Calcium	44-1	85700	87078	84761	85846	1.36	cps
Carbon	12-1	3310136	3246374	3210462	3255657	1.55	cps
Carbon	12-2	22711	22260	22254	22408	1.17	cps
Chlorine	35-1	123329	121598	120792	121906	1.06	cps
Chlorine	35-2	503	467	430	467	7.86	cps
Chromium	52-2	3380	3264	3224	3289	2.48	cps
Cobalt	59-2	5114	5241	5191	5182	1.23	cps
Copper	63-2	12255	12082	12119	12152	0.75	cps
Dysprosium	156-1	7	17	10	11	45.82	cps
Dysprosium	156-2	7	0	7	4	86.60	cps
Erbium	164-1	80	77	90	82	8.44	cps
Erbium	164-2	20	27	27	24	15.75	cps
Gadolinium	160-1	70	67	67	68	2.84	cps
Gadolinium	160-2	10	7	17	11	45.82	cps
Holmium	165-1	19178472	19129600	19282608	19196893	0.41	cps
Holmium	165-2	6064414	6173101	6056933	6098149	1.07	cps
Indium	115-1	15084765	14833868	14818016	14912216	1.00	cps
Indium	115-2	1423327	1429378	1427121	1426609	0.21	cps
Iron	54-2	6318	5898	5938	6051	3.83	cps
Iron	56-2	109650	109553	109170	109458	0.23	cps
Iron	57-2	2610	2904	2774	2763	5.32	cps
Krypton	83-1	233	203	200	212	8.65	cps
Lead	206-1	12483	12409	12309	12400	0.70	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10831	11288	10938	11019	2.17	cps
Lead	208-1	49056	49881	49521	49486	0.84	cps
Lithium	6-1	9039169	9037396	8916295	8997620	0.78	cps
Magnesium	24-2	21399	21823	21453	21558	1.07	cps
Manganese	55-2	2427	2384	2340	2384	1.82	cps
Molybdenum	94-1	11552	11972	11895	11806	1.90	cps
Molybdenum	95-1	6735	6528	6845	6703	2.40	cps
Molybdenum	96-1	7906	8419	8072	8132	3.22	cps
Molybdenum	97-1	4021	4071	4097	4063	0.96	cps
Molybdenum	98-1	10221	10331	10207	10253	0.66	cps
Neodymium	150-1	30	20	27	26	19.92	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	2647	2580	2374	2534	5.63	cps
Phosphorus	31-2	150	113	113	126	16.86	cps
Potassium	39-2	14324	14764	14924	14671	2.12	cps
Rhodium	103-1	14033694	13853820	13604865	13830793	1.56	cps
Rhodium	103-2	5099057	5081397	5001987	5060814	1.02	cps
Scandium	45-1	10719333	10802012	10568656	10696667	1.11	cps
Scandium	45-2	196416	196162	196078	196219	0.09	cps
Selenium	82-1	187	170	230	196	15.84	cps
Selenium	77-2	0	7	3	3	100.05	cps
Selenium	78-2	7	20	7	11	69.25	cps
Silicon	28-1	452918	450803	457645	453789	0.77	cps
Silver	107-1	17091	16827	17034	16984	0.82	cps
Silver	109-1	16206	15953	15943	16034	0.93	cps
Sodium	23-2	63283	63280	64261	63608	0.89	cps
Strontium	86-1	4567	4444	4824	4612	4.20	cps
Strontium	88-1	36611	37497	38165	37424	2.08	cps
Sulfur	34-1	489630	492733	491523	491295	0.32	cps
Terbium	159-1	19534723	19100631	19443589	19359648	1.18	cps
Terbium	159-2	6038833	5793280	5950017	5927377	2.10	cps
Thallium	203-1	13868	13704	13567	13713	1.10	cps
Thallium	205-1	31933	32050	32684	32222	1.26	cps
Tin	118-1	12059	12549	11835	12148	3.01	cps
Titanium	47-1	2194	2140	2334	2222	4.49	cps
Uranium	238-1	42932	43718	42511	43054	1.42	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:30:12	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2004	1947	2087	2012	3.50	cps
Ytterbium	172-1	133	100	123	119	14.39	cps
Ytterbium	172-2	47	57	70	58	20.26	cps
Ytterbium	176-1	2574	2350	2570	2498	5.12	cps
Ytterbium	176-2	337	447	330	371	17.65	cps
Yttrium	89-1	27180684	27204615	27225026	27203442	0.08	cps
Yttrium	89-2	1870404	1890222	1887325	1882651	0.57	cps
Zinc	66-2	1157	1143	1157	1152	0.67	cps
Zirconium	90-1	23433	22665	23129	23076	1.68	cps
Zirconium	91-1	4934	4871	5208	5004	3.58	cps

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LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	687	703	680	690	1.74	cps
Antimony	121-1	6572	6615	6585	6591	0.34	cps
Arsenic	75-2	110	130	93	111	16.52	cps
Barium	135-1	8633	8603	8623	8619	0.18	cps
Barium	137-1	14995	14882	15015	14964	0.48	cps
Beryllium	9-1	2900	2942	2876	2906	1.16	cps
Bismuth	209-1	12216691	12352741	12226620	12265351	0.62	cps
Bismuth	209-2	4584001	4481522	4501726	4522416	1.20	cps
Bromine	81-1	7485	7559	7192	7412	2.62	cps
Cadmium	108-1	157	167	170	164	4.22	cps
Cadmium	106-1	8893	8870	8933	8899	0.36	cps
Cadmium	111-1	3336	3424	3381	3380	1.31	cps
Calcium	43-1	12429	12105	12169	12234	1.40	cps
Calcium	44-1	200785	201680	201714	201393	0.26	cps
Carbon	12-1	3350822	3294865	3261216	3302301	1.37	cps
Carbon	12-2	23152	22668	22941	22920	1.06	cps
Chlorine	35-1	113833	113708	114165	113902	0.21	cps
Chlorine	35-2	413	413	350	392	9.32	cps
Chromium	52-2	2074	2047	2047	2056	0.75	cps
Cobalt	59-2	2897	2844	2814	2851	1.48	cps
Copper	63-2	8399	8569	8659	8543	1.55	cps
Dysprosium	156-1	13	17	17	16	12.40	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	103	93	70	89	19.25	cps
Erbium	164-2	40	13	30	28	48.51	cps
Gadolinium	160-1	63	103	93	87	24.02	cps
Gadolinium	160-2	30	10	10	17	69.28	cps
Holmium	165-1	19023353	19164808	19321948	19170036	0.78	cps
Holmium	165-2	6120660	6183186	6200661	6168169	0.68	cps
Indium	115-1	15065199	14898583	14803066	14922283	0.89	cps
Indium	115-2	1454233	1449317	1450306	1451285	0.18	cps
Iron	54-2	5311	5138	5241	5230	1.67	cps
Iron	56-2	91564	91973	91038	91525	0.51	cps
Iron	57-2	2234	2144	2277	2218	3.07	cps
Krypton	83-1	160	187	180	176	7.91	cps
Lead	206-1	7469	7669	7542	7560	1.34	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6568	6779	6518	6622	2.08	cps
Lead	208-1	29794	30044	29824	29887	0.46	cps
Lithium	6-1	9197069	9008652	9048988	9084903	1.09	cps
Magnesium	24-2	54117	53702	53096	53638	0.96	cps
Manganese	55-2	1353	1250	1283	1296	4.07	cps
Molybdenum	94-1	6362	6435	6398	6398	0.57	cps
Molybdenum	95-1	3574	3540	3374	3496	3.07	cps
Molybdenum	96-1	4301	4664	4651	4539	4.54	cps
Molybdenum	97-1	2154	2094	2147	2131	1.54	cps
Molybdenum	98-1	5494	5781	5591	5622	2.60	cps
Neodymium	150-1	7	17	20	14	48.02	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	2100	1940	1960	2000	4.36	cps
Phosphorus	31-2	93	80	67	80	16.66	cps
Potassium	39-2	27416	27393	27152	27320	0.53	cps
Rhodium	103-1	13979297	13927559	13929836	13945564	0.21	cps
Rhodium	103-2	5088205	5095434	5123789	5102476	0.37	cps
Scandium	45-1	10842797	10778041	10867666	10829501	0.43	cps
Scandium	45-2	198045	198561	195629	197412	0.79	cps
Selenium	82-1	1207	1200	1187	1198	0.85	cps
Selenium	77-2	3	13	13	10	57.75	cps
Selenium	78-2	103	40	50	64	52.83	cps
Silicon	28-1	445121	446808	448318	446749	0.36	cps
Silver	107-1	9317	9313	9263	9298	0.32	cps
Silver	109-1	8626	8740	8556	8641	1.07	cps
Sodium	23-2	125218	124442	123383	124347	0.74	cps
Strontium	86-1	2607	2667	2550	2608	2.24	cps
Strontium	88-1	20428	20535	20432	20465	0.30	cps
Sulfur	34-1	489767	487830	485782	487793	0.41	cps
Terbium	159-1	19660036	19721814	19618295	19666715	0.26	cps
Terbium	159-2	6138908	6045803	5996642	6060451	1.19	cps
Thallium	203-1	7456	7309	7509	7424	1.40	cps
Thallium	205-1	17622	17555	17148	17442	1.47	cps
Tin	118-1	7139	7129	7395	7221	2.09	cps
Titanium	47-1	1417	1267	1270	1318	6.50	cps
Uranium	238-1	22700	23111	23392	23068	1.51	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-12	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-06-QT1-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:33:33	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1027	1167	1087	1093	6.42	cps
Ytterbium	172-1	113	147	83	114	27.69	cps
Ytterbium	172-2	27	53	57	46	36.09	cps
Ytterbium	176-1	2424	2554	2234	2404	6.70	cps
Ytterbium	176-2	333	330	367	343	5.91	cps
Yttrium	89-1	27571185	27404215	27437768	27471056	0.32	cps
Yttrium	89-2	1906172	1899796	1897539	1901169	0.24	cps
Zinc	66-2	820	783	773	792	3.10	cps
Zirconium	90-1	12719	12576	12753	12683	0.74	cps
Zirconium	91-1	2927	2770	2804	2834	2.91	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	710	697	827	744	9.61	cps
Antimony	121-1	6535	6648	6498	6561	1.19	cps
Arsenic	75-2	163	167	117	149	18.78	cps
Barium	135-1	8296	8433	8463	8397	1.06	cps
Barium	137-1	15082	14865	15159	15035	1.01	cps
Beryllium	9-1	2870	2936	2865	2890	1.38	cps
Bismuth	209-1	12276087	12368005	12395564	12346552	0.51	cps
Bismuth	209-2	4479511	4626066	4493112	4532896	1.79	cps
Bromine	81-1	7052	7305	7319	7225	2.08	cps
Cadmium	108-1	97	153	137	129	22.60	cps
Cadmium	106-1	8559	8813	8786	8719	1.60	cps
Cadmium	111-1	3411	3549	3415	3458	2.27	cps
Calcium	43-1	12219	12572	12412	12401	1.43	cps
Calcium	44-1	201089	203749	200083	201640	0.94	cps
Carbon	12-1	3316843	3271689	3235207	3274580	1.25	cps
Carbon	12-2	23001	22424	22611	22679	1.30	cps
Chlorine	35-1	107216	106521	104050	105929	1.57	cps
Chlorine	35-2	393	360	367	373	4.72	cps
Chromium	52-2	1957	1980	2130	2022	4.65	cps
Cobalt	59-2	2737	2887	2767	2797	2.84	cps
Copper	63-2	8409	8456	8366	8410	0.54	cps
Dysprosium	156-1	27	20	17	21	24.12	cps
Dysprosium	156-2	0	13	3	6	124.93	cps
Erbium	164-1	97	93	97	96	2.02	cps
Erbium	164-2	40	30	37	36	14.32	cps
Gadolinium	160-1	107	50	80	79	35.94	cps
Gadolinium	160-2	10	10	13	11	17.30	cps
Holmium	165-1	19076963	19449629	19362170	19296254	1.01	cps
Holmium	165-2	6146926	6355767	6154481	6219058	1.90	cps
Indium	115-1	15008633	15214540	14962436	15061870	0.89	cps
Indium	115-2	1429718	1479955	1443867	1451180	1.79	cps
Iron	54-2	5051	5051	4931	5011	1.38	cps
Iron	56-2	90528	91357	91890	91258	0.75	cps
Iron	57-2	2217	2347	2194	2252	3.67	cps
Krypton	83-1	187	193	207	196	5.21	cps
Lead	206-1	7329	7205	7292	7275	0.87	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6668	6332	6398	6466	2.76	cps
Lead	208-1	29380	29283	29520	29395	0.41	cps
Lithium	6-1	9159404	9258721	9180147	9199424	0.57	cps
Magnesium	24-2	53146	53675	53106	53309	0.60	cps
Manganese	55-2	1437	1347	1377	1387	3.30	cps
Molybdenum	94-1	6562	6672	6858	6697	2.24	cps
Molybdenum	95-1	3540	3644	3480	3555	2.32	cps
Molybdenum	96-1	4721	4537	4334	4531	4.27	cps
Molybdenum	97-1	2270	2234	2187	2230	1.87	cps
Molybdenum	98-1	5771	5588	5678	5679	1.61	cps
Neodymium	150-1	17	23	23	21	18.21	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	2060	2017	1890	1989	4.44	cps
Phosphorus	31-2	83	103	77	88	15.81	cps
Potassium	39-2	27112	26584	26605	26767	1.12	cps
Rhodium	103-1	13871425	14271039	13945634	14029366	1.52	cps
Rhodium	103-2	5016006	5201081	5145387	5120825	1.85	cps
Scandium	45-1	10615336	11046819	10822404	10828186	1.99	cps
Scandium	45-2	195649	202333	198977	198986	1.68	cps
Selenium	82-1	1340	1207	1307	1285	5.40	cps
Selenium	77-2	33	17	7	19	71.30	cps
Selenium	78-2	93	93	83	90	6.42	cps
Silicon	28-1	448922	447275	443977	446724	0.56	cps
Silver	107-1	9006	8719	9026	8917	1.93	cps
Silver	109-1	8556	8249	8479	8428	1.89	cps
Sodium	23-2	125379	122650	122522	123517	1.31	cps
Strontium	86-1	2427	2587	2594	2536	3.72	cps
Strontium	88-1	20205	20502	20368	20358	0.73	cps
Sulfur	34-1	478818	476716	477693	477742	0.22	cps
Terbium	159-1	19525185	19976466	19688413	19730022	1.16	cps
Terbium	159-2	5922845	6226793	6113688	6087775	2.52	cps
Thallium	203-1	7349	7235	7462	7349	1.54	cps
Thallium	205-1	17479	17388	17385	17417	0.30	cps
Tin	118-1	7169	6975	6932	7025	1.79	cps
Titanium	47-1	1250	1300	1260	1270	2.08	cps
Uranium	238-1	22957	23205	23081	23081	0.54	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1187-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-03-QT1-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:37:29	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1157	1157	1200	1171	2.14	cps
Ytterbium	172-1	100	110	120	110	9.09	cps
Ytterbium	172-2	13	37	40	30	48.44	cps
Ytterbium	176-1	2650	2507	2500	2552	3.32	cps
Ytterbium	176-2	417	313	393	374	14.47	cps
Yttrium	89-1	27554638	27993296	27582289	27710074	0.89	cps
Yttrium	89-2	1885050	1951029	1919165	1918415	1.72	cps
Zinc	66-2	790	773	753	772	2.38	cps
Zirconium	90-1	12479	12813	12346	12546	1.92	cps
Zirconium	91-1	2717	3037	2864	2873	5.58	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	713	767	703	728	4.68	cps
Antimony	121-1	6805	6422	6642	6623	2.91	cps
Arsenic	75-2	123	123	117	121	3.18	cps
Barium	135-1	8329	8653	8503	8495	1.91	cps
Barium	137-1	14748	14758	15139	14882	1.50	cps
Beryllium	9-1	2941	2991	2849	2927	2.47	cps
Bismuth	209-1	12319281	12302218	12197263	12272921	0.54	cps
Bismuth	209-2	4546609	4641933	4488165	4558902	1.70	cps
Bromine	81-1	7205	7355	7579	7380	2.55	cps
Cadmium	108-1	153	193	173	173	11.54	cps
Cadmium	106-1	9173	9080	8669	8974	2.99	cps
Cadmium	111-1	3471	3437	3426	3445	0.67	cps
Calcium	43-1	12432	12445	12365	12414	0.35	cps
Calcium	44-1	204837	204834	203976	204549	0.24	cps
Carbon	12-1	3291627	3268443	3236165	3265412	0.85	cps
Carbon	12-2	23415	23078	22941	23145	1.05	cps
Chlorine	35-1	104692	102768	103342	103601	0.95	cps
Chlorine	35-2	437	393	423	418	5.31	cps
Chromium	52-2	2057	2024	2080	2054	1.39	cps
Cobalt	59-2	2710	2860	2597	2723	4.85	cps
Copper	63-2	8703	8509	8326	8513	2.21	cps
Dysprosium	156-1	7	20	10	12	56.76	cps
Dysprosium	156-2	10	3	0	4	114.60	cps
Erbium	164-1	97	120	113	110	10.92	cps
Erbium	164-2	20	33	13	22	45.83	cps
Gadolinium	160-1	63	107	103	91	26.47	cps
Gadolinium	160-2	7	20	17	14	48.02	cps
Holmium	165-1	19719611	19189933	19166131	19358558	1.62	cps
Holmium	165-2	6138263	6196892	6123634	6152930	0.63	cps
Indium	115-1	15228699	15072637	14977350	15092896	0.84	cps
Indium	115-2	1451404	1452973	1455183	1453187	0.13	cps
Iron	54-2	5341	5094	5284	5240	2.47	cps
Iron	56-2	93040	92474	92517	92677	0.34	cps
Iron	57-2	2350	2377	2344	2357	0.75	cps
Krypton	83-1	220	233	173	209	15.08	cps
Lead	206-1	7532	7489	7402	7474	0.89	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6395	6475	6325	6398	1.17	cps
Lead	208-1	29774	30001	29347	29707	1.12	cps
Lithium	6-1	9225866	9233858	9066015	9175246	1.03	cps
Magnesium	24-2	53795	53929	55401	54375	1.64	cps
Manganese	55-2	1340	1370	1357	1356	1.11	cps
Molybdenum	94-1	6922	6678	6592	6731	2.54	cps
Molybdenum	95-1	3701	3577	3631	3636	1.70	cps
Molybdenum	96-1	4501	4431	4344	4425	1.77	cps
Molybdenum	97-1	2380	2167	2167	2238	5.50	cps
Molybdenum	98-1	5798	5928	5731	5819	1.72	cps
Neodymium	150-1	23	17	10	17	39.99	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	2104	2144	2147	2131	1.13	cps
Phosphorus	31-2	100	67	83	83	20.00	cps
Potassium	39-2	26875	27269	27333	27159	0.91	cps
Rhodium	103-1	14092243	14118451	13977663	14062786	0.53	cps
Rhodium	103-2	5110066	5077564	5046531	5078054	0.63	cps
Scandium	45-1	11094916	10932506	10798517	10941980	1.36	cps
Scandium	45-2	197977	196507	199170	197884	0.67	cps
Selenium	82-1	1227	1307	1290	1275	3.31	cps
Selenium	77-2	33	23	20	26	27.15	cps
Selenium	78-2	80	80	57	72	18.65	cps
Silicon	28-1	448643	447549	447792	447995	0.13	cps
Silver	107-1	9253	9166	8903	9108	2.00	cps
Silver	109-1	8833	8343	8569	8582	2.86	cps
Sodium	23-2	125967	124576	125581	125375	0.57	cps
Strontium	86-1	2927	2490	2640	2686	8.26	cps
Strontium	88-1	20111	20415	20115	20214	0.86	cps
Sulfur	34-1	487114	489198	490227	488846	0.32	cps
Terbium	159-1	20116648	19685041	20005551	19935747	1.12	cps
Terbium	159-2	6084053	6046935	6038541	6056510	0.40	cps
Thallium	203-1	7132	7262	7242	7212	0.97	cps
Thallium	205-1	17348	17582	17185	17372	1.15	cps
Tin	118-1	7109	7265	7135	7170	1.17	cps
Titanium	47-1	1317	1307	1327	1317	0.76	cps
Uranium	238-1	22754	23355	23422	23177	1.59	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-02	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT1-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:41:31	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1090	1203	1163	1152	4.99	cps
Ytterbium	172-1	147	97	130	124	20.46	cps
Ytterbium	172-2	47	53	27	42	32.86	cps
Ytterbium	176-1	2370	2600	2457	2476	4.69	cps
Ytterbium	176-2	353	340	347	347	1.92	cps
Yttrium	89-1	27946738	27700115	27109879	27585577	1.56	cps
Yttrium	89-2	1921669	1938571	1913612	1924617	0.66	cps
Zinc	66-2	810	773	807	797	2.55	cps
Zirconium	90-1	12406	12886	12185	12492	2.87	cps
Zirconium	91-1	2830	3007	2684	2840	5.70	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	783	633	700	706	10.65	cps
Antimony	121-1	6815	6722	6685	6741	1.00	cps
Arsenic	75-2	130	123	97	117	15.12	cps
Barium	135-1	8589	8453	8560	8534	0.84	cps
Barium	137-1	14575	15042	15259	14958	2.34	cps
Beryllium	9-1	2947	2910	2980	2946	1.19	cps
Bismuth	209-1	12277181	12261429	12177836	12238816	0.44	cps
Bismuth	209-2	4517416	4502377	4483670	4501154	0.38	cps
Bromine	81-1	7409	7382	7592	7461	1.53	cps
Cadmium	108-1	177	173	180	177	1.88	cps
Cadmium	106-1	8883	8993	8703	8860	1.65	cps
Cadmium	111-1	3270	3351	3375	3332	1.65	cps
Calcium	43-1	12509	12712	12632	12618	0.81	cps
Calcium	44-1	202116	202069	203093	202426	0.29	cps
Carbon	12-1	3350120	3303149	3331165	3328145	0.71	cps
Carbon	12-2	22794	23222	23505	23174	1.54	cps
Chlorine	35-1	103120	104228	103144	103497	0.61	cps
Chlorine	35-2	403	373	370	382	4.80	cps
Chromium	52-2	1960	2000	1867	1942	3.52	cps
Cobalt	59-2	2867	2914	2727	2836	3.43	cps
Copper	63-2	8806	8573	8623	8667	1.42	cps
Dysprosium	156-1	20	3	7	10	88.20	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	83	97	97	92	8.35	cps
Erbium	164-2	20	23	10	18	39.03	cps
Gadolinium	160-1	63	57	93	71	27.46	cps
Gadolinium	160-2	3	13	7	8	65.47	cps
Holmium	165-1	19076871	19167783	19249182	19164612	0.45	cps
Holmium	165-2	6200125	6123504	6141330	6154986	0.65	cps
Indium	115-1	15007710	15094237	14956944	15019630	0.46	cps
Indium	115-2	1450810	1457117	1441130	1449685	0.56	cps
Iron	54-2	4584	5118	5131	4944	6.31	cps
Iron	56-2	91223	92235	92685	92048	0.81	cps
Iron	57-2	2290	2320	2284	2298	0.85	cps
Krypton	83-1	163	223	193	193	15.52	cps
Lead	206-1	7195	7332	7579	7369	2.64	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6532	6652	6528	6571	1.07	cps
Lead	208-1	30037	29620	30207	29955	1.01	cps
Lithium	6-1	9128376	9132633	9094623	9118544	0.23	cps
Magnesium	24-2	54662	53976	53441	54026	1.13	cps
Manganese	55-2	1220	1387	1257	1288	6.80	cps
Molybdenum	94-1	6488	6528	6698	6572	1.70	cps
Molybdenum	95-1	3644	3611	3580	3612	0.88	cps
Molybdenum	96-1	4511	4581	4691	4594	1.98	cps
Molybdenum	97-1	2177	2370	2350	2299	4.63	cps
Molybdenum	98-1	5761	5745	5688	5731	0.67	cps
Neodymium	150-1	20	20	10	17	34.64	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	1920	1977	2014	1970	2.39	cps
Phosphorus	31-2	70	93	77	80	15.02	cps
Potassium	39-2	27082	27035	26825	26981	0.51	cps
Rhodium	103-1	13799667	13897285	14010944	13902632	0.76	cps
Rhodium	103-2	5076094	5119921	5060341	5085452	0.61	cps
Scandium	45-1	10848649	10694983	10782363	10775332	0.72	cps
Scandium	45-2	200711	198162	197672	198848	0.82	cps
Selenium	82-1	1380	1213	1120	1238	10.64	cps
Selenium	77-2	17	17	27	20	28.86	cps
Selenium	78-2	60	60	37	52	25.79	cps
Silicon	28-1	449657	463610	445903	453057	2.06	cps
Silver	107-1	9096	9016	9333	9149	1.80	cps
Silver	109-1	8429	8766	8599	8598	1.96	cps
Sodium	23-2	123776	125770	123900	124482	0.90	cps
Strontium	86-1	2424	2700	2694	2606	6.06	cps
Strontium	88-1	19998	20579	20235	20270	1.44	cps
Sulfur	34-1	496782	496498	499365	497548	0.32	cps
Terbium	159-1	19801306	19531169	19641578	19658017	0.69	cps
Terbium	159-2	6078925	6102338	5964835	6048699	1.22	cps
Thallium	203-1	7342	7399	7145	7295	1.82	cps
Thallium	205-1	17472	17175	17515	17387	1.07	cps
Tin	118-1	7259	6948	7329	7179	2.82	cps
Titanium	47-1	1330	1323	1353	1336	1.18	cps
Uranium	238-1	23462	23619	23058	23379	1.24	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	P1601-04	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT1-2024-02	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:44:56	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1177	967	1153	1099	10.47	cps
Ytterbium	172-1	117	97	97	103	11.17	cps
Ytterbium	172-2	63	40	37	47	31.13	cps
Ytterbium	176-1	2517	2600	2637	2585	2.38	cps
Ytterbium	176-2	303	333	400	346	14.32	cps
Yttrium	89-1	27551861	27356405	27422142	27443470	0.36	cps
Yttrium	89-2	1912467	1878349	1897934	1896250	0.90	cps
Zinc	66-2	870	770	733	791	8.94	cps
Zirconium	90-1	12796	12486	12292	12525	2.03	cps
Zirconium	91-1	2704	2780	2767	2750	1.49	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110	77	77	88	21.92	cps
Antimony	121-1	77	73	70	73	4.55	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	293	253	313	287	10.66	cps
Barium	137-1	393	363	360	372	4.93	cps
Beryllium	9-1	290	277	254	274	6.73	cps
Bismuth	209-1	12246516	12284921	11942089	12157842	1.54	cps
Bismuth	209-2	4588929	4356532	4407131	4450864	2.75	cps
Bromine	81-1	7742	7222	6998	7321	5.21	cps
Cadmium	108-1	30	27	17	24	28.38	cps
Cadmium	106-1	8893	9100	8716	8903	2.16	cps
Cadmium	111-1	1768	1821	1748	1779	2.13	cps
Calcium	43-1	547	467	503	506	7.92	cps
Calcium	44-1	10257	10604	10397	10419	1.68	cps
Carbon	12-1	3410232	3330612	3286597	3342480	1.87	cps
Carbon	12-2	23502	22414	23192	23036	2.43	cps
Chlorine	35-1	99307	98429	99283	99006	0.51	cps
Chlorine	35-2	367	327	357	350	5.95	cps
Chromium	52-2	573	567	607	582	3.68	cps
Cobalt	59-2	53	43	43	47	12.37	cps
Copper	63-2	4354	4111	4201	4222	2.92	cps
Dysprosium	156-1	23	17	13	18	28.64	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	67	90	60	72	21.81	cps
Erbium	164-2	27	23	20	23	14.29	cps
Gadolinium	160-1	87	63	67	72	17.48	cps
Gadolinium	160-2	27	13	10	17	52.93	cps
Holmium	165-1	19434477	19060029	18903458	19132655	1.43	cps
Holmium	165-2	6350779	5908403	5937107	6065430	4.08	cps
Indium	115-1	14954535	14628489	14792366	14791797	1.10	cps
Indium	115-2	1479084	1376306	1397532	1417641	3.83	cps
Iron	54-2	287	287	353	309	12.46	cps
Iron	56-2	3731	3527	3487	3582	3.64	cps
Iron	57-2	87	73	73	78	9.90	cps
Krypton	83-1	157	227	170	184	20.15	cps
Lead	206-1	1710	1690	1607	1669	3.28	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1553	1453	1597	1535	4.79	cps
Lead	208-1	6691	6687	6864	6747	1.50	cps
Lithium	6-1	8879903	9037354	9110368	9009208	1.31	cps
Magnesium	24-2	570	590	603	588	2.85	cps
Manganese	55-2	127	113	50	97	42.37	cps
Molybdenum	94-1	360	380	370	370	2.70	cps
Molybdenum	95-1	163	157	173	164	5.10	cps
Molybdenum	96-1	170	190	173	178	6.03	cps
Molybdenum	97-1	67	90	77	78	15.05	cps
Molybdenum	98-1	193	217	147	186	19.21	cps
Neodymium	150-1	10	10	13	11	17.30	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	1287	1223	1230	1247	2.79	cps
Phosphorus	31-2	57	43	40	47	18.90	cps
Potassium	39-2	8623	9116	8709	8816	2.99	cps
Rhodium	103-1	14006564	13688962	13889377	13861635	1.16	cps
Rhodium	103-2	5219284	4836393	4915120	4990266	4.05	cps
Scandium	45-1	10765732	10756244	10560124	10694033	1.09	cps
Scandium	45-2	199704	188662	190255	192874	3.09	cps
Selenium	82-1	70	-73	43	13	571.58	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	3	3	4	43.40	cps
Silicon	28-1	436469	437685	435974	436710	0.20	cps
Silver	107-1	380	327	293	333	13.12	cps
Silver	109-1	203	210	203	206	1.87	cps
Sodium	23-2	22397	22164	22344	22302	0.55	cps
Strontium	86-1	257	397	337	330	21.29	cps
Strontium	88-1	297	330	400	342	15.41	cps
Sulfur	34-1	493180	497864	499830	496958	0.69	cps
Terbium	159-1	19357097	19340561	19363281	19353646	0.06	cps
Terbium	159-2	6117210	5759739	5876494	5917814	3.08	cps
Thallium	203-1	260	280	347	296	15.35	cps
Thallium	205-1	630	617	780	676	13.43	cps
Tin	118-1	1337	1437	1470	1415	4.91	cps
Titanium	47-1	193	187	153	178	12.05	cps
Uranium	238-1	33	43	27	34	24.35	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:48:17	DataFile Name :	031CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	10	13	12	15.73	cps
Ytterbium	172-1	133	123	107	121	11.12	cps
Ytterbium	172-2	23	50	47	40	36.33	cps
Ytterbium	176-1	2677	2430	2507	2538	4.98	cps
Ytterbium	176-2	347	290	340	326	9.51	cps
Yttrium	89-1	27494970	26969521	27350914	27271802	1.00	cps
Yttrium	89-2	1962711	1810525	1811757	1861664	4.70	cps
Zinc	66-2	400	367	447	404	9.94	cps
Zirconium	90-1	833	980	890	901	8.21	cps
Zirconium	91-1	193	177	197	189	5.67	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3593403	3602966	3563583	3586651	0.57	cps
Antimony	121-1	7300388	7238014	7251199	7263200	0.45	cps
Arsenic	75-2	134955	135480	136631	135689	0.63	cps
Barium	135-1	9542373	9541674	9488342	9524130	0.33	cps
Barium	137-1	16532616	16682195	16528424	16581078	0.53	cps
Beryllium	9-1	2822706	2833671	2816161	2824179	0.31	cps
Bismuth	209-1	10390951	10478100	10261097	10376716	1.05	cps
Bismuth	209-2	3622243	3760499	3839187	3740643	2.94	cps
Bromine	81-1	7565	7786	7839	7730	1.88	cps
Cadmium	108-1	154080	151694	150440	152072	1.22	cps
Cadmium	106-1	217814	219799	219087	218900	0.46	cps
Cadmium	111-1	1786885	1769313	1796393	1784197	0.77	cps
Calcium	43-1	13743759	13711800	13709998	13721852	0.14	cps
Calcium	44-1	225504977	224662770	224349057	224838934	0.27	cps
Carbon	12-1	3988243	4052031	4149740	4063338	2.00	cps
Carbon	12-2	34434	34096	34410	34313	0.55	cps
Chlorine	35-1	113218	113564	114418	113733	0.54	cps
Chlorine	35-2	457	523	460	480	7.83	cps
Chromium	52-2	1688583	1679104	1664723	1677470	0.72	cps
Cobalt	59-2	2954508	3011149	2963262	2976306	1.02	cps
Copper	63-2	21108140	21318541	21290462	21239047	0.54	cps
Dysprosium	156-1	377	500	500	459	15.52	cps
Dysprosium	156-2	123	113	80	106	21.50	cps
Erbium	164-1	413	437	477	442	7.24	cps
Erbium	164-2	83	123	153	120	29.27	cps
Gadolinium	160-1	453	360	367	393	13.24	cps
Gadolinium	160-2	133	117	120	123	7.15	cps
Holmium	165-1	18443113	18206833	18323366	18324437	0.64	cps
Holmium	165-2	5705492	5821457	5977191	5834713	2.34	cps
Indium	115-1	13346092	13244690	13105320	13232034	0.91	cps
Indium	115-2	1228637	1277283	1304528	1270149	3.03	cps
Iron	54-2	16588524	16620790	16554056	16587790	0.20	cps
Iron	56-2	309148649	304331309	306880755	306786904	0.79	cps
Iron	57-2	7679370	7654829	7641182	7658460	0.25	cps
Krypton	83-1	277	350	260	296	16.20	cps
Lead	206-1	31068800	31123412	31234030	31142080	0.27	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26845555	26941704	26967146	26918135	0.24	cps
Lead	208-1	124609658	124716026	123881126	124402270	0.37	cps
Lithium	6-1	7617038	7696749	7604851	7639546	0.65	cps
Magnesium	24-2	59596664	59386277	59756871	59579937	0.31	cps
Manganese	55-2	7033592	7009388	7083105	7042028	0.53	cps
Molybdenum	94-1	27575283	27444037	27498693	27506004	0.24	cps
Molybdenum	95-1	39204420	39316689	39265254	39262121	0.14	cps
Molybdenum	96-1	43362103	42967529	42956723	43095452	0.54	cps
Molybdenum	97-1	24599967	24282387	24733022	24538459	0.94	cps
Molybdenum	98-1	65354786	64580122	65185241	65040050	0.63	cps
Neodymium	150-1	1003	933	1010	982	4.32	cps
Neodymium	150-2	97	53	67	72	30.73	cps
Nickel	60-2	774789	773981	773472	774080	0.09	cps
Phosphorus	31-2	30833	29908	30950	30563	1.87	cps
Potassium	39-2	17034070	16933899	17242120	17070030	0.92	cps
Rhodium	103-1	11808931	11459160	11505005	11591032	1.64	cps
Rhodium	103-2	4145487	4275988	4309681	4243718	2.04	cps
Scandium	45-1	9951705	9735121	9668989	9785272	1.51	cps
Scandium	45-2	178156	183651	183468	181758	1.72	cps
Selenium	82-1	118148	118558	117348	118018	0.52	cps
Selenium	77-2	1907	2000	2030	1979	3.25	cps
Selenium	78-2	6968	6552	6708	6743	3.12	cps
Silicon	28-1	29984863	29887890	29690510	29854421	0.50	cps
Silver	107-1	9326019	9324154	9235780	9295318	0.55	cps
Silver	109-1	8780828	8700090	8817737	8766218	0.69	cps
Sodium	23-2	117881882	117421935	118825758	118043192	0.61	cps
Strontium	86-1	2826350	2830800	2820686	2825946	0.18	cps
Strontium	88-1	24089773	23921260	23621284	23877439	0.99	cps
Sulfur	34-1	1185797	1156403	1149054	1163751	1.67	cps
Terbium	159-1	18325795	18371580	18302622	18333332	0.19	cps
Terbium	159-2	5531559	5689719	5677219	5632833	1.56	cps
Thallium	203-1	8033671	7985314	7956229	7991738	0.49	cps
Thallium	205-1	18526282	18873436	18922460	18774059	1.15	cps
Tin	118-1	6307841	6209309	6397482	6304877	1.49	cps
Titanium	47-1	12384619	12421041	12413237	12406299	0.15	cps
Uranium	238-1	27153737	27183690	27297737	27211722	0.28	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:51:40	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1282361	1272834	1279360	1278185	0.38	cps
Ytterbium	172-1	427	537	583	516	15.60	cps
Ytterbium	172-2	193	227	207	209	8.03	cps
Ytterbium	176-1	40361	40295	40692	40449	0.53	cps
Ytterbium	176-2	12863	12880	12586	12776	1.29	cps
Yttrium	89-1	25968555	25488320	25138918	25531931	1.63	cps
Yttrium	89-2	1752739	1784888	1834194	1790607	2.29	cps
Zinc	66-2	2241633	2241530	2295293	2259485	1.37	cps
Zirconium	90-1	13953448	14155378	14073831	14060886	0.72	cps
Zirconium	91-1	3086998	3165183	3128684	3126955	1.25	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	170	143	163	159	8.73	cps
Antimony	121-1	1923	1597	1397	1639	16.22	cps
Arsenic	75-2	3	13	0	6	124.93	cps
Barium	135-1	487	397	337	407	18.57	cps
Barium	137-1	710	667	623	667	6.50	cps
Beryllium	9-1	722	666	624	671	7.38	cps
Bismuth	209-1	12484237	12262934	12371543	12372905	0.89	cps
Bismuth	209-2	4602964	4672446	4577221	4617544	1.07	cps
Bromine	81-1	7712	8182	8046	7980	3.03	cps
Cadmium	108-1	47	40	23	37	32.79	cps
Cadmium	106-1	8303	8353	8313	8323	0.32	cps
Cadmium	111-1	1781	1736	1740	1752	1.44	cps
Calcium	43-1	857	940	767	854	10.15	cps
Calcium	44-1	17885	16389	14931	16402	9.00	cps
Carbon	12-1	3445500	3408300	3326994	3393598	1.79	cps
Carbon	12-2	24197	23966	23956	24040	0.57	cps
Chlorine	35-1	93509	94150	93288	93649	0.48	cps
Chlorine	35-2	323	290	420	344	19.60	cps
Chromium	52-2	537	577	610	574	6.39	cps
Cobalt	59-2	120	167	107	131	24.03	cps
Copper	63-2	5601	5171	5284	5352	4.17	cps
Dysprosium	156-1	20	23	3	16	68.90	cps
Dysprosium	156-2	10	0	3	4	114.60	cps
Erbium	164-1	130	90	97	106	20.30	cps
Erbium	164-2	30	40	43	38	18.36	cps
Gadolinium	160-1	103	77	97	92	15.05	cps
Gadolinium	160-2	27	10	30	22	48.22	cps
Holmium	165-1	19692061	19359635	19022893	19358197	1.73	cps
Holmium	165-2	6304933	6316126	6264351	6295137	0.43	cps
Indium	115-1	15441705	15227570	15158946	15276074	0.97	cps
Indium	115-2	1490135	1492491	1488657	1490428	0.13	cps
Iron	54-2	827	640	770	746	12.84	cps
Iron	56-2	11094	11134	11151	11127	0.26	cps
Iron	57-2	307	280	313	300	5.88	cps
Krypton	83-1	227	193	187	202	10.60	cps
Lead	206-1	4871	4454	3914	4413	10.87	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4361	3787	3601	3916	10.12	cps
Lead	208-1	19763	17735	16077	17858	10.34	cps
Lithium	6-1	8800640	8693123	8612097	8701954	1.09	cps
Magnesium	24-2	1877	1807	1823	1836	1.99	cps
Manganese	55-2	307	320	237	288	15.56	cps
Molybdenum	94-1	2350	2100	1783	2078	13.67	cps
Molybdenum	95-1	2687	2310	2074	2357	13.13	cps
Molybdenum	96-1	2960	2724	2157	2614	15.80	cps
Molybdenum	97-1	1567	1307	1173	1349	14.83	cps
Molybdenum	98-1	4384	3507	3064	3652	18.40	cps
Neodymium	150-1	20	20	17	19	10.18	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1373	1200	1130	1235	10.15	cps
Phosphorus	31-2	90	33	40	54	56.89	cps
Potassium	39-2	10150	9944	9980	10025	1.10	cps
Rhodium	103-1	14265478	13998849	13985501	14083276	1.12	cps
Rhodium	103-2	5222662	5176700	5166023	5188461	0.58	cps
Scandium	45-1	11032714	10733789	10965614	10910706	1.44	cps
Scandium	45-2	197990	199383	202854	200076	1.25	cps
Selenium	82-1	17	7	47	23	89.23	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	13	3	7	86.65	cps
Silicon	28-1	447161	445152	442342	444885	0.54	cps
Silver	107-1	1933	1600	1250	1595	21.43	cps
Silver	109-1	1757	1347	1077	1393	24.58	cps
Sodium	23-2	33442	33495	32950	33296	0.90	cps
Strontium	86-1	383	473	350	402	15.86	cps
Strontium	88-1	1257	1127	947	1110	14.02	cps
Sulfur	34-1	410614	414466	417788	414289	0.87	cps
Terbium	159-1	19968796	19685096	19895740	19849877	0.74	cps
Terbium	159-2	6180934	6121681	6181463	6161360	0.56	cps
Thallium	203-1	910	760	757	809	10.83	cps
Thallium	205-1	2224	1994	1643	1954	14.95	cps
Tin	118-1	1663	2171	1690	1842	15.51	cps
Titanium	47-1	730	627	440	599	24.54	cps
Uranium	238-1	1153	843	783	927	21.43	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 14:54:26	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	33	63	20	39	57.07	cps
Ytterbium	172-1	80	110	113	101	18.16	cps
Ytterbium	172-2	20	43	30	31	37.62	cps
Ytterbium	176-1	2487	2357	2407	2417	2.71	cps
Ytterbium	176-2	343	360	323	342	5.36	cps
Yttrium	89-1	28113411	27494295	27448738	27685482	1.34	cps
Yttrium	89-2	1994683	1956656	1946160	1965833	1.30	cps
Zinc	66-2	383	407	367	386	5.21	cps
Zirconium	90-1	2704	2314	2294	2437	9.49	cps
Zirconium	91-1	630	460	500	530	16.77	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3274	3230	3394	3299	2.57	cps
Antimony	121-1	64859	65790	65231	65294	0.72	cps
Arsenic	75-2	700	680	680	687	1.68	cps
Barium	135-1	82130	84786	84307	83741	1.69	cps
Barium	137-1	147463	147669	146530	147221	0.41	cps
Beryllium	9-1	13517	13885	13610	13670	1.40	cps
Bismuth	209-1	12138962	12108707	11887970	12045213	1.14	cps
Bismuth	209-2	4537699	4639075	4601958	4592911	1.12	cps
Bromine	81-1	7852	8022	7766	7880	1.66	cps
Cadmium	108-1	780	727	710	739	4.95	cps
Cadmium	106-1	10110	9690	9260	9687	4.39	cps
Cadmium	111-1	10132	10376	9954	10154	2.08	cps
Calcium	43-1	62920	63238	63282	63147	0.31	cps
Calcium	44-1	1022158	1030624	1034587	1029123	0.62	cps
Carbon	12-1	3417542	3392252	3360502	3390099	0.84	cps
Carbon	12-2	24093	23579	23566	23746	1.27	cps
Chlorine	35-1	1538099	1710744	1786974	1678606	7.60	cps
Chlorine	35-2	7609	7652	7615	7625	0.31	cps
Chromium	52-2	14864	14978	14734	14859	0.82	cps
Cobalt	59-2	13940	13880	14254	14025	1.43	cps
Copper	63-2	27423	27146	27163	27244	0.57	cps
Dysprosium	156-1	17	30	30	26	30.11	cps
Dysprosium	156-2	13	3	13	10	57.75	cps
Erbium	164-1	140	83	57	93	45.60	cps
Erbium	164-2	57	37	20	38	48.60	cps
Gadolinium	160-1	87	60	80	76	18.37	cps
Gadolinium	160-2	37	20	30	29	29.04	cps
Holmium	165-1	19428068	19256235	18594100	19092801	2.31	cps
Holmium	165-2	6150879	6319931	6160226	6210346	1.53	cps
Indium	115-1	14905574	15129913	14680004	14905163	1.51	cps
Indium	115-2	1469993	1490016	1462353	1474121	0.97	cps
Iron	54-2	62352	61739	62941	62344	0.96	cps
Iron	56-2	1140792	1141963	1140257	1141004	0.08	cps
Iron	57-2	28438	28185	28776	28466	1.04	cps
Krypton	83-1	163	167	187	172	7.33	cps
Lead	206-1	30352	30439	30182	30324	0.43	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26176	26447	27062	26562	1.71	cps
Lead	208-1	121403	121040	122332	121592	0.55	cps
Lithium	6-1	9027651	8951403	8804991	8928015	1.27	cps
Magnesium	24-2	260922	263579	263371	262624	0.56	cps
Manganese	55-2	3197	3384	3474	3352	4.21	cps
Molybdenum	94-1	71402	71666	71107	71392	0.39	cps
Molybdenum	95-1	86490	86577	88379	87148	1.22	cps
Molybdenum	96-1	95727	95478	96941	96049	0.82	cps
Molybdenum	97-1	54041	54684	53820	54182	0.83	cps
Molybdenum	98-1	139546	140546	139974	140022	0.36	cps
Neodymium	150-1	17	20	27	21	24.12	cps
Neodymium	150-2	0	10	10	7	86.60	cps
Nickel	60-2	5071	5184	4964	5073	2.17	cps
Phosphorus	31-2	253	227	223	234	7.01	cps
Potassium	39-2	160057	158722	159423	159400	0.42	cps
Rhodium	103-1	13975595	13860702	13561348	13799215	1.55	cps
Rhodium	103-2	5156256	5282609	5046409	5161758	2.29	cps
Scandium	45-1	10794798	10725312	10476083	10665398	1.57	cps
Scandium	45-2	198869	202624	199521	200338	1.00	cps
Selenium	82-1	2907	2847	2907	2887	1.20	cps
Selenium	77-2	27	30	67	41	53.99	cps
Selenium	78-2	187	160	133	160	16.67	cps
Silicon	28-1	800406	800476	796098	798993	0.31	cps
Silver	107-1	44033	44455	45204	44564	1.33	cps
Silver	109-1	42007	42860	42525	42464	1.01	cps
Sodium	23-2	552978	547691	545785	548818	0.68	cps
Strontium	86-1	12099	12346	12139	12194	1.09	cps
Strontium	88-1	101398	100649	102905	101651	1.13	cps
Sulfur	34-1	500163	497635	496759	498186	0.35	cps
Terbium	159-1	19525983	19634270	19239073	19466442	1.05	cps
Terbium	159-2	6141736	6190606	6182759	6171700	0.43	cps
Thallium	203-1	35906	36304	36712	36307	1.11	cps
Thallium	205-1	84781	87254	86093	86043	1.44	cps
Tin	118-1	143900	142233	143112	143081	0.58	cps
Titanium	47-1	28812	28856	28956	28875	0.26	cps
Uranium	238-1	115104	114416	117214	115578	1.26	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:25:30	DataFile Name :	039LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	28769	28929	28478	28725	0.80	cps
Ytterbium	172-1	150	123	90	121	24.82	cps
Ytterbium	172-2	30	37	77	48	52.83	cps
Ytterbium	176-1	2587	2847	2707	2714	4.80	cps
Ytterbium	176-2	353	433	437	408	11.57	cps
Yttrium	89-1	27857020	27405052	26531585	27264552	2.47	cps
Yttrium	89-2	1950318	1940154	1923820	1938097	0.69	cps
Zinc	66-2	6211	5915	5961	6029	2.65	cps
Zirconium	90-1	61726	61635	63015	62125	1.24	cps
Zirconium	91-1	13774	14081	13543	13799	1.95	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	70	87	100	86	17.57	cps
Antimony	121-1	120	90	70	93	26.96	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	250	247	233	243	3.62	cps
Barium	137-1	367	353	440	387	12.07	cps
Beryllium	9-1	284	320	272	292	8.50	cps
Bismuth	209-1	12520727	12390657	12366364	12425916	0.67	cps
Bismuth	209-2	4583804	4592024	4503185	4559671	1.08	cps
Bromine	81-1	7746	7679	7602	7676	0.94	cps
Cadmium	108-1	23	20	23	22	8.65	cps
Cadmium	106-1	9040	8883	8770	8897	1.52	cps
Cadmium	111-1	1798	1776	1738	1771	1.73	cps
Calcium	43-1	480	440	453	458	4.45	cps
Calcium	44-1	10140	9687	9920	9916	2.29	cps
Carbon	12-1	3313622	3285821	3273853	3291098	0.62	cps
Carbon	12-2	23095	23185	23102	23127	0.22	cps
Chlorine	35-1	219355	200468	185033	201619	8.53	cps
Chlorine	35-2	600	590	660	617	6.14	cps
Chromium	52-2	470	517	573	520	9.95	cps
Cobalt	59-2	83	60	53	66	24.03	cps
Copper	63-2	4121	3854	4114	4029	3.78	cps
Dysprosium	156-1	3	10	20	11	75.52	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	120	110	110	113	5.09	cps
Erbium	164-2	40	30	33	34	14.78	cps
Gadolinium	160-1	113	53	80	82	36.57	cps
Gadolinium	160-2	17	10	10	12	31.50	cps
Holmium	165-1	19606604	19405403	19387074	19466361	0.63	cps
Holmium	165-2	6275471	6284115	6159524	6239703	1.11	cps
Indium	115-1	15470183	15217066	15162720	15283323	1.07	cps
Indium	115-2	1465819	1473321	1461242	1466794	0.42	cps
Iron	54-2	290	233	290	271	12.07	cps
Iron	56-2	3407	3424	3424	3418	0.28	cps
Iron	57-2	117	113	63	98	30.56	cps
Krypton	83-1	217	143	167	176	21.34	cps
Lead	206-1	1617	1700	1623	1647	2.81	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1457	1373	1383	1405	3.24	cps
Lead	208-1	6474	6614	6427	6505	1.49	cps
Lithium	6-1	9058012	9025794	8924266	9002691	0.78	cps
Magnesium	24-2	613	647	593	618	4.36	cps
Manganese	55-2	57	67	67	63	9.12	cps
Molybdenum	94-1	357	327	383	356	7.97	cps
Molybdenum	95-1	170	140	150	153	9.96	cps
Molybdenum	96-1	210	157	263	210	25.40	cps
Molybdenum	97-1	73	33	70	59	37.69	cps
Molybdenum	98-1	190	200	267	219	19.04	cps
Neodymium	150-1	13	7	17	12	41.65	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	1163	1107	1413	1228	13.29	cps
Phosphorus	31-2	53	57	53	54	3.54	cps
Potassium	39-2	8296	8839	8639	8592	3.20	cps
Rhodium	103-1	14327017	13993530	14016940	14112496	1.32	cps
Rhodium	103-2	5106653	5151513	5136618	5131595	0.45	cps
Scandium	45-1	10942303	10836327	10845140	10874590	0.54	cps
Scandium	45-2	195895	201011	200451	199119	1.41	cps
Selenium	82-1	-17	30	40	18	170.15	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	0	1	173.21	cps
Silicon	28-1	435525	435866	435526	435639	0.05	cps
Silver	107-1	490	383	400	424	13.52	cps
Silver	109-1	233	253	227	238	5.84	cps
Sodium	23-2	22344	22795	22881	22673	1.27	cps
Strontium	86-1	280	420	310	337	21.89	cps
Strontium	88-1	317	270	323	303	9.58	cps
Sulfur	34-1	484417	481865	479380	481887	0.52	cps
Terbium	159-1	20402525	19574741	19892404	19956557	2.09	cps
Terbium	159-2	6100841	6136773	6185058	6140891	0.69	cps
Thallium	203-1	460	403	470	444	8.09	cps
Thallium	205-1	1097	860	947	968	12.37	cps
Tin	118-1	1500	1557	1470	1509	2.92	cps
Titanium	47-1	197	163	183	181	9.26	cps
Uranium	238-1	33	27	20	27	24.99	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:28:50	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	20	0	10	100.00	cps
Ytterbium	172-1	153	100	143	132	21.44	cps
Ytterbium	172-2	30	43	40	38	18.36	cps
Ytterbium	176-1	2614	2554	2497	2555	2.28	cps
Ytterbium	176-2	330	390	373	364	8.50	cps
Yttrium	89-1	28052177	27564310	27361421	27659303	1.28	cps
Yttrium	89-2	1925974	1943623	1919085	1929561	0.66	cps
Zinc	66-2	383	333	420	379	11.48	cps
Zirconium	90-1	977	893	1023	964	6.83	cps
Zirconium	91-1	170	173	180	174	2.92	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3427	3437	3144	3336	4.99	cps
Antimony	121-1	64880	64832	65539	65084	0.61	cps
Arsenic	75-2	587	703	700	663	10.01	cps
Barium	135-1	83357	83234	84994	83862	1.17	cps
Barium	137-1	145054	148201	145931	146395	1.11	cps
Beryllium	9-1	13766	13720	13646	13710	0.44	cps
Bismuth	209-1	12372911	12142226	12372149	12295762	1.08	cps
Bismuth	209-2	4311452	4481995	4487416	4426954	2.26	cps
Bromine	81-1	7776	7552	7369	7565	2.69	cps
Cadmium	108-1	673	770	697	713	7.07	cps
Cadmium	106-1	10020	9357	9897	9758	3.62	cps
Cadmium	111-1	10212	10065	10121	10133	0.73	cps
Calcium	43-1	62612	61983	63462	62686	1.18	cps
Calcium	44-1	1012963	1015945	1019731	1016213	0.33	cps
Carbon	12-1	3493644	3410645	3394977	3433089	1.54	cps
Carbon	12-2	23506	23779	23556	23613	0.62	cps
Chlorine	35-1	1632809	1835985	1913518	1794104	8.08	cps
Chlorine	35-2	7759	8089	8196	8015	2.84	cps
Chromium	52-2	15171	14571	14761	14834	2.07	cps
Cobalt	59-2	13873	13690	13904	13822	0.84	cps
Copper	63-2	27199	26708	27396	27101	1.31	cps
Dysprosium	156-1	33	20	30	28	24.98	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	97	80	70	82	16.39	cps
Erbium	164-2	17	40	27	28	42.13	cps
Gadolinium	160-1	83	70	73	76	9.18	cps
Gadolinium	160-2	17	23	23	21	18.21	cps
Holmium	165-1	19240182	19155478	19432677	19276112	0.74	cps
Holmium	165-2	5853948	6227684	6145301	6075645	3.23	cps
Indium	115-1	15243135	15148962	15291955	15228017	0.48	cps
Indium	115-2	1381048	1451748	1459795	1430863	3.03	cps
Iron	54-2	62074	62328	60979	61794	1.16	cps
Iron	56-2	1135365	1134692	1131306	1133788	0.19	cps
Iron	57-2	28405	28078	28332	28271	0.61	cps
Krypton	83-1	143	227	193	188	22.34	cps
Lead	206-1	30847	31144	30536	30842	0.99	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26664	26437	26227	26443	0.83	cps
Lead	208-1	120818	121347	121664	121276	0.35	cps
Lithium	6-1	9046264	9090210	9035184	9057219	0.32	cps
Magnesium	24-2	262513	260626	260366	261169	0.45	cps
Manganese	55-2	3160	3290	3287	3246	2.28	cps
Molybdenum	94-1	70092	70022	71341	70485	1.05	cps
Molybdenum	95-1	86339	85222	85266	85609	0.74	cps
Molybdenum	96-1	94290	95388	94760	94813	0.58	cps
Molybdenum	97-1	52917	53034	53814	53255	0.92	cps
Molybdenum	98-1	137951	138294	138385	138210	0.17	cps
Neodymium	150-1	37	43	27	36	23.58	cps
Neodymium	150-2	7	7	0	4	86.60	cps
Nickel	60-2	4991	5101	4851	4981	2.52	cps
Phosphorus	31-2	223	220	237	227	3.89	cps
Potassium	39-2	157576	158657	156377	157537	0.72	cps
Rhodium	103-1	14056894	14064263	14059536	14060231	0.03	cps
Rhodium	103-2	4888306	5145982	5076531	5036940	2.65	cps
Scandium	45-1	10998736	10751192	10893827	10881252	1.14	cps
Scandium	45-2	187449	196403	198366	194073	3.00	cps
Selenium	82-1	2937	2847	2867	2884	1.64	cps
Selenium	77-2	40	33	40	38	10.19	cps
Selenium	78-2	160	213	153	176	18.73	cps
Silicon	28-1	796031	797352	793253	795545	0.26	cps
Silver	107-1	43866	44518	44505	44296	0.84	cps
Silver	109-1	41452	41907	42462	41940	1.21	cps
Sodium	23-2	543775	547067	547878	546240	0.40	cps
Strontium	86-1	11765	11878	11982	11875	0.91	cps
Strontium	88-1	98692	100098	100508	99766	0.95	cps
Sulfur	34-1	484217	483298	478939	482151	0.58	cps
Terbium	159-1	20142124	19879965	19756011	19926034	0.99	cps
Terbium	159-2	5641069	6044271	6108998	5931446	4.27	cps
Thallium	203-1	35756	36067	36548	36123	1.10	cps
Thallium	205-1	83966	85761	85030	84919	1.06	cps
Tin	118-1	141704	141640	142139	141828	0.19	cps
Titanium	47-1	28408	28345	29357	28703	1.97	cps
Uranium	238-1	113363	115703	114116	114394	1.04	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:32:13	DataFile Name :	041LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	28351	28094	28131	28192	0.49	cps
Ytterbium	172-1	77	93	87	86	9.80	cps
Ytterbium	172-2	60	33	27	40	44.09	cps
Ytterbium	176-1	2874	2697	2580	2717	5.44	cps
Ytterbium	176-2	347	390	447	394	12.71	cps
Yttrium	89-1	27613223	27608045	28184908	27802058	1.19	cps
Yttrium	89-2	1820895	1878619	1908899	1869471	2.39	cps
Zinc	66-2	5821	5671	5688	5727	1.44	cps
Zirconium	90-1	60969	61358	61113	61147	0.32	cps
Zirconium	91-1	13283	13680	13370	13444	1.55	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	107	67	86	23.48	cps
Antimony	121-1	103	70	70	81	23.73	cps
Arsenic	75-2	7	0	3	3	100.05	cps
Barium	135-1	243	207	320	257	22.53	cps
Barium	137-1	373	363	383	373	2.68	cps
Beryllium	9-1	267	306	270	281	7.71	cps
Bismuth	209-1	12353679	12329131	12133880	12272230	0.98	cps
Bismuth	209-2	4587727	4636000	4541129	4588285	1.03	cps
Bromine	81-1	7355	7392	7629	7459	1.99	cps
Cadmium	108-1	17	17	17	17	0.00	cps
Cadmium	106-1	8413	8236	8669	8439	2.58	cps
Cadmium	111-1	1691	1656	1732	1693	2.27	cps
Calcium	43-1	470	633	440	514	20.23	cps
Calcium	44-1	10274	10050	9800	10041	2.36	cps
Carbon	12-1	3343158	3305685	3283335	3310726	0.91	cps
Carbon	12-2	22618	23065	22587	22757	1.18	cps
Chlorine	35-1	209531	193863	178915	194103	7.89	cps
Chlorine	35-2	653	647	587	629	5.84	cps
Chromium	52-2	513	543	487	514	5.51	cps
Cobalt	59-2	57	50	70	59	17.29	cps
Copper	63-2	4187	4297	4224	4236	1.32	cps
Dysprosium	156-1	20	17	27	21	24.12	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	87	103	117	102	14.70	cps
Erbium	164-2	33	23	27	28	18.33	cps
Gadolinium	160-1	67	87	97	83	18.33	cps
Gadolinium	160-2	17	13	17	16	12.40	cps
Holmium	165-1	19442411	19314877	19050957	19269415	1.04	cps
Holmium	165-2	6259696	6336630	6198813	6265046	1.10	cps
Indium	115-1	15116875	14790838	14696750	14868154	1.48	cps
Indium	115-2	1461674	1472679	1461845	1465399	0.43	cps
Iron	54-2	317	237	347	300	18.95	cps
Iron	56-2	3217	3497	3234	3316	4.74	cps
Iron	57-2	97	103	60	87	26.93	cps
Krypton	83-1	180	183	190	184	2.76	cps
Lead	206-1	1547	1460	1533	1513	3.08	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1383	1290	1387	1353	4.05	cps
Lead	208-1	6271	6134	5904	6103	3.04	cps
Lithium	6-1	9056802	9108865	8940177	9035281	0.96	cps
Magnesium	24-2	627	510	570	569	10.26	cps
Manganese	55-2	40	107	50	66	54.84	cps
Molybdenum	94-1	403	407	403	404	0.48	cps
Molybdenum	95-1	127	120	167	138	18.32	cps
Molybdenum	96-1	233	220	180	211	13.15	cps
Molybdenum	97-1	97	83	70	83	16.00	cps
Molybdenum	98-1	260	207	220	229	12.13	cps
Neodymium	150-1	13	7	17	12	41.65	cps
Neodymium	150-2	7	3	0	3	100.05	cps
Nickel	60-2	1320	1273	1190	1261	5.22	cps
Phosphorus	31-2	50	33	53	46	23.52	cps
Potassium	39-2	8836	8633	8779	8749	1.20	cps
Rhodium	103-1	13918123	13826795	13742490	13829136	0.64	cps
Rhodium	103-2	5143987	5242125	5132855	5172989	1.16	cps
Scandium	45-1	10844537	10751276	10632514	10742776	0.99	cps
Scandium	45-2	199277	201488	199017	199928	0.68	cps
Selenium	82-1	-7	-10	47	10	317.88	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	3	10	6	69.34	cps
Silicon	28-1	432378	435937	435396	434570	0.44	cps
Silver	107-1	467	337	327	377	20.74	cps
Silver	109-1	293	260	227	260	12.82	cps
Sodium	23-2	21593	21920	21720	21744	0.76	cps
Strontium	86-1	307	387	377	357	12.22	cps
Strontium	88-1	337	303	347	329	6.90	cps
Sulfur	34-1	474642	471424	471102	472389	0.41	cps
Terbium	159-1	19490806	19872495	19267795	19543698	1.56	cps
Terbium	159-2	6104491	6186007	6090403	6126967	0.84	cps
Thallium	203-1	413	377	337	376	10.21	cps
Thallium	205-1	917	883	890	897	1.97	cps
Tin	118-1	1523	1320	1420	1421	7.15	cps
Titanium	47-1	180	120	167	156	20.25	cps
Uranium	238-1	63	40	37	47	31.13	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:35:34	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	10	10	10	0.00	cps
Ytterbium	172-1	120	123	100	114	11.03	cps
Ytterbium	172-2	20	33	37	30	29.40	cps
Ytterbium	176-1	2484	2570	2367	2474	4.13	cps
Ytterbium	176-2	330	277	313	307	8.90	cps
Yttrium	89-1	27141705	27279350	27223410	27214822	0.25	cps
Yttrium	89-2	1929036	1932808	1948259	1936701	0.53	cps
Zinc	66-2	320	383	323	342	10.41	cps
Zirconium	90-1	920	1060	1010	997	7.12	cps
Zirconium	91-1	210	213	170	198	12.19	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	729034	737667	731911	732871	0.60	cps
Antimony	121-1	8061880	8057899	8086101	8068626	0.19	cps
Arsenic	75-2	148647	148388	148500	148512	0.09	cps
Barium	135-1	10158574	10119243	10346591	10208136	1.19	cps
Barium	137-1	17474108	17600578	17703442	17592709	0.65	cps
Beryllium	9-1	3032923	3040268	3049237	3040810	0.27	cps
Bismuth	209-1	11429259	11412313	11782781	11541451	1.81	cps
Bismuth	209-2	4223382	4268481	4272956	4254940	0.64	cps
Bromine	81-1	7282	7249	7769	7433	3.92	cps
Cadmium	108-1	167052	166974	170003	168010	1.03	cps
Cadmium	106-1	244448	245207	246277	245310	0.37	cps
Cadmium	111-1	2033650	2009378	2012509	2018512	0.65	cps
Calcium	43-1	2916352	3000931	3001755	2973013	1.65	cps
Calcium	44-1	47297353	48050909	47776219	47708160	0.80	cps
Carbon	12-1	3959030	3954553	4021413	3978332	0.94	cps
Carbon	12-2	29991	30585	30178	30251	1.00	cps
Chlorine	35-1	147707	149614	148000	148440	0.69	cps
Chlorine	35-2	560	633	597	597	6.14	cps
Chromium	52-2	1839862	1820135	1822347	1827448	0.59	cps
Cobalt	59-2	3301988	3326072	3233073	3287044	1.47	cps
Copper	63-2	24240504	24310215	24407291	24319337	0.34	cps
Dysprosium	156-1	220	190	227	212	9.20	cps
Dysprosium	156-2	37	27	33	32	15.80	cps
Erbium	164-1	230	190	200	207	10.08	cps
Erbium	164-2	77	43	47	56	33.05	cps
Gadolinium	160-1	133	143	123	133	7.50	cps
Gadolinium	160-2	37	43	47	42	12.06	cps
Holmium	165-1	18923018	18782132	19398737	19034629	1.70	cps
Holmium	165-2	6169129	6121380	6298431	6196314	1.48	cps
Indium	115-1	14058244	13981270	14623221	14220912	2.46	cps
Indium	115-2	1369113	1374647	1400532	1381431	1.21	cps
Iron	54-2	3707912	3673064	3674966	3685314	0.53	cps
Iron	56-2	65628859	66383629	65436612	65816367	0.76	cps
Iron	57-2	1665300	1692822	1706321	1688148	1.24	cps
Krypton	83-1	230	217	197	214	7.82	cps
Lead	206-1	33640912	34308980	34046723	33998872	0.99	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28857614	29031609	29385765	29091663	0.93	cps
Lead	208-1	134183033	134556866	135452667	134730855	0.48	cps
Lithium	6-1	8305969	8377709	8424712	8369463	0.71	cps
Magnesium	24-2	12801150	12833929	12859686	12831588	0.23	cps
Manganese	55-2	7641133	7669144	7524981	7611753	1.00	cps
Molybdenum	94-1	28794393	28851284	28769965	28805214	0.14	cps
Molybdenum	95-1	42269295	41973041	41770490	42004275	0.60	cps
Molybdenum	96-1	46014614	46023679	46147131	46061808	0.16	cps
Molybdenum	97-1	25712351	25929411	26297438	25979734	1.14	cps
Molybdenum	98-1	67354799	68373667	68976834	68235100	1.20	cps
Neodymium	150-1	783	837	837	819	3.76	cps
Neodymium	150-2	47	20	20	29	53.30	cps
Nickel	60-2	872778	879585	878184	876849	0.41	cps
Phosphorus	31-2	32423	33068	32319	32603	1.24	cps
Potassium	39-2	3624751	3647877	3641854	3638161	0.33	cps
Rhodium	103-1	12755011	12677849	13299411	12910757	2.62	cps
Rhodium	103-2	4693482	4695057	4814041	4734194	1.46	cps
Scandium	45-1	10337126	10276538	10678113	10430592	2.08	cps
Scandium	45-2	192815	194413	196697	194642	1.00	cps
Selenium	82-1	130492	130684	131690	130956	0.49	cps
Selenium	77-2	2217	2074	2397	2229	7.27	cps
Selenium	78-2	7899	7449	7522	7623	3.17	cps
Silicon	28-1	19955516	19925961	19796891	19892789	0.42	cps
Silver	107-1	10814082	10667822	10877214	10786373	1.00	cps
Silver	109-1	10129959	10019013	10238339	10129104	1.08	cps
Sodium	23-2	25124889	25236006	25231529	25197475	0.25	cps
Strontium	86-1	2937754	3014548	3055935	3002746	2.00	cps
Strontium	88-1	25587638	25437116	25855725	25626827	0.83	cps
Sulfur	34-1	1200154	1213111	1214814	1209359	0.66	cps
Terbium	159-1	19261249	19188973	19842086	19430770	1.84	cps
Terbium	159-2	5977189	5998722	6143908	6039940	1.50	cps
Thallium	203-1	8683631	8699874	8718169	8700558	0.20	cps
Thallium	205-1	20479510	20736418	20575962	20597296	0.63	cps
Tin	118-1	6861604	6950393	6874258	6895419	0.70	cps
Titanium	47-1	13058201	13111376	13094903	13088160	0.21	cps
Uranium	238-1	28220811	27917064	28274776	28137550	0.69	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020-01	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020-01	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:38:57	DataFile Name :	043LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1393660	1384998	1371844	1383501	0.79	cps
Ytterbium	172-1	197	237	157	197	20.34	cps
Ytterbium	172-2	67	87	87	80	14.43	cps
Ytterbium	176-1	39770	41391	40402	40521	2.02	cps
Ytterbium	176-2	13123	13594	13741	13486	2.39	cps
Yttrium	89-1	26058718	26097649	27360597	26505655	2.79	cps
Yttrium	89-2	1831159	1837111	1929688	1865986	2.96	cps
Zinc	66-2	2536326	2571910	2570220	2559485	0.78	cps
Zirconium	90-1	14509919	14474959	14674124	14553001	0.73	cps
Zirconium	91-1	3304233	3295960	3246180	3282124	0.96	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110	133	103	116	13.63	cps
Antimony	121-1	1273	1290	1240	1268	2.01	cps
Arsenic	75-2	3	7	10	7	50.03	cps
Barium	135-1	497	530	450	492	8.16	cps
Barium	137-1	783	577	670	677	15.29	cps
Beryllium	9-1	615	562	614	597	5.02	cps
Bismuth	209-1	9857480	11707945	12215225	11260217	11.02	cps
Bismuth	209-2	4571820	4485740	4509729	4522430	0.98	cps
Bromine	81-1	7802	8086	7856	7915	1.90	cps
Cadmium	108-1	37	23	40	33	26.47	cps
Cadmium	106-1	6688	7846	8169	7568	10.29	cps
Cadmium	111-1	1465	1676	1676	1606	7.57	cps
Calcium	43-1	630	567	603	600	5.30	cps
Calcium	44-1	11815	11268	11265	11449	2.77	cps
Carbon	12-1	3311995	3237693	3214914	3254867	1.56	cps
Carbon	12-2	22604	22594	22020	22406	1.49	cps
Chlorine	35-1	114061	112442	111562	112688	1.12	cps
Chlorine	35-2	430	470	373	424	11.44	cps
Chromium	52-2	467	497	577	513	11.08	cps
Cobalt	59-2	167	163	203	178	12.48	cps
Copper	63-2	5194	5324	5181	5233	1.51	cps
Dysprosium	156-1	13	13	10	12	15.73	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	63	103	83	83	24.01	cps
Erbium	164-2	47	30	40	39	21.57	cps
Gadolinium	160-1	67	67	80	71	10.82	cps
Gadolinium	160-2	20	10	27	19	44.42	cps
Holmium	165-1	15541896	18797670	19203303	17847623	11.25	cps
Holmium	165-2	6150879	6200402	6105181	6152154	0.77	cps
Indium	115-1	11863034	14569664	14734276	13722325	11.75	cps
Indium	115-2	1449061	1443468	1441722	1444750	0.27	cps
Iron	54-2	380	403	413	399	4.29	cps
Iron	56-2	4974	4824	5114	4971	2.92	cps
Iron	57-2	123	123	137	128	6.02	cps
Krypton	83-1	183	230	237	217	13.41	cps
Lead	206-1	3544	3404	3230	3393	4.63	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3290	2884	2810	2995	8.64	cps
Lead	208-1	14960	13550	12976	13829	7.38	cps
Lithium	6-1	6995089	8451338	8689096	8045174	11.40	cps
Magnesium	24-2	797	713	757	756	5.52	cps
Manganese	55-2	390	343	347	360	7.23	cps
Molybdenum	94-1	1790	1497	1337	1541	14.92	cps
Molybdenum	95-1	2257	1907	1950	2038	9.36	cps
Molybdenum	96-1	2374	2040	2054	2156	8.76	cps
Molybdenum	97-1	1607	1120	1077	1268	23.21	cps
Molybdenum	98-1	3927	3007	2957	3297	16.57	cps
Neodymium	150-1	10	7	10	9	21.63	cps
Neodymium	150-2	3	13	0	6	124.93	cps
Nickel	60-2	1323	1273	1337	1311	2.55	cps
Phosphorus	31-2	43	57	70	57	23.53	cps
Potassium	39-2	9537	9453	9220	9403	1.75	cps
Rhodium	103-1	11104975	13522401	13983868	12870415	12.01	cps
Rhodium	103-2	5088415	5076969	5125066	5096817	0.49	cps
Scandium	45-1	8408743	10239570	10605610	9751308	12.07	cps
Scandium	45-2	196193	196348	192895	195145	1.00	cps
Selenium	82-1	97	-3	-13	27	228.08	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	3	3	3	0.00	cps
Silicon	28-1	463310	453050	446579	454313	1.86	cps
Silver	107-1	1580	1257	1110	1316	18.28	cps
Silver	109-1	1350	1160	983	1165	15.75	cps
Sodium	23-2	26080	25713	25576	25790	1.01	cps
Strontium	86-1	497	467	377	447	13.98	cps
Strontium	88-1	1123	803	863	930	18.29	cps
Sulfur	34-1	421355	430059	428410	426608	1.08	cps
Terbium	159-1	15607267	18996878	19425148	18009764	11.61	cps
Terbium	159-2	6064837	6172157	6061862	6099619	1.03	cps
Thallium	203-1	963	840	763	856	11.79	cps
Thallium	205-1	2100	1857	1964	1974	6.18	cps
Tin	118-1	1717	1640	1743	1700	3.16	cps
Titanium	47-1	583	543	463	530	11.53	cps
Uranium	238-1	990	670	780	813	19.99	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:41:40	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	30	27	28	6.92	cps
Ytterbium	172-1	100	120	133	118	14.25	cps
Ytterbium	172-2	37	30	43	37	18.18	cps
Ytterbium	176-1	2107	2410	2517	2345	9.07	cps
Ytterbium	176-2	317	327	303	316	3.71	cps
Yttrium	89-1	21856867	26500782	27281650	25213100	11.63	cps
Yttrium	89-2	1931690	1891408	1890636	1904578	1.23	cps
Zinc	66-2	483	470	437	463	5.19	cps
Zirconium	90-1	1367	1370	1203	1313	7.25	cps
Zirconium	91-1	280	273	213	256	14.37	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	732637	721755	728831	727741	0.76	cps
Antimony	121-1	8165249	8194464	8258757	8206157	0.58	cps
Arsenic	75-2	148877	147607	149443	148642	0.63	cps
Barium	135-1	10270169	10320938	10298673	10296593	0.25	cps
Barium	137-1	17766748	18255150	17528142	17850013	2.08	cps
Beryllium	9-1	3045675	3061038	3019811	3042175	0.68	cps
Bismuth	209-1	11331457	11391362	11608209	11443676	1.27	cps
Bismuth	209-2	4215596	4884324	4612149	4570690	7.36	cps
Bromine	81-1	8092	8006	7852	7983	1.52	cps
Cadmium	108-1	170318	169738	171654	170570	0.58	cps
Cadmium	106-1	243364	246495	247988	245949	0.96	cps
Cadmium	111-1	2017429	2064294	2037292	2039672	1.15	cps
Calcium	43-1	3006993	3002467	2981571	2997010	0.45	cps
Calcium	44-1	48453344	48652999	48072959	48393101	0.61	cps
Carbon	12-1	3967785	4044044	4060835	4024221	1.23	cps
Carbon	12-2	30515	30381	29864	30253	1.14	cps
Chlorine	35-1	127841	128783	127872	128165	0.42	cps
Chlorine	35-2	537	520	517	524	2.04	cps
Chromium	52-2	1824594	1749478	1766815	1780296	2.21	cps
Cobalt	59-2	3358745	3292622	3344176	3331848	1.04	cps
Copper	63-2	24262900	23897892	24107963	24089585	0.76	cps
Dysprosium	156-1	283	197	203	228	21.17	cps
Dysprosium	156-2	13	53	30	32	62.36	cps
Erbium	164-1	163	180	200	181	10.13	cps
Erbium	164-2	40	70	67	59	27.92	cps
Gadolinium	160-1	183	223	150	186	19.79	cps
Gadolinium	160-2	53	40	67	53	25.00	cps
Holmium	165-1	19015032	19120986	19129453	19088491	0.33	cps
Holmium	165-2	6155701	7194526	6686889	6679038	7.78	cps
Indium	115-1	14126045	14295282	14194446	14205257	0.60	cps
Indium	115-2	1354848	1599932	1520244	1491675	8.38	cps
Iron	54-2	3681685	3604713	3568137	3618178	1.60	cps
Iron	56-2	66576857	65899346	66028042	66168082	0.54	cps
Iron	57-2	1664294	1657488	1677118	1666300	0.60	cps
Krypton	83-1	167	210	227	201	15.40	cps
Lead	206-1	34094527	34729424	34460518	34428156	0.93	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29243670	29542915	29354428	29380338	0.51	cps
Lead	208-1	134925061	136035843	135992590	135651165	0.46	cps
Lithium	6-1	8257986	8239383	8330978	8276116	0.58	cps
Magnesium	24-2	12581908	12550149	12756634	12629563	0.88	cps
Manganese	55-2	7704249	7660518	7605254	7656674	0.65	cps
Molybdenum	94-1	29282486	29268300	29096677	29215821	0.35	cps
Molybdenum	95-1	41996321	42342550	42993888	42444253	1.19	cps
Molybdenum	96-1	46197653	45776101	47006256	46326670	1.35	cps
Molybdenum	97-1	25853516	25956846	26514207	26108190	1.36	cps
Molybdenum	98-1	68499206	69524457	69179612	69067758	0.76	cps
Neodymium	150-1	883	827	887	866	3.90	cps
Neodymium	150-2	33	40	50	41	20.41	cps
Nickel	60-2	875975	876285	872300	874853	0.25	cps
Phosphorus	31-2	33930	33084	33492	33502	1.26	cps
Potassium	39-2	3601293	3593210	3575559	3590021	0.37	cps
Rhodium	103-1	12648235	12593109	12938986	12726776	1.46	cps
Rhodium	103-2	4753849	5384213	5205842	5114635	6.35	cps
Scandium	45-1	10250321	10285464	10446625	10327470	1.01	cps
Scandium	45-2	192906	223842	211470	209406	7.44	cps
Selenium	82-1	132925	133423	134405	133584	0.56	cps
Selenium	77-2	2280	2127	2384	2264	5.71	cps
Selenium	78-2	7415	7445	7192	7351	1.88	cps
Silicon	28-1	23068830	23354585	23122782	23182066	0.65	cps
Silver	107-1	10661132	10769886	10855519	10762179	0.91	cps
Silver	109-1	10230564	10182856	10401545	10271655	1.12	cps
Sodium	23-2	25048808	24685952	24788622	24841127	0.75	cps
Strontium	86-1	3025758	3062395	3044509	3044221	0.60	cps
Strontium	88-1	25478667	25497675	25901900	25626081	0.93	cps
Sulfur	34-1	1229799	1232019	1252657	1238158	1.02	cps
Terbium	159-1	18788028	19371585	19720907	19293507	2.44	cps
Terbium	159-2	6032975	7040551	6607367	6560298	7.70	cps
Thallium	203-1	8634199	8840233	8882726	8785720	1.51	cps
Thallium	205-1	20682238	20710622	21009920	20800927	0.87	cps
Tin	118-1	7007646	6974050	7050185	7010627	0.54	cps
Titanium	47-1	13228234	13328216	13197369	13251273	0.52	cps
Uranium	238-1	28015079	28203070	28100594	28106248	0.33	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:45:03	DataFile Name :	045LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1385037	1363143	1378283	1375488	0.82	cps
Ytterbium	172-1	157	250	237	214	23.54	cps
Ytterbium	172-2	70	73	100	81	20.27	cps
Ytterbium	176-1	42124	42418	42070	42204	0.44	cps
Ytterbium	176-2	13430	12993	13630	13351	2.44	cps
Yttrium	89-1	26440108	26708293	26820772	26656391	0.73	cps
Yttrium	89-2	1890727	2173600	2064798	2043042	6.98	cps
Zinc	66-2	2600698	2558232	2607580	2588837	1.03	cps
Zirconium	90-1	14734444	14900949	14852062	14829151	0.58	cps
Zirconium	91-1	3324914	3294361	3316836	3312037	0.48	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	100	103	87	97	9.12	cps
Antimony	121-1	1490	1307	1303	1367	7.82	cps
Arsenic	75-2	10	0	7	6	91.64	cps
Barium	135-1	413	363	337	371	10.49	cps
Barium	137-1	590	590	643	608	5.07	cps
Beryllium	9-1	740	690	695	708	3.89	cps
Bismuth	209-1	12647513	12021870	12126669	12265351	2.73	cps
Bismuth	209-2	4474426	4426212	4349732	4416790	1.42	cps
Bromine	81-1	7649	7949	7859	7819	1.97	cps
Cadmium	108-1	23	30	30	28	13.86	cps
Cadmium	106-1	8669	8473	8366	8503	1.81	cps
Cadmium	111-1	1814	1764	1749	1776	1.93	cps
Calcium	43-1	650	620	630	633	2.41	cps
Calcium	44-1	11605	11495	11024	11375	2.71	cps
Carbon	12-1	3272895	3246646	3231515	3250352	0.64	cps
Carbon	12-2	22621	21759	22224	22201	1.94	cps
Chlorine	35-1	95727	94982	92251	94320	1.94	cps
Chlorine	35-2	353	350	313	339	6.55	cps
Chromium	52-2	540	493	550	528	5.73	cps
Cobalt	59-2	170	133	183	162	15.96	cps
Copper	63-2	5044	4818	4821	4894	2.66	cps
Dysprosium	156-1	17	13	13	14	13.35	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	77	77	83	79	4.87	cps
Erbium	164-2	27	40	27	31	24.74	cps
Gadolinium	160-1	90	100	110	100	10.00	cps
Gadolinium	160-2	13	17	23	18	28.64	cps
Holmium	165-1	19857926	18866616	19236105	19320216	2.59	cps
Holmium	165-2	6151083	6013211	5930605	6031633	1.85	cps
Indium	115-1	15234087	14551617	14821815	14869173	2.31	cps
Indium	115-2	1409217	1388081	1402248	1399849	0.77	cps
Iron	54-2	337	357	357	350	3.30	cps
Iron	56-2	4711	4654	4617	4661	1.01	cps
Iron	57-2	137	83	130	117	24.91	cps
Krypton	83-1	180	183	203	189	6.68	cps
Lead	206-1	3971	3781	3567	3773	5.35	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3167	3294	2924	3128	6.01	cps
Lead	208-1	15334	14820	14083	14746	4.26	cps
Lithium	6-1	8732864	8426622	8399443	8519643	2.17	cps
Magnesium	24-2	717	677	697	697	2.87	cps
Manganese	55-2	330	330	423	361	14.92	cps
Molybdenum	94-1	1510	1283	1430	1408	8.17	cps
Molybdenum	95-1	1677	1567	1817	1687	7.43	cps
Molybdenum	96-1	2024	1970	1927	1973	2.45	cps
Molybdenum	97-1	1047	1113	1023	1061	4.40	cps
Molybdenum	98-1	2787	2770	2724	2760	1.19	cps
Neodymium	150-1	27	20	17	21	24.12	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1307	1180	1177	1221	6.07	cps
Phosphorus	31-2	33	57	43	44	26.35	cps
Potassium	39-2	9573	9056	9343	9324	2.78	cps
Rhodium	103-1	14082407	13595863	13616040	13764770	2.00	cps
Rhodium	103-2	5078544	4911182	4905669	4965132	1.98	cps
Scandium	45-1	10893279	10389476	10537401	10606719	2.44	cps
Scandium	45-2	189593	185244	190423	188420	1.48	cps
Selenium	82-1	23	30	23	26	15.06	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	3	0	1	173.21	cps
Silicon	28-1	456193	447292	439810	447765	1.83	cps
Silver	107-1	1637	1307	1043	1329	22.37	cps
Silver	109-1	1280	1073	913	1089	16.88	cps
Sodium	23-2	26975	27085	26484	26848	1.19	cps
Strontium	86-1	347	387	370	368	5.46	cps
Strontium	88-1	717	790	800	769	5.92	cps
Sulfur	34-1	436240	437914	434604	436253	0.38	cps
Terbium	159-1	19921253	19180251	19571822	19557776	1.90	cps
Terbium	159-2	5949214	5919578	5988375	5952389	0.58	cps
Thallium	203-1	817	830	763	803	4.39	cps
Thallium	205-1	1990	1883	1780	1885	5.57	cps
Tin	118-1	1810	1860	1860	1843	1.57	cps
Titanium	47-1	473	527	467	489	6.73	cps
Uranium	238-1	637	787	637	687	12.61	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:47:45	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	37	33	37	9.10	cps
Ytterbium	172-1	103	93	93	97	5.97	cps
Ytterbium	172-2	33	37	43	38	13.48	cps
Ytterbium	176-1	2584	2330	2347	2420	5.86	cps
Ytterbium	176-2	270	377	333	327	16.42	cps
Yttrium	89-1	27653107	26794542	26991955	27146535	1.66	cps
Yttrium	89-2	1860217	1818877	1870916	1850003	1.49	cps
Zinc	66-2	450	477	573	500	12.98	cps
Zirconium	90-1	1253	1127	1233	1205	5.65	cps
Zirconium	91-1	243	300	323	289	14.24	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	710009	699666	713673	707782	1.03	cps
Antimony	121-1	7837548	7923840	7999684	7920357	1.02	cps
Arsenic	75-2	143384	143432	144546	143787	0.46	cps
Barium	135-1	9934703	10006178	10050098	9996993	0.58	cps
Barium	137-1	17072672	17574840	17802060	17483191	2.13	cps
Beryllium	9-1	2924757	2972725	2970172	2955885	0.91	cps
Bismuth	209-1	11375354	11368514	11441982	11395283	0.36	cps
Bismuth	209-2	4211003	4078444	4176094	4155180	1.65	cps
Bromine	81-1	7826	8146	7555	7842	3.77	cps
Cadmium	108-1	164121	168304	166766	166397	1.27	cps
Cadmium	106-1	236851	239647	240217	238905	0.75	cps
Cadmium	111-1	1980863	1999636	1970540	1983680	0.74	cps
Calcium	43-1	2891279	2858035	2911086	2886800	0.93	cps
Calcium	44-1	46894419	47252776	47382631	47176609	0.54	cps
Carbon	12-1	3832495	3876402	3923696	3877531	1.18	cps
Carbon	12-2	29196	29253	28955	29134	0.54	cps
Chlorine	35-1	102083	102513	102849	102481	0.37	cps
Chlorine	35-2	400	503	403	436	13.48	cps
Chromium	52-2	1768634	1753428	1764950	1762337	0.45	cps
Cobalt	59-2	3251161	3201176	3192322	3214887	0.99	cps
Copper	63-2	23462530	23582335	23602090	23548985	0.32	cps
Dysprosium	156-1	207	163	210	193	13.46	cps
Dysprosium	156-2	23	27	20	23	14.29	cps
Erbium	164-1	213	223	183	207	10.07	cps
Erbium	164-2	67	60	30	52	37.40	cps
Gadolinium	160-1	183	150	147	160	12.67	cps
Gadolinium	160-2	73	70	47	63	22.94	cps
Holmium	165-1	18749808	19014848	19420390	19061682	1.77	cps
Holmium	165-2	6045148	6005360	6085989	6045499	0.67	cps
Indium	115-1	13886359	14092808	14282261	14087143	1.41	cps
Indium	115-2	1343403	1346492	1357336	1349077	0.54	cps
Iron	54-2	3506411	3536870	3603683	3548988	1.40	cps
Iron	56-2	64970079	63485457	64425292	64293610	1.17	cps
Iron	57-2	1653198	1625379	1631010	1636529	0.90	cps
Krypton	83-1	227	243	260	243	6.85	cps
Lead	206-1	33433796	33284046	33772068	33496637	0.75	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28632597	28867416	29153376	28884463	0.90	cps
Lead	208-1	132593041	133575636	134076911	133415196	0.57	cps
Lithium	6-1	8182239	8165211	8193507	8180319	0.17	cps
Magnesium	24-2	12361098	12540871	12390996	12430989	0.77	cps
Manganese	55-2	7468547	7331572	7366645	7388921	0.96	cps
Molybdenum	94-1	28522485	28523225	28659488	28568400	0.28	cps
Molybdenum	95-1	41045106	41410396	41372388	41275963	0.49	cps
Molybdenum	96-1	44592839	45277336	45296399	45055525	0.89	cps
Molybdenum	97-1	25352629	25270718	25799801	25474383	1.12	cps
Molybdenum	98-1	67044356	66861997	67849146	67251833	0.78	cps
Neodymium	150-1	833	1007	770	870	14.08	cps
Neodymium	150-2	33	33	33	33	0.00	cps
Nickel	60-2	854020	850970	852207	852399	0.18	cps
Phosphorus	31-2	32540	31605	31538	31894	1.76	cps
Potassium	39-2	3539393	3475432	3544724	3519850	1.10	cps
Rhodium	103-1	12597748	12643543	12865803	12702365	1.13	cps
Rhodium	103-2	4620670	4664970	4646505	4644048	0.48	cps
Scandium	45-1	10203937	10440562	10168709	10271069	1.44	cps
Scandium	45-2	190731	191183	192062	191325	0.35	cps
Selenium	82-1	129190	128248	130072	129170	0.71	cps
Selenium	77-2	2184	2144	2297	2208	3.60	cps
Selenium	78-2	7012	7272	7345	7210	2.43	cps
Silicon	28-1	21784080	21861831	21804702	21816871	0.18	cps
Silver	107-1	10487492	10814430	10532199	10611374	1.67	cps
Silver	109-1	9921231	10195985	10024330	10047182	1.38	cps
Sodium	23-2	24458426	24478296	24258508	24398410	0.50	cps
Strontium	86-1	2903260	2906432	2990617	2933436	1.69	cps
Strontium	88-1	24694600	25354395	25255437	25101477	1.42	cps
Sulfur	34-1	1183984	1201377	1193480	1192947	0.73	cps
Terbium	159-1	19248466	19103660	19399473	19250533	0.77	cps
Terbium	159-2	5889231	5957882	5932553	5926555	0.59	cps
Thallium	203-1	8530332	8455433	8682204	8555990	1.35	cps
Thallium	205-1	20262404	20284854	20593879	20380379	0.91	cps
Tin	118-1	6736718	6753436	6864089	6784748	1.02	cps
Titanium	47-1	12886494	12927159	12950905	12921520	0.25	cps
Uranium	238-1	27818272	28319890	27887965	28008709	0.97	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:51:09	DataFile Name :	047LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1333000	1346503	1334985	1338162	0.54	cps
Ytterbium	172-1	187	193	180	187	3.57	cps
Ytterbium	172-2	77	67	63	69	10.08	cps
Ytterbium	176-1	40649	40873	41144	40889	0.61	cps
Ytterbium	176-2	13233	12870	13003	13035	1.41	cps
Yttrium	89-1	26338483	26697339	26490057	26508626	0.68	cps
Yttrium	89-2	1826883	1797272	1833830	1819328	1.07	cps
Zinc	66-2	2522803	2496637	2491014	2503485	0.68	cps
Zirconium	90-1	14359384	14356200	14384551	14366711	0.11	cps
Zirconium	91-1	3210424	3291000	3195737	3232387	1.59	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3534153	3567349	3538417	3546640	0.51	cps
Antimony	121-1	7207627	7225504	7180438	7204523	0.31	cps
Arsenic	75-2	132004	132825	132907	132579	0.38	cps
Barium	135-1	9327000	9362011	9442557	9377189	0.63	cps
Barium	137-1	16271504	16315556	16257508	16281523	0.19	cps
Beryllium	9-1	2782013	2717150	2730308	2743157	1.25	cps
Bismuth	209-1	10136167	10263813	10177934	10192638	0.64	cps
Bismuth	209-2	3724526	3783167	3821999	3776564	1.30	cps
Bromine	81-1	7936	7799	7892	7876	0.89	cps
Cadmium	108-1	148806	148887	147883	148525	0.38	cps
Cadmium	106-1	214798	216129	216548	215825	0.42	cps
Cadmium	111-1	1738908	1759610	1762185	1753568	0.73	cps
Calcium	43-1	13604313	13529038	13498992	13544115	0.40	cps
Calcium	44-1	220026510	223431197	221203877	221553861	0.78	cps
Carbon	12-1	3925505	3973062	4047595	3982054	1.55	cps
Carbon	12-2	33916	33475	33685	33692	0.65	cps
Chlorine	35-1	103081	104839	104329	104083	0.87	cps
Chlorine	35-2	403	450	417	423	5.68	cps
Chromium	52-2	1660101	1624563	1642506	1642390	1.08	cps
Cobalt	59-2	2905349	2910271	2924659	2913426	0.34	cps
Copper	63-2	20810636	20994104	20958693	20921144	0.47	cps
Dysprosium	156-1	433	487	453	458	5.89	cps
Dysprosium	156-2	113	110	73	99	22.45	cps
Erbium	164-1	453	457	470	460	1.92	cps
Erbium	164-2	200	147	147	164	18.72	cps
Gadolinium	160-1	410	390	337	379	10.01	cps
Gadolinium	160-2	140	143	113	132	12.43	cps
Holmium	165-1	18245916	17922801	18243326	18137348	1.02	cps
Holmium	165-2	5715892	5782223	5781724	5759946	0.66	cps
Indium	115-1	13076991	12957853	12890190	12975011	0.73	cps
Indium	115-2	1265484	1265766	1265993	1265747	0.02	cps
Iron	54-2	16302746	16377609	16489129	16389828	0.57	cps
Iron	56-2	298827842	301581689	300397029	300268853	0.46	cps
Iron	57-2	7601385	7505072	7585196	7563884	0.68	cps
Krypton	83-1	277	340	250	289	16.00	cps
Lead	206-1	30611938	30885999	30722205	30740047	0.45	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26093690	26467590	26409526	26323602	0.76	cps
Lead	208-1	121463067	122118547	121850572	121810728	0.27	cps
Lithium	6-1	7622338	7575648	7565705	7587897	0.40	cps
Magnesium	24-2	58384461	58812732	58635572	58610922	0.37	cps
Manganese	55-2	6768394	6987933	7008029	6921452	1.92	cps
Molybdenum	94-1	26937969	26855800	27019090	26937620	0.30	cps
Molybdenum	95-1	38641480	38797620	39344544	38927882	0.95	cps
Molybdenum	96-1	42408050	42573841	42703859	42561917	0.35	cps
Molybdenum	97-1	23971389	24159799	24165633	24098940	0.46	cps
Molybdenum	98-1	63405377	63548886	63622981	63525748	0.17	cps
Neodymium	150-1	930	920	977	942	3.21	cps
Neodymium	150-2	60	80	83	74	16.95	cps
Nickel	60-2	753219	758473	761448	757713	0.55	cps
Phosphorus	31-2	29827	30312	29680	29940	1.10	cps
Potassium	39-2	16888626	16867402	16825415	16860481	0.19	cps
Rhodium	103-1	11374628	11470265	11298803	11381232	0.75	cps
Rhodium	103-2	4203946	4180982	4185043	4189991	0.29	cps
Scandium	45-1	9736960	9749058	9614493	9700170	0.77	cps
Scandium	45-2	184265	180913	182320	182499	0.92	cps
Selenium	82-1	115423	115520	115627	115523	0.09	cps
Selenium	77-2	2064	1950	1923	1979	3.76	cps
Selenium	78-2	6578	6398	6665	6547	2.08	cps
Silicon	28-1	29227990	28998401	29049816	29092069	0.41	cps
Silver	107-1	9200797	9210063	9300192	9237017	0.59	cps
Silver	109-1	8621482	8778242	8793956	8731227	1.09	cps
Sodium	23-2	117256532	116346325	116072682	116558513	0.53	cps
Strontium	86-1	2792354	2782871	2758955	2778060	0.62	cps
Strontium	88-1	23562476	23721594	23696545	23660205	0.36	cps
Sulfur	34-1	1119252	1125554	1119032	1121279	0.33	cps
Terbium	159-1	18445959	18401371	18542152	18463161	0.39	cps
Terbium	159-2	5663697	5638897	5693752	5665449	0.48	cps
Thallium	203-1	7839833	8018327	7869993	7909384	1.21	cps
Thallium	205-1	18736636	18846278	18445859	18676258	1.11	cps
Tin	118-1	6125063	6339378	6236959	6233800	1.72	cps
Titanium	47-1	12264159	12131441	12076383	12157327	0.79	cps
Uranium	238-1	26430468	26696795	26684430	26603898	0.57	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:53:51	DataFile Name :	048CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1249766	1252049	1254030	1251948	0.17	cps
Ytterbium	172-1	547	497	510	518	5.00	cps
Ytterbium	172-2	143	160	207	170	19.31	cps
Ytterbium	176-1	39335	40552	39880	39922	1.53	cps
Ytterbium	176-2	12676	12446	12706	12609	1.13	cps
Yttrium	89-1	25125334	25119380	24938940	25061218	0.42	cps
Yttrium	89-2	1771243	1783411	1770968	1775207	0.40	cps
Zinc	66-2	2206567	2210706	2208067	2208447	0.09	cps
Zirconium	90-1	13785496	13760554	13934569	13826873	0.68	cps
Zirconium	91-1	3072957	3092007	3152758	3105907	1.34	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177	147	123	149	17.96	cps
Antimony	121-1	2770	2104	1903	2259	20.09	cps
Arsenic	75-2	7	0	10	6	91.64	cps
Barium	135-1	1273	960	580	938	37.02	cps
Barium	137-1	2150	1570	893	1538	40.90	cps
Beryllium	9-1	1216	1031	995	1081	10.98	cps
Bismuth	209-1	12179361	11910681	11850855	11980299	1.46	cps
Bismuth	209-2	4442375	4396546	4462362	4433761	0.76	cps
Bromine	81-1	7869	7589	7726	7728	1.81	cps
Cadmium	108-1	53	37	23	38	39.79	cps
Cadmium	106-1	8376	8369	8062	8269	2.17	cps
Cadmium	111-1	1938	1835	1740	1837	5.40	cps
Calcium	43-1	1683	1343	987	1338	26.04	cps
Calcium	44-1	29758	22521	16813	23031	28.17	cps
Carbon	12-1	3395101	3352904	3334725	3360910	0.92	cps
Carbon	12-2	23142	22975	23228	23115	0.56	cps
Chlorine	35-1	82992	82047	81424	82154	0.96	cps
Chlorine	35-2	253	383	290	309	21.70	cps
Chromium	52-2	630	590	563	594	5.64	cps
Cobalt	59-2	150	140	170	153	9.96	cps
Copper	63-2	4944	4687	4684	4772	3.13	cps
Dysprosium	156-1	7	23	13	14	58.06	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	90	80	97	89	9.44	cps
Erbium	164-2	43	47	40	43	7.70	cps
Gadolinium	160-1	83	70	80	78	8.92	cps
Gadolinium	160-2	17	13	3	11	62.48	cps
Holmium	165-1	19267548	18831794	18838130	18979157	1.32	cps
Holmium	165-2	6081463	6032587	6138781	6084277	0.87	cps
Indium	115-1	15296813	14681646	14689978	14889479	2.37	cps
Indium	115-2	1402850	1412619	1422795	1412754	0.71	cps
Iron	54-2	627	507	590	574	10.71	cps
Iron	56-2	9757	8623	7916	8765	10.60	cps
Iron	57-2	263	230	167	220	22.32	cps
Krypton	83-1	123	207	160	163	25.57	cps
Lead	206-1	7943	6482	5244	6556	20.60	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6939	5468	4498	5635	21.81	cps
Lead	208-1	31916	25220	20683	25940	21.78	cps
Lithium	6-1	8550759	8363019	8287095	8400291	1.62	cps
Magnesium	24-2	1553	1230	1137	1307	16.73	cps
Manganese	55-2	323	273	277	291	9.60	cps
Molybdenum	94-1	4514	3074	2377	3322	32.81	cps
Molybdenum	95-1	5501	4011	2904	4138	31.50	cps
Molybdenum	96-1	6165	4497	3134	4599	33.01	cps
Molybdenum	97-1	3474	2487	1713	2558	34.49	cps
Molybdenum	98-1	8706	6218	4541	6488	32.30	cps
Neodymium	150-1	13	17	10	13	25.01	cps
Neodymium	150-2	7	0	10	6	91.64	cps
Nickel	60-2	1213	1233	1283	1243	2.90	cps
Phosphorus	31-2	77	53	37	56	36.17	cps
Potassium	39-2	9994	10044	9733	9923	1.68	cps
Rhodium	103-1	13764335	13578745	13420421	13587834	1.27	cps
Rhodium	103-2	4960820	4986952	5081712	5009828	1.27	cps
Scandium	45-1	10637862	10393433	10265956	10432417	1.81	cps
Scandium	45-2	186344	188647	189509	188167	0.87	cps
Selenium	82-1	137	40	53	77	68.33	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	13	0	6	124.93	cps
Silicon	28-1	452535	442212	438840	444529	1.61	cps
Silver	107-1	2604	1843	1377	1941	31.90	cps
Silver	109-1	2320	1773	1303	1799	28.29	cps
Sodium	23-2	35694	34918	34350	34987	1.93	cps
Strontium	86-1	573	590	430	531	16.56	cps
Strontium	88-1	2980	1937	1323	2080	40.27	cps
Sulfur	34-1	411226	405160	406487	407624	0.78	cps
Terbium	159-1	19830155	19242754	19154013	19408974	1.89	cps
Terbium	159-2	5908483	5948447	5937006	5931312	0.35	cps
Thallium	203-1	1587	1270	1067	1308	20.04	cps
Thallium	205-1	4074	3160	2544	3259	23.62	cps
Tin	118-1	2444	2067	1860	2124	13.93	cps
Titanium	47-1	1550	1140	737	1142	35.60	cps
Uranium	238-1	3240	2064	1350	2218	43.04	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 15:56:40	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	30	23	23	28.56	cps
Ytterbium	172-1	113	87	97	99	13.62	cps
Ytterbium	172-2	37	43	50	43	15.38	cps
Ytterbium	176-1	2470	2504	2350	2441	3.30	cps
Ytterbium	176-2	267	350	380	332	17.68	cps
Yttrium	89-1	27380925	26738835	26478313	26866024	1.73	cps
Yttrium	89-2	1831509	1872465	1852601	1852192	1.11	cps
Zinc	66-2	420	453	403	426	5.98	cps
Zirconium	90-1	3721	2997	2120	2946	27.20	cps
Zirconium	91-1	797	587	427	603	30.76	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	57	100	82	27.59	cps
Antimony	121-1	167	147	137	150	10.18	cps
Arsenic	75-2	7	0	0	2	173.21	cps
Barium	135-1	440	400	403	414	5.36	cps
Barium	137-1	777	657	697	710	8.61	cps
Beryllium	9-1	329	291	307	309	6.08	cps
Bismuth	209-1	11627773	11655155	11692563	11658497	0.28	cps
Bismuth	209-2	4229177	4293495	4319632	4280768	1.09	cps
Bromine	81-1	6735	6698	6722	6718	0.28	cps
Cadmium	108-1	30	13	27	23	37.81	cps
Cadmium	106-1	8243	8199	8166	8203	0.47	cps
Cadmium	111-1	1638	1637	1618	1631	0.69	cps
Calcium	43-1	490	517	553	520	6.12	cps
Calcium	44-1	9823	9934	9860	9872	0.57	cps
Carbon	12-1	3156445	3128347	3097572	3127455	0.94	cps
Carbon	12-2	22461	22123	22664	22416	1.22	cps
Chlorine	35-1	63187	64195	63077	63486	0.97	cps
Chlorine	35-2	187	250	223	220	14.45	cps
Chromium	52-2	520	533	497	517	3.59	cps
Cobalt	59-2	73	83	127	94	30.02	cps
Copper	63-2	3504	3580	3440	3508	2.00	cps
Dysprosium	156-1	20	23	10	18	39.03	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	90	100	137	109	22.57	cps
Erbium	164-2	63	30	23	39	55.11	cps
Gadolinium	160-1	83	80	80	81	2.37	cps
Gadolinium	160-2	30	20	13	21	39.75	cps
Holmium	165-1	18203674	18176272	18156400	18178782	0.13	cps
Holmium	165-2	5657983	5777605	5787432	5741007	1.26	cps
Indium	115-1	13967755	13980030	14073968	14007251	0.41	cps
Indium	115-2	1328763	1346556	1346289	1340536	0.76	cps
Iron	54-2	277	287	293	286	2.94	cps
Iron	56-2	3130	2960	3170	3087	3.61	cps
Iron	57-2	67	93	57	72	26.24	cps
Krypton	83-1	207	197	180	194	6.93	cps
Lead	206-1	1567	1573	1533	1558	1.38	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1263	1190	1253	1236	3.22	cps
Lead	208-1	5994	5874	5964	5944	1.05	cps
Lithium	6-1	8337666	8351261	8296631	8328519	0.34	cps
Magnesium	24-2	490	420	457	456	7.69	cps
Manganese	55-2	113	133	107	118	11.79	cps
Molybdenum	94-1	380	410	343	378	8.84	cps
Molybdenum	95-1	183	210	190	194	7.14	cps
Molybdenum	96-1	237	267	250	251	5.99	cps
Molybdenum	97-1	127	120	107	118	8.65	cps
Molybdenum	98-1	287	247	300	278	9.99	cps
Neodymium	150-1	40	20	27	29	35.25	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1150	1187	1120	1152	2.90	cps
Phosphorus	31-2	40	63	53	52	22.41	cps
Potassium	39-2	8289	8092	7902	8095	2.39	cps
Rhodium	103-1	12959285	13008051	12792151	12919829	0.88	cps
Rhodium	103-2	4641586	4804117	4788662	4744789	1.89	cps
Scandium	45-1	9771232	9916744	10002370	9896782	1.18	cps
Scandium	45-2	181034	180954	182462	181483	0.47	cps
Selenium	82-1	-20	-20	10	-10	-173.21	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	0	7	4	86.60	cps
Silicon	28-1	400621	403045	400696	401454	0.34	cps
Silver	107-1	257	207	210	224	12.46	cps
Silver	109-1	80	67	123	90	32.92	cps
Sodium	23-2	21022	21306	21239	21189	0.70	cps
Strontium	86-1	290	300	277	289	4.05	cps
Strontium	88-1	337	380	270	329	16.85	cps
Sulfur	34-1	463563	468015	466736	466105	0.49	cps
Terbium	159-1	18654918	18714845	18850440	18740068	0.53	cps
Terbium	159-2	5754867	5715340	5751637	5740615	0.38	cps
Thallium	203-1	320	247	240	269	16.51	cps
Thallium	205-1	693	627	567	629	10.08	cps
Tin	118-1	1383	1290	1353	1342	3.55	cps
Titanium	47-1	187	180	183	183	1.82	cps
Uranium	238-1	73	30	40	48	47.49	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BL	Instrumnet Name :	P8
Client Sample ID :	PBW066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:47:36	DataFile Name :	050CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	7	10	7	50.03	cps
Ytterbium	172-1	93	73	117	94	22.97	cps
Ytterbium	172-2	33	37	60	43	33.53	cps
Ytterbium	176-1	2340	2230	2264	2278	2.48	cps
Ytterbium	176-2	407	437	427	423	3.61	cps
Yttrium	89-1	25361381	25281891	25348963	25330745	0.17	cps
Yttrium	89-2	1780577	1758169	1731189	1756645	1.41	cps
Zinc	66-2	383	373	357	371	3.63	cps
Zirconium	90-1	937	897	820	884	6.70	cps
Zirconium	91-1	197	240	127	188	30.45	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	709099	709251	707797	708716	0.11	cps
Antimony	121-1	7564578	7739776	7848139	7717498	1.85	cps
Arsenic	75-2	142397	143933	143488	143273	0.55	cps
Barium	135-1	9603988	9783436	9877050	9754825	1.42	cps
Barium	137-1	16577094	16964976	17274686	16938919	2.06	cps
Beryllium	9-1	2907526	2903604	2925117	2912082	0.39	cps
Bismuth	209-1	12340213	11612567	11200664	11717815	4.92	cps
Bismuth	209-2	4154116	4190602	4243251	4195989	1.07	cps
Bromine	81-1	6822	7329	7279	7143	3.91	cps
Cadmium	108-1	161997	165113	166390	164500	1.37	cps
Cadmium	106-1	233933	239550	239686	237723	1.38	cps
Cadmium	111-1	1900201	1968663	1937736	1935533	1.77	cps
Calcium	43-1	2811744	2847265	2837571	2832193	0.65	cps
Calcium	44-1	45103519	45952618	46374938	45810358	1.41	cps
Carbon	12-1	3686551	3770872	3819214	3758879	1.79	cps
Carbon	12-2	28324	28995	29106	28808	1.47	cps
Chlorine	35-1	86540	89716	89437	88564	1.99	cps
Chlorine	35-2	363	347	417	376	9.74	cps
Chromium	52-2	1745040	1688258	1721926	1718408	1.66	cps
Cobalt	59-2	3166620	3171592	3173558	3170590	0.11	cps
Copper	63-2	23039139	23412488	23291728	23247785	0.82	cps
Dysprosium	156-1	197	203	217	206	4.95	cps
Dysprosium	156-2	40	17	33	30	40.05	cps
Erbium	164-1	207	277	140	208	32.89	cps
Erbium	164-2	43	43	43	43	0.00	cps
Gadolinium	160-1	163	133	147	148	10.17	cps
Gadolinium	160-2	37	33	47	39	17.85	cps
Holmium	165-1	20436916	19150060	18507045	19364674	5.07	cps
Holmium	165-2	6022520	6013211	6106548	6047426	0.85	cps
Indium	115-1	15223899	14380943	13756968	14453936	5.09	cps
Indium	115-2	1327314	1343327	1353271	1341304	0.98	cps
Iron	54-2	3461246	3488377	3458757	3469460	0.47	cps
Iron	56-2	64012139	63134241	63517792	63554724	0.69	cps
Iron	57-2	1625740	1611226	1611212	1616059	0.52	cps
Krypton	83-1	180	207	197	194	6.93	cps
Lead	206-1	32727562	33284736	33623659	33211986	1.36	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28042064	28476965	28748100	28422376	1.25	cps
Lead	208-1	129612910	131654275	132931816	131399667	1.27	cps
Lithium	6-1	8753888	8451432	8182364	8462561	3.38	cps
Magnesium	24-2	12241071	12328294	12333239	12300868	0.42	cps
Manganese	55-2	7278236	7191563	7267334	7245711	0.65	cps
Molybdenum	94-1	27157115	27785028	27997575	27646573	1.58	cps
Molybdenum	95-1	39758219	40183460	40555252	40165644	0.99	cps
Molybdenum	96-1	43318576	44667848	44547229	44177884	1.69	cps
Molybdenum	97-1	24680122	25220241	25152649	25017671	1.18	cps
Molybdenum	98-1	64690474	66173532	66443801	65769269	1.44	cps
Neodymium	150-1	863	860	840	854	1.48	cps
Neodymium	150-2	47	37	27	37	27.27	cps
Nickel	60-2	849394	849447	850102	849647	0.05	cps
Phosphorus	31-2	31695	32009	31451	31718	0.88	cps
Potassium	39-2	3437205	3461671	3510100	3469659	1.07	cps
Rhodium	103-1	13547496	12934764	12494899	12992386	4.07	cps
Rhodium	103-2	4550222	4599720	4677450	4609130	1.39	cps
Scandium	45-1	11036869	10271570	9907299	10405246	5.54	cps
Scandium	45-2	187128	187351	189144	187874	0.59	cps
Selenium	82-1	125675	125988	129039	126900	1.46	cps
Selenium	77-2	2084	2160	2180	2141	2.38	cps
Selenium	78-2	7455	7345	7105	7302	2.45	cps
Silicon	28-1	21761354	22009291	22129930	21966858	0.86	cps
Silver	107-1	10083147	10331562	10423427	10279379	1.71	cps
Silver	109-1	9745716	9942645	9739653	9809338	1.18	cps
Sodium	23-2	24197937	24055704	24054629	24102757	0.34	cps
Strontium	86-1	2806653	2886652	2941574	2878293	2.36	cps
Strontium	88-1	24067195	24756394	24717862	24513817	1.58	cps
Sulfur	34-1	1184045	1188075	1159434	1177185	1.32	cps
Terbium	159-1	20856725	19479111	18799959	19711932	5.32	cps
Terbium	159-2	5901914	5885636	5839668	5875739	0.55	cps
Thallium	203-1	8454944	8603649	8625736	8561443	1.08	cps
Thallium	205-1	19797826	19949644	20338566	20028679	1.39	cps
Tin	118-1	6541304	6734695	6647272	6641091	1.46	cps
Titanium	47-1	12322721	12536588	12808136	12555815	1.94	cps
Uranium	238-1	27238054	27448517	27648837	27445136	0.75	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166066BS	Instrumnet Name :	P8
Client Sample ID :	LCS066	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 16:50:58	DataFile Name :	051LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1303402	1304165	1305266	1304278	0.07	cps
Ytterbium	172-1	237	217	277	243	12.55	cps
Ytterbium	172-2	70	103	63	79	27.17	cps
Ytterbium	176-1	40087	39643	40157	39962	0.70	cps
Ytterbium	176-2	12766	13227	12840	12944	1.91	cps
Yttrium	89-1	28213985	26474859	25747623	26812155	4.73	cps
Yttrium	89-2	1808685	1806565	1812259	1809170	0.16	cps
Zinc	66-2	2489565	2499328	2489944	2492946	0.22	cps
Zirconium	90-1	13774947	13978341	13992300	13915196	0.87	cps
Zirconium	91-1	3122673	3136730	3168722	3142708	0.75	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	81577	84775	84034	83462	2.01	cps
Antimony	121-1	38524	39183	39413	39040	1.18	cps
Arsenic	75-2	1560	1593	1593	1582	1.22	cps
Barium	135-1	265617	264427	264184	264743	0.29	cps
Barium	137-1	466590	467266	464334	466063	0.33	cps
Beryllium	9-1	1704	1672	1636	1671	2.02	cps
Bismuth	209-1	10583504	10153210	10304622	10347112	2.11	cps
Bismuth	209-2	3795171	3751688	3727423	3758094	0.91	cps
Bromine	81-1	27190	29895	31155	29413	6.89	cps
Cadmium	108-1	1507	1663	1553	1575	5.11	cps
Cadmium	106-1	10311	10007	10501	10273	2.42	cps
Cadmium	111-1	14054	14204	14379	14212	1.15	cps
Calcium	43-1	726977	725987	732610	728525	0.49	cps
Calcium	44-1	12035894	11943216	12242560	12073890	1.27	cps
Carbon	12-1	389555821	421882060	435892900	415776927	5.72	cps
Carbon	12-2	2840412	2811765	2829714	2827297	0.51	cps
Chlorine	35-1	44723808	48409884	50489796	47874496	6.10	cps
Chlorine	35-2	208797	212754	211674	211075	0.97	cps
Chromium	52-2	34542	35367	34752	34887	1.23	cps
Cobalt	59-2	19216	19427	20094	19579	2.34	cps
Copper	63-2	619294	622057	622470	621274	0.28	cps
Dysprosium	156-1	9644	9727	9654	9675	0.47	cps
Dysprosium	156-2	3110	3054	3047	3070	1.13	cps
Erbium	164-1	8993	9237	9307	9179	1.79	cps
Erbium	164-2	2990	2964	2750	2901	4.53	cps
Gadolinium	160-1	9687	9457	9560	9568	1.20	cps
Gadolinium	160-2	3691	3744	3654	3696	1.22	cps
Holmium	165-1	18269112	17640882	17580898	17830298	2.14	cps
Holmium	165-2	5644369	5512815	5563649	5573611	1.19	cps
Indium	115-1	13409614	13025311	12853632	13096186	2.17	cps
Indium	115-2	1249263	1252649	1244990	1248967	0.31	cps
Iron	54-2	596544	603236	597098	598959	0.62	cps
Iron	56-2	11089137	11008615	11075132	11057628	0.39	cps
Iron	57-2	273386	277105	278012	276168	0.89	cps
Krypton	83-1	190	197	250	212	15.50	cps
Lead	206-1	1011840	1016934	1026771	1018515	0.75	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	855061	851390	861697	856049	0.61	cps
Lead	208-1	4023671	4062987	4075501	4054053	0.67	cps
Lithium	6-1	7726505	7316888	7350108	7464500	3.05	cps
Magnesium	24-2	607191	612923	605683	608599	0.63	cps
Manganese	55-2	145449	145526	144852	145276	0.25	cps
Molybdenum	94-1	220944	223924	225978	223615	1.13	cps
Molybdenum	95-1	237679	239111	243476	240089	1.26	cps
Molybdenum	96-1	269766	269225	270718	269903	0.28	cps
Molybdenum	97-1	148760	147824	151176	149253	1.16	cps
Molybdenum	98-1	385049	390887	388399	388112	0.75	cps
Neodymium	150-1	12796	12539	13030	12788	1.92	cps
Neodymium	150-2	3150	3037	3060	3083	1.94	cps
Nickel	60-2	15522	15422	15562	15502	0.47	cps
Phosphorus	31-2	2464	2290	2430	2395	3.84	cps
Potassium	39-2	637185	649643	640414	642414	1.01	cps
Rhodium	103-1	11690666	11572158	11389105	11550643	1.32	cps
Rhodium	103-2	4240772	4198205	4124816	4187931	1.40	cps
Scandium	45-1	9965206	9570704	9557007	9697639	2.39	cps
Scandium	45-2	169945	172082	168505	170177	1.06	cps
Selenium	82-1	200	173	130	168	21.06	cps
Selenium	77-2	10	27	3	13	90.16	cps
Selenium	78-2	40	20	7	22	75.49	cps
Silicon	28-1	197760390	196227070	200634204	198207221	1.13	cps
Silver	107-1	13240	12222	11932	12465	5.51	cps
Silver	109-1	12569	11542	11158	11756	6.21	cps
Sodium	23-2	212961870	214396110	212317710	213225230	0.50	cps
Strontium	86-1	369140	370449	372398	370663	0.44	cps
Strontium	88-1	3305153	3215307	3290552	3270338	1.47	cps
Sulfur	34-1	1183940	1203735	1216123	1201266	1.35	cps
Terbium	159-1	18439685	18178868	17810035	18142863	1.74	cps
Terbium	159-2	5444568	5539132	5504132	5495944	0.87	cps
Thallium	203-1	2387	3034	2827	2749	12.02	cps
Thallium	205-1	6025	7142	7295	6821	10.17	cps
Tin	118-1	60601	61138	61109	60949	0.50	cps
Titanium	47-1	172089	174466	174712	173756	0.83	cps
Uranium	238-1	15797	15379	15299	15492	1.72	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX5	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:53:45	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	26191	26675	26197	26354	1.05	cps
Ytterbium	172-1	3294	3531	3384	3403	3.51	cps
Ytterbium	172-2	1207	1243	1283	1245	3.08	cps
Ytterbium	176-1	5111	5181	5214	5169	1.02	cps
Ytterbium	176-2	1267	1347	1360	1325	3.81	cps
Yttrium	89-1	25459965	24576184	24614143	24883430	2.01	cps
Yttrium	89-2	1689759	1668356	1665834	1674649	0.78	cps
Zinc	66-2	447718	445584	446368	446557	0.24	cps
Zirconium	90-1	241743	243099	246542	243795	1.01	cps
Zirconium	91-1	53425	54928	54503	54285	1.43	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	37351	39113	37933	38132	2.35	cps
Antimony	121-1	34764	35322	35994	35360	1.74	cps
Arsenic	75-2	420	413	393	409	3.39	cps
Barium	135-1	295010	298983	302692	298895	1.29	cps
Barium	137-1	521071	524511	529393	524991	0.80	cps
Beryllium	9-1	659	661	666	662	0.58	cps
Bismuth	209-1	11659259	11569158	11560422	11596280	0.47	cps
Bismuth	209-2	4561491	3982784	4285137	4276471	6.77	cps
Bromine	81-1	52709	60061	64628	59133	10.17	cps
Cadmium	108-1	1327	1387	1423	1379	3.54	cps
Cadmium	106-1	10331	9457	9910	9899	4.42	cps
Cadmium	111-1	13640	13883	13495	13673	1.44	cps
Calcium	43-1	626385	635555	634552	632164	0.80	cps
Calcium	44-1	10098715	10296990	10197105	10197604	0.97	cps
Carbon	12-1	85644295	84759519	83453135	84618983	1.30	cps
Carbon	12-2	576640	568345	567619	570868	0.88	cps
Chlorine	35-1	9512720	10250704	10392773	10052066	4.70	cps
Chlorine	35-2	40904	40704	40921	40843	0.30	cps
Chromium	52-2	26287	26775	26181	26414	1.20	cps
Cobalt	59-2	48472	47623	46944	47679	1.61	cps
Copper	63-2	376833	376882	378505	377406	0.25	cps
Dysprosium	156-1	2210	2457	2280	2316	5.49	cps
Dysprosium	156-2	693	753	643	697	7.91	cps
Erbium	164-1	2280	2227	2127	2211	3.52	cps
Erbium	164-2	757	690	683	710	5.71	cps
Gadolinium	160-1	2264	2350	2244	2286	2.48	cps
Gadolinium	160-2	910	807	810	842	6.97	cps
Holmium	165-1	18578563	18720293	18790764	18696540	0.58	cps
Holmium	165-2	6334820	5714469	5991876	6013722	5.17	cps
Indium	115-1	14148090	14196871	14099139	14148033	0.35	cps
Indium	115-2	1514261	1299136	1379101	1397499	7.78	cps
Iron	54-2	455226	457960	456258	456481	0.30	cps
Iron	56-2	8518742	8537908	8519905	8525518	0.13	cps
Iron	57-2	210294	211666	212722	211561	0.58	cps
Krypton	83-1	223	200	283	236	18.25	cps
Lead	206-1	347113	350821	356490	351475	1.34	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	292590	298837	294770	295399	1.07	cps
Lead	208-1	1363651	1375953	1380313	1373306	0.63	cps
Lithium	6-1	8005371	8026175	7931606	7987717	0.62	cps
Magnesium	24-2	707178	716020	713320	712173	0.64	cps
Manganese	55-2	99896	101947	100342	100729	1.07	cps
Molybdenum	94-1	435065	439300	443410	439258	0.95	cps
Molybdenum	95-1	707894	715275	724512	715894	1.16	cps
Molybdenum	96-1	760727	766055	768229	765004	0.50	cps
Molybdenum	97-1	444610	442598	448810	445339	0.71	cps
Molybdenum	98-1	1141958	1164789	1168509	1158419	1.24	cps
Neodymium	150-1	3247	3027	3130	3135	3.51	cps
Neodymium	150-2	663	590	670	641	6.92	cps
Nickel	60-2	19397	18956	18946	19100	1.35	cps
Phosphorus	31-2	5384	5498	5438	5440	1.04	cps
Potassium	39-2	427479	426986	431975	428813	0.64	cps
Rhodium	103-1	12794897	12957565	12925831	12892764	0.67	cps
Rhodium	103-2	5118223	4471284	4727893	4772466	6.83	cps
Scandium	45-1	10180513	10123686	10091715	10131971	0.44	cps
Scandium	45-2	197781	171659	183553	184331	7.09	cps
Selenium	82-1	50	93	7	50	86.66	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	10	23	13	66.12	cps
Silicon	28-1	72418261	72358827	73006927	72594672	0.49	cps
Silver	107-1	3287	3220	3244	3250	1.04	cps
Silver	109-1	2970	2960	3087	3006	2.34	cps
Sodium	23-2	24669511	24979620	25021663	24890265	0.77	cps
Strontium	86-1	170812	171295	172398	171502	0.47	cps
Strontium	88-1	1503656	1507359	1487867	1499627	0.69	cps
Sulfur	34-1	1142108	1152510	1143053	1145891	0.50	cps
Terbium	159-1	19411404	19071166	18774011	19085527	1.67	cps
Terbium	159-2	6410209	5536924	5897114	5948083	7.38	cps
Thallium	203-1	1163	1087	1210	1153	5.40	cps
Thallium	205-1	2834	2664	2620	2706	4.17	cps
Tin	118-1	44178	44171	44917	44422	0.96	cps
Titanium	47-1	69310	59590	59781	62894	8.84	cps
Uranium	238-1	6062	6312	6215	6196	2.04	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 16:57:01	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	6942	6762	6555	6753	2.87	cps
Ytterbium	172-1	847	850	893	863	3.02	cps
Ytterbium	172-2	387	317	343	349	10.13	cps
Ytterbium	176-1	3237	3284	3087	3203	3.21	cps
Ytterbium	176-2	700	613	627	647	7.22	cps
Yttrium	89-1	26203518	26425996	25851290	26160268	1.11	cps
Yttrium	89-2	1983949	1699435	1763227	1815537	8.22	cps
Zinc	66-2	1172775	1173170	1170085	1172010	0.14	cps
Zirconium	90-1	90387	91219	91185	90931	0.52	cps
Zirconium	91-1	20342	20502	19958	20267	1.38	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	37609	36426	36472	36835	1.82	cps
Antimony	121-1	32355	33892	33043	33097	2.33	cps
Arsenic	75-2	393	460	370	408	11.45	cps
Barium	135-1	284538	287009	292821	288123	1.48	cps
Barium	137-1	499294	504380	506819	503497	0.76	cps
Beryllium	9-1	606	579	591	592	2.33	cps
Bismuth	209-1	11674484	11571504	11510506	11585498	0.72	cps
Bismuth	209-2	4406993	4343818	4247154	4332655	1.86	cps
Bromine	81-1	52250	60041	63901	58731	10.11	cps
Cadmium	108-1	1233	1200	1350	1261	6.25	cps
Cadmium	106-1	9807	9487	9497	9597	1.90	cps
Cadmium	111-1	13877	13483	13250	13537	2.34	cps
Calcium	43-1	602092	601979	607578	603883	0.53	cps
Calcium	44-1	9868664	9781938	9832473	9827692	0.44	cps
Carbon	12-1	67584429	70246212	70789607	69540083	2.47	cps
Carbon	12-2	511516	508075	507693	509095	0.41	cps
Chlorine	35-1	8268456	8151420	7959637	8126504	1.92	cps
Chlorine	35-2	30352	29397	27874	29207	4.28	cps
Chromium	52-2	24932	25833	24778	25181	2.26	cps
Cobalt	59-2	46967	45773	46241	46327	1.30	cps
Copper	63-2	364341	363031	365902	364425	0.39	cps
Dysprosium	156-1	2120	2417	2300	2279	6.56	cps
Dysprosium	156-2	687	760	737	728	5.15	cps
Erbium	164-1	2100	2134	2104	2112	0.87	cps
Erbium	164-2	640	690	647	659	4.12	cps
Gadolinium	160-1	2227	2190	2047	2155	4.42	cps
Gadolinium	160-2	837	823	743	801	6.30	cps
Holmium	165-1	19344079	19019054	18692726	19018620	1.71	cps
Holmium	165-2	6147148	6140018	6039699	6108955	0.98	cps
Indium	115-1	14323421	14289342	14470443	14361069	0.67	cps
Indium	115-2	1399046	1387875	1384543	1390488	0.55	cps
Iron	54-2	441948	440966	441392	441435	0.11	cps
Iron	56-2	8210421	8242524	8170001	8207649	0.44	cps
Iron	57-2	203870	202814	202693	203126	0.32	cps
Krypton	83-1	330	197	223	250	28.22	cps
Lead	206-1	337838	336921	340615	338458	0.57	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	282464	284745	286572	284594	0.72	cps
Lead	208-1	1311379	1318719	1327201	1319100	0.60	cps
Lithium	6-1	8105908	8120160	8016034	8080700	0.70	cps
Magnesium	24-2	686466	685120	683347	684978	0.23	cps
Manganese	55-2	99208	97141	99104	98484	1.18	cps
Molybdenum	94-1	420831	424124	421920	422292	0.40	cps
Molybdenum	95-1	680354	689175	686839	685456	0.67	cps
Molybdenum	96-1	728237	733775	740610	734207	0.84	cps
Molybdenum	97-1	422875	423687	430936	425833	1.04	cps
Molybdenum	98-1	1098285	1111851	1113966	1108034	0.77	cps
Neodymium	150-1	2937	3200	3114	3084	4.35	cps
Neodymium	150-2	750	710	720	727	2.86	cps
Nickel	60-2	18238	18462	18519	18406	0.81	cps
Phosphorus	31-2	5101	5214	5028	5114	1.84	cps
Potassium	39-2	412236	412367	413069	412558	0.11	cps
Rhodium	103-1	12984450	12971486	13095502	13017146	0.52	cps
Rhodium	103-2	4839071	4753972	4760903	4784648	0.99	cps
Scandium	45-1	10313393	10241227	10234855	10263158	0.43	cps
Scandium	45-2	185897	184534	183576	184669	0.63	cps
Selenium	82-1	-70	110	70	37	257.77	cps
Selenium	77-2	3	17	10	10	66.70	cps
Selenium	78-2	3	3	10	6	69.34	cps
Silicon	28-1	68615892	69350889	70004461	69323747	1.00	cps
Silver	107-1	3217	3154	2934	3101	4.80	cps
Silver	109-1	2707	2730	2604	2680	2.52	cps
Sodium	23-2	24293513	24188619	23909220	24130450	0.82	cps
Strontium	86-1	164674	167598	164482	165584	1.05	cps
Strontium	88-1	1403500	1416965	1435040	1418502	1.12	cps
Sulfur	34-1	1092475	1109679	1103915	1102023	0.79	cps
Terbium	159-1	19141067	19245655	19402356	19263026	0.68	cps
Terbium	159-2	6003394	5899943	5834850	5912729	1.44	cps
Thallium	203-1	867	860	770	832	6.49	cps
Thallium	205-1	2047	2014	1974	2011	1.83	cps
Tin	118-1	41727	41824	42991	42180	1.67	cps
Titanium	47-1	57736	57854	58278	57956	0.49	cps
Uranium	238-1	5688	5808	5928	5808	2.07	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:00:18	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	6615	6845	6725	6728	1.71	cps
Ytterbium	172-1	870	830	793	831	4.61	cps
Ytterbium	172-2	290	363	340	331	11.31	cps
Ytterbium	176-1	3154	3254	3190	3199	1.58	cps
Ytterbium	176-2	527	667	617	603	11.76	cps
Yttrium	89-1	26170327	26310193	26839062	26439861	1.33	cps
Yttrium	89-2	1869316	1838958	1807416	1838563	1.68	cps
Zinc	66-2	1136565	1124478	1132969	1131337	0.55	cps
Zirconium	90-1	87436	87788	87536	87586	0.21	cps
Zirconium	91-1	19497	19474	19414	19461	0.22	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7715	7959	8339	8004	3.93	cps
Antimony	121-1	7445	7299	7612	7452	2.10	cps
Arsenic	75-2	110	100	73	94	20.07	cps
Barium	135-1	61696	61559	61271	61509	0.35	cps
Barium	137-1	107473	107584	107906	107654	0.21	cps
Beryllium	9-1	475	427	391	431	9.74	cps
Bismuth	209-1	12322955	12014815	11767146	12034972	2.31	cps
Bismuth	209-2	4423078	4400942	4318055	4380692	1.26	cps
Bromine	81-1	20101	21109	21583	20931	3.62	cps
Cadmium	108-1	257	230	280	256	9.79	cps
Cadmium	106-1	9036	8593	8483	8704	3.37	cps
Cadmium	111-1	4228	4221	4338	4262	1.53	cps
Calcium	43-1	130539	129975	132039	130851	0.82	cps
Calcium	44-1	2146877	2166665	2167413	2160318	0.54	cps
Carbon	12-1	20734763	22348581	21549705	21544350	3.75	cps
Carbon	12-2	146454	146279	143758	145497	1.04	cps
Chlorine	35-1	2629152	2555565	2424540	2536419	4.09	cps
Chlorine	35-2	9000	8773	7929	8567	6.59	cps
Chromium	52-2	6091	5841	5915	5949	2.16	cps
Cobalt	59-2	9947	9733	10107	9929	1.89	cps
Copper	63-2	81894	81844	82022	81920	0.11	cps
Dysprosium	156-1	493	540	440	491	10.19	cps
Dysprosium	156-2	147	133	133	138	5.59	cps
Erbium	164-1	560	537	553	550	2.19	cps
Erbium	164-2	127	163	170	153	15.22	cps
Gadolinium	160-1	563	657	633	618	7.86	cps
Gadolinium	160-2	237	197	220	218	9.23	cps
Holmium	165-1	19128241	18989301	18711092	18942878	1.12	cps
Holmium	165-2	6079357	5994794	6050135	6041429	0.71	cps
Indium	115-1	15116817	14659898	14346087	14707601	2.64	cps
Indium	115-2	1399096	1383014	1387080	1389730	0.60	cps
Iron	54-2	94067	97040	94318	95142	1.73	cps
Iron	56-2	1890524	1805484	1780061	1825356	3.17	cps
Iron	57-2	43991	44302	43556	43950	0.85	cps
Krypton	83-1	250	263	217	243	9.88	cps
Lead	206-1	75582	74904	75786	75424	0.61	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	63407	62654	63126	63062	0.60	cps
Lead	208-1	294852	291532	294147	293510	0.60	cps
Lithium	6-1	8264350	8248700	8098030	8203693	1.12	cps
Magnesium	24-2	145729	148490	147339	147186	0.94	cps
Manganese	55-2	20872	21289	20738	20967	1.37	cps
Molybdenum	94-1	91126	90709	91213	91016	0.30	cps
Molybdenum	95-1	146954	147204	146432	146863	0.27	cps
Molybdenum	96-1	157060	158192	157256	157502	0.38	cps
Molybdenum	97-1	91686	90566	91093	91115	0.62	cps
Molybdenum	98-1	237390	238495	234919	236935	0.77	cps
Neodymium	150-1	607	630	677	638	5.59	cps
Neodymium	150-2	150	177	103	143	25.89	cps
Nickel	60-2	4764	5054	5014	4944	3.18	cps
Phosphorus	31-2	1080	1167	1187	1145	4.95	cps
Potassium	39-2	94433	95037	95047	94839	0.37	cps
Rhodium	103-1	13645758	13343101	13186047	13391635	1.74	cps
Rhodium	103-2	4894117	4896777	4830232	4873709	0.77	cps
Scandium	45-1	10349603	10194183	10090761	10211515	1.28	cps
Scandium	45-2	182283	183691	183860	183278	0.47	cps
Selenium	82-1	-80	-63	-13	-52	-66.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	7	10	8	24.71	cps
Silicon	28-1	15138844	14931032	14855481	14975119	0.98	cps
Silver	107-1	850	877	993	907	8.41	cps
Silver	109-1	670	773	703	716	7.37	cps
Sodium	23-2	5089105	5146583	5136698	5124128	0.60	cps
Strontium	86-1	35355	36010	36604	35990	1.74	cps
Strontium	88-1	304805	304496	304097	304466	0.12	cps
Sulfur	34-1	591753	592078	595483	593105	0.35	cps
Terbium	159-1	19911861	19603409	19250877	19588716	1.69	cps
Terbium	159-2	5994872	5876986	5905947	5925935	1.04	cps
Thallium	203-1	630	677	743	683	8.34	cps
Thallium	205-1	1560	1537	1673	1590	4.60	cps
Tin	118-1	10628	10444	10578	10550	0.90	cps
Titanium	47-1	12476	12506	13173	12718	3.10	cps
Uranium	238-1	1313	1370	1250	1311	4.58	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	3181L	Dilution Factor :	25
Date & Time Acquired :	2025-01-17 17:03:33	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1380	1320	1490	1397	6.17	cps
Ytterbium	172-1	313	280	277	290	6.99	cps
Ytterbium	172-2	73	103	120	99	23.92	cps
Ytterbium	176-1	2627	2670	2564	2620	2.05	cps
Ytterbium	176-2	417	437	393	416	5.22	cps
Yttrium	89-1	27408327	26624627	26125460	26719471	2.42	cps
Yttrium	89-2	1804955	1793445	1822997	1807133	0.82	cps
Zinc	66-2	244149	247732	246510	246130	0.74	cps
Zirconium	90-1	18579	19554	19531	19221	2.89	cps
Zirconium	91-1	4071	4371	4277	4240	3.62	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	205655	205206	205202	205354	0.13	cps
Antimony	121-1	5570593	5728571	5653829	5650997	1.40	cps
Arsenic	75-2	103134	104326	103416	103625	0.60	cps
Barium	135-1	2856703	2865774	2856559	2859679	0.18	cps
Barium	137-1	4901180	4946901	5002001	4950028	1.02	cps
Beryllium	9-1	1968747	2022378	2013710	2001612	1.44	cps
Bismuth	209-1	11408131	11151686	11590228	11383348	1.94	cps
Bismuth	209-2	4170121	4306485	4339028	4271878	2.10	cps
Bromine	81-1	43651	49795	53615	49020	10.25	cps
Cadmium	108-1	108355	111680	112195	110743	1.88	cps
Cadmium	106-1	169531	174597	174177	172768	1.63	cps
Cadmium	111-1	1347389	1368952	1360969	1359103	0.80	cps
Calcium	43-1	1127300	1157438	1159944	1148227	1.58	cps
Calcium	44-1	18561840	18698212	18668735	18642929	0.38	cps
Carbon	12-1	59215161	61838069	63220247	61424492	3.31	cps
Carbon	12-2	454665	451223	448599	451496	0.67	cps
Chlorine	35-1	3606444	3935243	4121686	3887791	6.71	cps
Chlorine	35-2	16783	16773	17778	17111	3.37	cps
Chromium	52-2	1119776	1120612	1120063	1120150	0.04	cps
Cobalt	59-2	2214997	2197537	2224552	2212362	0.62	cps
Copper	63-2	5353848	5438502	5411240	5401196	0.80	cps
Dysprosium	156-1	2250	2147	2264	2220	2.88	cps
Dysprosium	156-2	590	677	553	607	10.44	cps
Erbium	164-1	1990	1890	1997	1959	3.05	cps
Erbium	164-2	613	707	573	631	10.84	cps
Gadolinium	160-1	2080	2000	1843	1975	6.10	cps
Gadolinium	160-2	713	830	680	741	10.63	cps
Holmium	165-1	18693406	17845315	19129361	18556027	3.52	cps
Holmium	165-2	5934725	6145430	6054070	6044742	1.75	cps
Indium	115-1	14036071	13419403	14240173	13898549	3.07	cps
Indium	115-2	1319507	1384753	1393625	1365962	2.96	cps
Iron	54-2	1343709	1317540	1334147	1331799	0.99	cps
Iron	56-2	24366964	24236940	23976369	24193424	0.82	cps
Iron	57-2	595905	593573	593354	594277	0.24	cps
Krypton	83-1	170	227	247	214	18.55	cps
Lead	206-1	6739844	6765006	6875370	6793407	1.06	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5831566	5898480	5941468	5890505	0.94	cps
Lead	208-1	26844671	27192689	27263393	27100251	0.83	cps
Lithium	6-1	7965432	7717053	8164794	7949093	2.82	cps
Magnesium	24-2	3012311	2980819	2991486	2994872	0.53	cps
Manganese	55-2	1486215	1422101	1419688	1442668	2.62	cps
Molybdenum	94-1	7594508	7651623	7692466	7646199	0.64	cps
Molybdenum	95-1	6904644	6969734	6960737	6945038	0.51	cps
Molybdenum	96-1	7947962	7947107	8180459	8025176	1.68	cps
Molybdenum	97-1	4277669	4277263	4376595	4310509	1.33	cps
Molybdenum	98-1	11168539	11369122	11436187	11324616	1.23	cps
Neodymium	150-1	2890	2994	2907	2930	1.89	cps
Neodymium	150-2	650	587	603	613	5.35	cps
Nickel	60-2	583397	589146	587748	586764	0.51	cps
Phosphorus	31-2	4824	4747	5011	4861	2.79	cps
Potassium	39-2	1282726	1245925	1300327	1276326	2.17	cps
Rhodium	103-1	12757306	12124048	13135370	12672241	4.03	cps
Rhodium	103-2	4599230	4751732	4792583	4714515	2.16	cps
Scandium	45-1	9978511	9611349	10234336	9941399	3.15	cps
Scandium	45-2	179818	187089	189813	185573	2.78	cps
Selenium	82-1	90910	91702	92597	91736	0.92	cps
Selenium	77-2	1533	1580	1640	1585	3.38	cps
Selenium	78-2	5424	5144	5388	5319	2.86	cps
Silicon	28-1	65525071	66440677	67004826	66323525	1.13	cps
Silver	107-1	14494	14254	14484	14411	0.94	cps
Silver	109-1	4504	4547	4678	4576	1.97	cps
Sodium	23-2	27157025	26693815	26494720	26781854	1.27	cps
Strontium	86-1	2063898	2099078	2083847	2082274	0.85	cps
Strontium	88-1	17476145	17632958	17695838	17601647	0.64	cps
Sulfur	34-1	1057588	1055097	1069794	1060826	0.74	cps
Terbium	159-1	18986452	18252377	19275918	18838249	2.80	cps
Terbium	159-2	5709683	6111535	6020967	5947395	3.54	cps
Thallium	203-1	5836434	5859068	6051186	5915563	1.99	cps
Thallium	205-1	13741133	13835367	13850794	13809098	0.43	cps
Tin	118-1	1702195	1763975	1752434	1739535	1.89	cps
Titanium	47-1	1320078	1368060	1349442	1345860	1.80	cps
Uranium	238-1	19482406	19392997	19438072	19437825	0.23	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:06:52	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	895302	894607	897054	895655	0.14	cps
Ytterbium	172-1	783	780	853	806	5.14	cps
Ytterbium	172-2	357	290	343	330	10.69	cps
Ytterbium	176-1	15873	15729	16534	16045	2.67	cps
Ytterbium	176-2	4774	4988	4774	4845	2.54	cps
Yttrium	89-1	26196576	24948610	26471785	25872324	3.14	cps
Yttrium	89-2	1755059	1855911	1815885	1808952	2.81	cps
Zinc	66-2	1545730	1510456	1511440	1522542	1.32	cps
Zirconium	90-1	10256795	10334016	10402120	10330977	0.70	cps
Zirconium	91-1	2307651	2383283	2343665	2344866	1.61	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	206517	209363	207380	207753	0.70	cps
Antimony	121-1	5643202	5639257	5648355	5643605	0.08	cps
Arsenic	75-2	103564	103913	104897	104124	0.66	cps
Barium	135-1	2888093	2872676	2935402	2898724	1.13	cps
Barium	137-1	4880576	4945516	4963421	4929837	0.88	cps
Beryllium	9-1	2024745	2056550	2060263	2047186	0.95	cps
Bismuth	209-1	11137497	11149594	11320199	11202430	0.91	cps
Bismuth	209-2	4242068	4230557	4144359	4205661	1.27	cps
Bromine	81-1	46928	51457	55131	51172	8.03	cps
Cadmium	108-1	111103	111163	110693	110986	0.23	cps
Cadmium	106-1	174205	174218	176495	174973	0.75	cps
Cadmium	111-1	1367088	1373212	1372103	1370801	0.24	cps
Calcium	43-1	1147820	1155764	1167912	1157165	0.87	cps
Calcium	44-1	18788323	18852736	18748479	18796513	0.28	cps
Carbon	12-1	59908132	60823347	62274182	61001887	1.96	cps
Carbon	12-2	450731	445540	449842	448704	0.62	cps
Chlorine	35-1	3419597	3656679	3831374	3635883	5.68	cps
Chlorine	35-2	15408	16112	16276	15932	2.89	cps
Chromium	52-2	1126502	1125234	1121904	1124547	0.21	cps
Cobalt	59-2	2251734	2211214	2237065	2233338	0.92	cps
Copper	63-2	5412664	5446355	5469986	5443002	0.53	cps
Dysprosium	156-1	1940	2347	2180	2156	9.48	cps
Dysprosium	156-2	630	627	623	627	0.53	cps
Erbium	164-1	1977	2040	1947	1988	2.40	cps
Erbium	164-2	667	507	510	561	16.30	cps
Gadolinium	160-1	1910	2154	2207	2090	7.57	cps
Gadolinium	160-2	743	757	720	740	2.51	cps
Holmium	165-1	18293851	18360796	18501682	18385443	0.58	cps
Holmium	165-2	6019897	6071821	5991451	6027723	0.68	cps
Indium	115-1	13644223	13868854	13878110	13797062	0.96	cps
Indium	115-2	1357322	1374033	1342626	1357994	1.16	cps
Iron	54-2	1324447	1331285	1333451	1329728	0.35	cps
Iron	56-2	23993257	24064220	23882018	23979832	0.38	cps
Iron	57-2	598165	596250	593763	596059	0.37	cps
Krypton	83-1	233	230	210	224	5.62	cps
Lead	206-1	6825834	6872655	6916624	6871704	0.66	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5920518	5923203	5943316	5929012	0.21	cps
Lead	208-1	27159582	27102660	27408824	27223689	0.60	cps
Lithium	6-1	7909508	7913285	7871217	7898004	0.29	cps
Magnesium	24-2	3063467	3052341	3010386	3042064	0.92	cps
Manganese	55-2	1468657	1435921	1448099	1450892	1.14	cps
Molybdenum	94-1	7621343	7650394	7745683	7672473	0.85	cps
Molybdenum	95-1	6938375	7056041	7074608	7023008	1.05	cps
Molybdenum	96-1	8100268	8185427	8210233	8165309	0.71	cps
Molybdenum	97-1	4303608	4337314	4352526	4331149	0.58	cps
Molybdenum	98-1	11356851	11403397	11458553	11406267	0.45	cps
Neodymium	150-1	2807	2947	2947	2900	2.79	cps
Neodymium	150-2	733	637	757	709	8.98	cps
Nickel	60-2	588581	593451	592217	591416	0.43	cps
Phosphorus	31-2	4884	5178	4611	4891	5.80	cps
Potassium	39-2	1277040	1275987	1290090	1281039	0.61	cps
Rhodium	103-1	12509150	12572619	12711703	12597824	0.82	cps
Rhodium	103-2	4683768	4760395	4639311	4694492	1.30	cps
Scandium	45-1	9801477	9798039	9793842	9797786	0.04	cps
Scandium	45-2	185629	189551	183164	186115	1.73	cps
Selenium	82-1	91850	92225	93296	92457	0.81	cps
Selenium	77-2	1513	1440	1560	1505	4.02	cps
Selenium	78-2	5148	5228	5281	5219	1.29	cps
Silicon	28-1	66412209	66409152	66700186	66507182	0.25	cps
Silver	107-1	14308	14251	14378	14312	0.44	cps
Silver	109-1	4554	4441	4577	4524	1.62	cps
Sodium	23-2	27269337	26991651	26749726	27003572	0.96	cps
Strontium	86-1	2083354	2099862	2089001	2090739	0.40	cps
Strontium	88-1	17774036	18043541	17899243	17905607	0.75	cps
Sulfur	34-1	1056866	1041839	1052051	1050252	0.73	cps
Terbium	159-1	18571309	18757402	18584092	18637601	0.56	cps
Terbium	159-2	5911348	5885289	5723972	5840203	1.74	cps
Thallium	203-1	5962310	5913172	5924899	5933460	0.43	cps
Thallium	205-1	13802879	13690085	13839083	13777349	0.56	cps
Tin	118-1	1757651	1774962	1751825	1761479	0.68	cps
Titanium	47-1	1339788	1368056	1374214	1360686	1.35	cps
Uranium	238-1	19627413	19580135	19588303	19598617	0.13	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	3181	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:09:43	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	891973	905727	903306	900335	0.82	cps
Ytterbium	172-1	777	820	817	804	3.00	cps
Ytterbium	172-2	367	383	337	362	6.53	cps
Ytterbium	176-1	16047	16123	15543	15904	1.98	cps
Ytterbium	176-2	4961	4788	5168	4972	3.83	cps
Yttrium	89-1	25445260	25701472	25839103	25661945	0.78	cps
Yttrium	89-2	1804740	1823261	1796626	1808209	0.75	cps
Zinc	66-2	1534621	1515690	1523296	1524535	0.62	cps
Zirconium	90-1	10356273	10457149	10463743	10425722	0.58	cps
Zirconium	91-1	2330742	2398745	2409070	2379519	1.79	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	208177	208258	206454	207629	0.49	cps
Antimony	121-1	5589180	5668951	5690400	5649510	0.94	cps
Arsenic	75-2	105054	104238	104319	104537	0.43	cps
Barium	135-1	2874307	2897827	2892897	2888344	0.43	cps
Barium	137-1	4926314	4975233	5053655	4985067	1.29	cps
Beryllium	9-1	2020046	2059578	2028818	2036147	1.02	cps
Bismuth	209-1	10997811	11319750	11289104	11202222	1.59	cps
Bismuth	209-2	4177947	4232153	4176074	4195391	0.76	cps
Bromine	81-1	46540	51635	54696	50957	8.08	cps
Cadmium	108-1	110797	112128	112857	111927	0.93	cps
Cadmium	106-1	173813	172779	176520	174371	1.11	cps
Cadmium	111-1	1351684	1370798	1373037	1365173	0.86	cps
Calcium	43-1	1148339	1158301	1166859	1157833	0.80	cps
Calcium	44-1	18573420	18774318	18966358	18771365	1.05	cps
Carbon	12-1	58210756	60909654	61758104	60292838	3.07	cps
Carbon	12-2	445325	446948	449261	447178	0.44	cps
Chlorine	35-1	3374416	3705286	3849517	3643073	6.69	cps
Chlorine	35-2	15969	16446	16423	16279	1.65	cps
Chromium	52-2	1132535	1129928	1132386	1131616	0.13	cps
Cobalt	59-2	2263577	2237478	2266088	2255715	0.70	cps
Copper	63-2	5401370	5485155	5465226	5450584	0.80	cps
Dysprosium	156-1	2254	2270	2080	2201	4.78	cps
Dysprosium	156-2	587	630	620	612	3.71	cps
Erbium	164-1	2077	1967	2020	2021	2.72	cps
Erbium	164-2	673	543	623	613	10.69	cps
Gadolinium	160-1	2237	1910	1914	2020	9.29	cps
Gadolinium	160-2	787	750	890	809	8.98	cps
Holmium	165-1	18037718	18519534	18609252	18388835	1.67	cps
Holmium	165-2	5994406	5972056	5883928	5950130	0.98	cps
Indium	115-1	13594759	13856259	14188328	13879782	2.14	cps
Indium	115-2	1362742	1347439	1331187	1347123	1.17	cps
Iron	54-2	1338354	1343046	1341589	1340996	0.18	cps
Iron	56-2	24595034	24498881	24041580	24378498	1.21	cps
Iron	57-2	601056	605516	602023	602865	0.39	cps
Krypton	83-1	220	230	223	224	2.27	cps
Lead	206-1	6769491	6928073	6883337	6860301	1.19	cps

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5931975	5966463	6103286	6000575	1.51	cps
Lead	208-1	27214478	27306785	27618725	27379996	0.77	cps
Lithium	6-1	7864206	7961853	8012518	7946192	0.95	cps
Magnesium	24-2	3105243	3028012	3026266	3053173	1.48	cps
Manganese	55-2	1479868	1445725	1445774	1457122	1.35	cps
Molybdenum	94-1	7771127	7731352	7749662	7750714	0.26	cps
Molybdenum	95-1	6975443	7093273	7125974	7064897	1.12	cps
Molybdenum	96-1	8171494	8201169	8201614	8191426	0.21	cps
Molybdenum	97-1	4349763	4353810	4382852	4362142	0.41	cps
Molybdenum	98-1	11415173	11389344	11492085	11432201	0.47	cps
Neodymium	150-1	2930	2767	3087	2928	5.47	cps
Neodymium	150-2	640	627	607	624	2.69	cps
Nickel	60-2	593467	591973	594143	593194	0.19	cps
Phosphorus	31-2	4928	5054	4828	4936	2.30	cps
Potassium	39-2	1271682	1279611	1273682	1274992	0.32	cps
Rhodium	103-1	12561044	12519334	12677293	12585890	0.65	cps
Rhodium	103-2	4710915	4718581	4553302	4660933	2.00	cps
Scandium	45-1	9778979	9912225	10037976	9909727	1.31	cps
Scandium	45-2	183712	183896	181855	183154	0.62	cps
Selenium	82-1	90330	94134	93010	92491	2.11	cps
Selenium	77-2	1440	1587	1587	1538	5.51	cps
Selenium	78-2	5284	5118	5168	5190	1.65	cps
Silicon	28-1	66667524	66976831	66536251	66726868	0.34	cps
Silver	107-1	13740	14121	14304	14055	2.05	cps
Silver	109-1	4367	4541	4647	4519	3.13	cps
Sodium	23-2	27432012	27389948	27109625	27310528	0.64	cps
Strontium	86-1	2074386	2150914	2107834	2111045	1.82	cps
Strontium	88-1	17920103	17955213	17752075	17875797	0.61	cps
Sulfur	34-1	1060488	1043063	1050626	1051392	0.83	cps
Terbium	159-1	18541771	18728463	18872525	18714253	0.89	cps
Terbium	159-2	5875691	5873245	5825197	5858044	0.49	cps
Thallium	203-1	5916318	5996183	6040591	5984364	1.05	cps
Thallium	205-1	13882309	14186335	13896336	13988327	1.23	cps
Tin	118-1	1727929	1781789	1804401	1771373	2.22	cps
Titanium	47-1	1342307	1373007	1379499	1364938	1.46	cps
Uranium	238-1	19788870	19666067	19608323	19687753	0.47	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1094-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	3181A	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:12:36	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	903138	900933	901718	901930	0.12	cps
Ytterbium	172-1	737	810	730	759	5.85	cps
Ytterbium	172-2	387	350	337	358	7.24	cps
Ytterbium	176-1	15753	15793	16217	15921	1.61	cps
Ytterbium	176-2	4844	5164	4688	4899	4.96	cps
Yttrium	89-1	25549996	25884035	25905415	25779815	0.77	cps
Yttrium	89-2	1810586	1803284	1751109	1788326	1.81	cps
Zinc	66-2	1556948	1553171	1537549	1549223	0.66	cps
Zirconium	90-1	10464257	10473472	10351111	10429613	0.65	cps
Zirconium	91-1	2355411	2382701	2372910	2370341	0.58	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3314774	3332569	3304027	3317123	0.43	cps
Antimony	121-1	6939331	7071399	6954844	6988525	1.03	cps
Arsenic	75-2	127413	127860	128277	127850	0.34	cps
Barium	135-1	9015251	9057577	8925151	8999326	0.75	cps
Barium	137-1	15684928	15592794	15542667	15606796	0.46	cps
Beryllium	9-1	2624939	2640290	2645140	2636790	0.40	cps
Bismuth	209-1	9447669	9633578	9547054	9542767	0.97	cps
Bismuth	209-2	3579312	3675977	3577223	3610837	1.56	cps
Bromine	81-1	8333	7939	8182	8151	2.44	cps
Cadmium	108-1	141963	141584	142349	141965	0.27	cps
Cadmium	106-1	206417	208656	209492	208188	0.76	cps
Cadmium	111-1	1665845	1661392	1705489	1677575	1.45	cps
Calcium	43-1	13003633	13139364	13095656	13079551	0.53	cps
Calcium	44-1	211763050	210796084	212897890	211819008	0.50	cps
Carbon	12-1	4970057	5153986	5302515	5142186	3.24	cps
Carbon	12-2	44293	45029	44858	44727	0.86	cps
Chlorine	35-1	209486	206491	207092	207690	0.76	cps
Chlorine	35-2	877	927	867	890	3.61	cps
Chromium	52-2	1608525	1552501	1568980	1576669	1.83	cps
Cobalt	59-2	2814415	2840944	2815340	2823566	0.53	cps
Copper	63-2	19688087	19728658	19877758	19764835	0.51	cps
Dysprosium	156-1	400	433	437	423	4.79	cps
Dysprosium	156-2	100	107	127	111	12.49	cps
Erbium	164-1	417	477	450	448	6.71	cps
Erbium	164-2	147	140	137	141	3.61	cps
Gadolinium	160-1	320	393	323	346	11.98	cps
Gadolinium	160-2	130	130	157	139	11.09	cps
Holmium	165-1	16629296	16586063	17080202	16765187	1.63	cps
Holmium	165-2	5621982	5492625	5621151	5578586	1.33	cps
Indium	115-1	11925572	11942724	12265907	12044734	1.59	cps
Indium	115-2	1217326	1217934	1216599	1217286	0.05	cps
Iron	54-2	15566596	15601080	15609542	15592406	0.15	cps
Iron	56-2	284604256	284421802	287138469	285388176	0.53	cps
Iron	57-2	7151568	7171587	7198333	7173829	0.33	cps
Krypton	83-1	293	250	227	257	13.18	cps
Lead	206-1	29295044	29352921	29181612	29276526	0.30	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25200528	25399304	25117042	25238958	0.57	cps
Lead	208-1	117035239	117001504	116173953	116736899	0.42	cps
Lithium	6-1	7018199	7042217	7067434	7042617	0.35	cps
Magnesium	24-2	55971703	56017316	55983228	55990749	0.04	cps
Manganese	55-2	6639823	6560767	6708801	6636464	1.12	cps
Molybdenum	94-1	25604389	25891566	25800401	25765452	0.57	cps
Molybdenum	95-1	37219830	37355146	37422103	37332360	0.28	cps
Molybdenum	96-1	40637227	40310448	41099997	40682557	0.98	cps
Molybdenum	97-1	22871828	23114308	23112748	23032961	0.61	cps
Molybdenum	98-1	60160524	60859292	60952046	60657287	0.71	cps
Neodymium	150-1	987	927	817	910	9.47	cps
Neodymium	150-2	50	53	103	69	43.37	cps
Nickel	60-2	724177	731419	722905	726167	0.63	cps
Phosphorus	31-2	28755	28879	29109	28914	0.62	cps
Potassium	39-2	16176354	16104699	16179048	16153367	0.26	cps
Rhodium	103-1	10390087	10643925	10775051	10603021	1.85	cps
Rhodium	103-2	3990552	3994140	4025260	4003317	0.48	cps
Scandium	45-1	8788648	8783427	8911704	8827927	0.82	cps
Scandium	45-2	173436	173446	174627	173836	0.39	cps
Selenium	82-1	109915	111111	110647	110558	0.55	cps
Selenium	77-2	1877	2074	1903	1951	5.47	cps
Selenium	78-2	6542	6392	6548	6494	1.36	cps
Silicon	28-1	21662230	22100191	21937815	21900078	1.01	cps
Silver	107-1	8811823	8935693	8813980	8853832	0.80	cps
Silver	109-1	8351353	8335475	8364336	8350388	0.17	cps
Sodium	23-2	111988925	110310038	111323322	111207428	0.76	cps
Strontium	86-1	2649145	2666102	2667464	2660904	0.38	cps
Strontium	88-1	22477596	22631373	22685858	22598276	0.48	cps
Sulfur	34-1	1081626	1071929	1062238	1071931	0.90	cps
Terbium	159-1	16734018	17235671	17038807	17002832	1.49	cps
Terbium	159-2	5477452	5489952	5496759	5488055	0.18	cps
Thallium	203-1	7704927	7563063	7571624	7613205	1.04	cps
Thallium	205-1	17736085	17883389	17809990	17809821	0.41	cps
Tin	118-1	6001242	6029424	6002786	6011151	0.26	cps
Titanium	47-1	11453712	11573056	11535378	11520716	0.53	cps
Uranium	238-1	25577902	25607267	25332754	25505974	0.59	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:21:55	DataFile Name :	061CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1205332	1202391	1197655	1201793	0.32	cps
Ytterbium	172-1	460	457	510	476	6.28	cps
Ytterbium	172-2	190	173	143	169	14.00	cps
Ytterbium	176-1	38469	37249	37964	37894	1.62	cps
Ytterbium	176-2	12106	12232	11949	12096	1.17	cps
Yttrium	89-1	22931631	23030986	23340947	23101188	0.92	cps
Yttrium	89-2	1684344	1683525	1689033	1685634	0.18	cps
Zinc	66-2	2103108	2111302	2116425	2110278	0.32	cps
Zirconium	90-1	13147493	13228108	13000318	13125306	0.88	cps
Zirconium	91-1	2997551	2894161	2959598	2950436	1.77	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	217	190	207	204	6.59	cps
Antimony	121-1	1603	1913	1947	1821	10.40	cps
Arsenic	75-2	3	13	13	10	57.75	cps
Barium	135-1	603	800	1003	802	24.93	cps
Barium	137-1	1090	1520	1660	1423	20.87	cps
Beryllium	9-1	1189	1199	1110	1166	4.17	cps
Bismuth	209-1	11488791	13049018	12631681	12389830	6.52	cps
Bismuth	209-2	4047497	5137911	4540104	4575171	11.94	cps
Bromine	81-1	7959	7666	7879	7834	1.94	cps
Cadmium	108-1	50	43	60	51	16.42	cps
Cadmium	106-1	7906	8996	8559	8487	6.47	cps
Cadmium	111-1	1686	1942	1917	1848	7.63	cps
Calcium	43-1	1203	1610	1830	1548	20.54	cps
Calcium	44-1	22915	26812	31595	27107	16.04	cps
Carbon	12-1	4044283	3972641	3952166	3989697	1.21	cps
Carbon	12-2	27616	28227	27409	27751	1.53	cps
Chlorine	35-1	173296	168713	168798	170269	1.54	cps
Chlorine	35-2	673	653	723	683	5.28	cps
Chromium	52-2	537	663	520	573	13.67	cps
Cobalt	59-2	143	193	137	158	19.63	cps
Copper	63-2	4627	4334	4234	4398	4.65	cps
Dysprosium	156-1	13	10	17	13	25.01	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	110	77	150	112	32.72	cps
Erbium	164-2	33	23	27	28	18.33	cps
Gadolinium	160-1	67	117	53	79	42.33	cps
Gadolinium	160-2	0	27	30	19	87.05	cps
Holmium	165-1	17954262	20257719	19580194	19264058	6.15	cps
Holmium	165-2	5564406	6886216	6108062	6186228	10.74	cps
Indium	115-1	14132568	15822380	15541266	15165404	5.97	cps
Indium	115-2	1270764	1634617	1433352	1446244	12.60	cps
Iron	54-2	853	773	807	811	4.95	cps
Iron	56-2	13273	13266	12049	12863	5.48	cps
Iron	57-2	343	377	260	327	18.40	cps
Krypton	83-1	247	177	177	200	20.21	cps
Lead	206-1	4944	5478	6105	5509	10.54	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4357	4624	5124	4702	8.28	cps
Lead	208-1	20073	21411	23428	21637	7.81	cps
Lithium	6-1	7841054	8637346	8543247	8340549	5.22	cps
Magnesium	24-2	2290	2044	1903	2079	9.42	cps
Manganese	55-2	340	367	317	341	7.33	cps
Molybdenum	94-1	2214	2464	3064	2580	16.93	cps
Molybdenum	95-1	2644	3220	4047	3304	21.36	cps
Molybdenum	96-1	2917	3430	4231	3526	18.78	cps
Molybdenum	97-1	1607	2097	2534	2079	22.30	cps
Molybdenum	98-1	4401	5368	6432	5400	18.81	cps
Neodymium	150-1	7	10	17	11	45.82	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	1170	1320	1310	1267	6.62	cps
Phosphorus	31-2	50	40	60	50	20.00	cps
Potassium	39-2	10787	10044	10300	10377	3.64	cps
Rhodium	103-1	12945156	14413599	14262680	13873812	5.82	cps
Rhodium	103-2	4491990	5528331	4978235	4999519	10.37	cps
Scandium	45-1	9698533	10998680	10732792	10476668	6.56	cps
Scandium	45-2	168178	211433	189639	189750	11.40	cps
Selenium	82-1	-47	30	37	7	694.67	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	0	3	4	114.60	cps
Silicon	28-1	435880	427574	421261	428238	1.71	cps
Silver	107-1	1730	1737	1913	1793	5.80	cps
Silver	109-1	1560	1493	1607	1553	3.67	cps
Sodium	23-2	44802	44668	43745	44405	1.30	cps
Strontium	86-1	540	527	563	543	3.42	cps
Strontium	88-1	1370	1867	2137	1791	21.71	cps
Sulfur	34-1	397483	401522	404278	401094	0.85	cps
Terbium	159-1	18508208	20681620	20260148	19816659	5.82	cps
Terbium	159-2	5448875	6824780	6051005	6108220	11.29	cps
Thallium	203-1	1117	1427	1430	1325	13.59	cps
Thallium	205-1	2877	3137	3521	3178	10.19	cps
Tin	118-1	1977	1850	2270	2032	10.60	cps
Titanium	47-1	727	907	1197	943	25.14	cps
Uranium	238-1	1317	1777	2260	1785	26.44	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:24:44	DataFile Name :	062CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	33	70	43	49	38.78	cps
Ytterbium	172-1	80	93	120	98	20.83	cps
Ytterbium	172-2	30	43	33	36	19.51	cps
Ytterbium	176-1	2317	2637	2544	2499	6.59	cps
Ytterbium	176-2	273	403	367	348	19.27	cps
Yttrium	89-1	25417005	28662232	28425870	27501702	6.58	cps
Yttrium	89-2	1672313	2066964	1836810	1858696	10.67	cps
Zinc	66-2	533	547	570	550	3.37	cps
Zirconium	90-1	1787	1917	2344	2016	14.45	cps
Zirconium	91-1	413	420	430	421	1.99	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	80	70	100	83	18.33	cps
Antimony	121-1	320	263	240	274	14.99	cps
Arsenic	75-2	7	0	3	3	100.05	cps
Barium	135-1	237	287	293	272	11.38	cps
Barium	137-1	467	563	447	492	12.68	cps
Beryllium	9-1	509	574	531	538	6.14	cps
Bismuth	209-1	11351764	11259103	11332337	11314401	0.43	cps
Bismuth	209-2	4248119	4225550	4203828	4225832	0.52	cps
Bromine	81-1	6932	7135	7255	7107	2.30	cps
Cadmium	108-1	27	17	30	24	28.38	cps
Cadmium	106-1	7272	7345	7335	7318	0.54	cps
Cadmium	111-1	1476	1504	1456	1479	1.63	cps
Calcium	43-1	867	803	833	834	3.80	cps
Calcium	44-1	14527	14014	14024	14188	2.07	cps
Carbon	12-1	3730417	3676144	3742691	3716417	0.95	cps
Carbon	12-2	27810	28207	27105	27707	2.01	cps
Chlorine	35-1	104762	103107	100784	102884	1.94	cps
Chlorine	35-2	380	327	380	362	8.50	cps
Chromium	52-2	450	497	600	516	14.89	cps
Cobalt	59-2	73	127	73	91	33.80	cps
Copper	63-2	3164	2910	3214	3096	5.25	cps
Dysprosium	156-1	7	20	13	13	49.99	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	70	90	97	86	16.22	cps
Erbium	164-2	30	27	20	26	19.92	cps
Gadolinium	160-1	57	97	77	77	26.09	cps
Gadolinium	160-2	10	7	17	11	45.82	cps
Holmium	165-1	17614306	17636970	17495771	17582349	0.43	cps
Holmium	165-2	5695924	5729948	5633859	5686577	0.86	cps
Indium	115-1	13634631	13714239	13637870	13662247	0.33	cps
Indium	115-2	1328565	1336932	1320197	1328565	0.63	cps
Iron	54-2	297	287	337	307	8.63	cps
Iron	56-2	3567	3577	3464	3536	1.77	cps
Iron	57-2	80	90	90	87	6.66	cps
Krypton	83-1	167	157	167	163	3.53	cps
Lead	206-1	2007	1974	2014	1998	1.07	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1697	1733	1590	1673	4.45	cps
Lead	208-1	7758	7631	7534	7641	1.47	cps
Lithium	6-1	7781114	7784870	7771766	7779250	0.09	cps
Magnesium	24-2	493	430	450	458	7.07	cps
Manganese	55-2	140	127	170	146	15.25	cps
Molybdenum	94-1	363	337	410	370	10.03	cps
Molybdenum	95-1	237	187	200	208	12.46	cps
Molybdenum	96-1	280	233	310	274	14.08	cps
Molybdenum	97-1	133	87	107	109	21.50	cps
Molybdenum	98-1	240	240	227	236	3.27	cps
Neodymium	150-1	20	27	20	22	17.33	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1083	1187	1143	1138	4.56	cps
Phosphorus	31-2	47	53	63	54	15.40	cps
Potassium	39-2	9543	9233	8526	9101	5.73	cps
Rhodium	103-1	12615754	12543700	12400914	12520122	0.87	cps
Rhodium	103-2	4612357	4601680	4648903	4620980	0.54	cps
Scandium	45-1	9531646	9441641	9396070	9456452	0.73	cps
Scandium	45-2	174647	177552	174428	175542	0.99	cps
Selenium	82-1	27	37	47	37	27.27	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	10	4	114.60	cps
Silicon	28-1	396007	391292	395662	394320	0.67	cps
Silver	107-1	253	173	227	218	18.70	cps
Silver	109-1	97	77	103	92	15.05	cps
Sodium	23-2	29610	29102	29289	29334	0.88	cps
Strontium	86-1	330	407	300	346	15.92	cps
Strontium	88-1	367	377	340	361	5.25	cps
Sulfur	34-1	403691	406462	406288	405480	0.38	cps
Terbium	159-1	17930181	18142530	17821096	17964602	0.91	cps
Terbium	159-2	5677347	5551523	5598513	5609128	1.13	cps
Thallium	203-1	560	470	450	493	11.88	cps
Thallium	205-1	1143	1080	990	1071	7.19	cps
Tin	118-1	1387	1540	1490	1472	5.31	cps
Titanium	47-1	183	153	163	167	9.16	cps
Uranium	238-1	60	43	50	51	16.42	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BL	Instrumnet Name :	P8
Client Sample ID :	PBW076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:36:53	DataFile Name :	063CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	0	8	89.21	cps
Ytterbium	172-1	80	97	70	82	16.39	cps
Ytterbium	172-2	23	37	37	32	23.90	cps
Ytterbium	176-1	2204	2117	2204	2175	2.30	cps
Ytterbium	176-2	323	333	363	340	6.12	cps
Yttrium	89-1	25011390	24878660	24885734	24925261	0.30	cps
Yttrium	89-2	1735139	1739176	1730181	1734832	0.26	cps
Zinc	66-2	500	540	490	510	5.19	cps
Zirconium	90-1	830	837	850	839	1.21	cps
Zirconium	91-1	187	167	217	190	13.25	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3010	2817	2887	2905	3.37	cps
Antimony	121-1	57949	58441	58702	58364	0.66	cps
Arsenic	75-2	467	613	557	546	13.56	cps
Barium	135-1	74094	75948	75257	75100	1.25	cps
Barium	137-1	131222	131013	133360	131865	0.98	cps
Beryllium	9-1	12199	11997	12055	12083	0.86	cps
Bismuth	209-1	11397987	11430919	11073234	11300713	1.75	cps
Bismuth	209-2	4124627	4027036	4143077	4098247	1.52	cps
Bromine	81-1	6865	6895	6778	6846	0.89	cps
Cadmium	108-1	713	633	583	643	10.19	cps
Cadmium	106-1	8756	8813	8483	8684	2.03	cps
Cadmium	111-1	9041	9395	8787	9074	3.37	cps
Calcium	43-1	56511	56430	55219	56053	1.29	cps
Calcium	44-1	898754	909337	903267	903786	0.59	cps
Carbon	12-1	3659370	3615966	3593930	3623089	0.92	cps
Carbon	12-2	25612	25566	25162	25446	0.97	cps
Chlorine	35-1	1417854	1584993	1630735	1544527	7.26	cps
Chlorine	35-2	7018	6715	6845	6859	2.22	cps
Chromium	52-2	13173	12899	12516	12863	2.57	cps
Cobalt	59-2	12025	12319	12192	12179	1.21	cps
Copper	63-2	23229	22798	23697	23241	1.93	cps
Dysprosium	156-1	33	30	20	28	24.98	cps
Dysprosium	156-2	3	0	10	4	114.60	cps
Erbium	164-1	83	87	73	81	8.56	cps
Erbium	164-2	33	33	33	33	0.00	cps
Gadolinium	160-1	97	73	73	81	16.61	cps
Gadolinium	160-2	13	20	13	16	24.76	cps
Holmium	165-1	17965282	18110815	17251796	17775964	2.59	cps
Holmium	165-2	5748974	5448312	5646642	5614642	2.72	cps
Indium	115-1	13942566	14105951	13194806	13747774	3.53	cps
Indium	115-2	1328091	1275141	1315092	1306108	2.11	cps
Iron	54-2	54510	54600	54647	54586	0.13	cps
Iron	56-2	1002889	1010861	1007356	1007035	0.40	cps
Iron	57-2	25626	24965	25967	25520	2.00	cps
Krypton	83-1	203	173	230	202	14.02	cps
Lead	206-1	27990	28070	27586	27882	0.93	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	24366	24507	24460	24444	0.29	cps
Lead	208-1	112361	111788	111287	111812	0.48	cps
Lithium	6-1	8019059	8091447	7663685	7924731	2.89	cps
Magnesium	24-2	229177	229261	229675	229371	0.12	cps
Manganese	55-2	3087	2937	2920	2981	3.08	cps
Molybdenum	94-1	62854	61853	63527	62745	1.34	cps
Molybdenum	95-1	77002	77810	77749	77520	0.58	cps
Molybdenum	96-1	83509	84974	85635	84706	1.28	cps
Molybdenum	97-1	46892	47511	47390	47264	0.69	cps
Molybdenum	98-1	123352	124623	123759	123911	0.52	cps
Neodymium	150-1	37	30	23	30	22.23	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	4241	4544	4707	4497	5.27	cps
Phosphorus	31-2	183	187	203	191	5.61	cps
Potassium	39-2	140550	140927	140673	140717	0.14	cps
Rhodium	103-1	12881340	12788779	12336611	12668910	2.30	cps
Rhodium	103-2	4705384	4373531	4584125	4554347	3.69	cps
Scandium	45-1	9716455	9788270	9256411	9587045	3.01	cps
Scandium	45-2	177254	166691	176654	173533	3.42	cps
Selenium	82-1	2490	2350	2660	2500	6.21	cps
Selenium	77-2	43	53	40	46	15.23	cps
Selenium	78-2	147	200	170	172	15.52	cps
Silicon	28-1	705231	707265	706720	706405	0.15	cps
Silver	107-1	38209	39296	38955	38820	1.43	cps
Silver	109-1	36258	38149	36899	37102	2.59	cps
Sodium	23-2	487487	490943	485884	488105	0.53	cps
Strontium	86-1	10431	10698	10821	10650	1.87	cps
Strontium	88-1	88920	90028	91239	90062	1.29	cps
Sulfur	34-1	416589	419051	418709	418116	0.32	cps
Terbium	159-1	18449295	18501807	17325808	18092303	3.67	cps
Terbium	159-2	5595721	5323526	5508037	5475761	2.54	cps
Thallium	203-1	33116	32902	32721	32913	0.60	cps
Thallium	205-1	76353	77841	78650	77615	1.50	cps
Tin	118-1	128482	129199	129138	128940	0.31	cps
Titanium	47-1	30055	31381	30406	30614	2.24	cps
Uranium	238-1	104834	104273	105667	104925	0.67	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	PB166076BS	Instrumnet Name :	P8
Client Sample ID :	LCS076	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:40:14	DataFile Name :	064LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	24842	24561	24768	24724	0.59	cps
Ytterbium	172-1	123	83	93	100	20.82	cps
Ytterbium	172-2	57	40	33	43	27.74	cps
Ytterbium	176-1	2520	2644	2450	2538	3.86	cps
Ytterbium	176-2	387	360	343	363	6.02	cps
Yttrium	89-1	25557001	25253867	24053712	24954860	3.19	cps
Yttrium	89-2	1697291	1649313	1713350	1686651	1.98	cps
Zinc	66-2	5344	5444	5284	5358	1.51	cps
Zirconium	90-1	53917	53870	56152	54647	2.39	cps
Zirconium	91-1	11965	11892	12099	11985	0.88	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1557	1543	1583	1561	1.30	cps
Antimony	121-1	297	327	303	309	5.10	cps
Arsenic	75-2	80	97	110	96	15.73	cps
Barium	135-1	1578682	1614911	1594568	1596054	1.14	cps
Barium	137-1	2746783	2768933	2801296	2772337	0.99	cps
Beryllium	9-1	1996	2080	2025	2034	2.09	cps
Bismuth	209-1	10536538	10719027	10722193	10659253	1.00	cps
Bismuth	209-2	4054061	4015525	4060842	4043476	0.60	cps
Bromine	81-1	63461	81435	92106	79001	18.33	cps
Cadmium	108-1	133	73	133	113	30.57	cps
Cadmium	106-1	8016	8009	7892	7972	0.87	cps
Cadmium	111-1	2990	2961	2945	2965	0.77	cps
Calcium	43-1	3746798	3853488	3886635	3828974	1.91	cps
Calcium	44-1	61241869	62300251	62739354	62093825	1.24	cps
Carbon	12-1	8951883	10090452	10791768	9944701	9.34	cps
Carbon	12-2	82818	83810	84920	83849	1.25	cps
Chlorine	35-1	9316340	10204038	10730532	10083637	7.09	cps
Chlorine	35-2	45772	45789	45956	45839	0.22	cps
Chromium	52-2	22666365	22573029	22293810	22511068	0.86	cps
Cobalt	59-2	85555	85592	84616	85254	0.65	cps
Copper	63-2	46941	47629	47161	47244	0.74	cps
Dysprosium	156-1	1467	1490	1433	1463	1.95	cps
Dysprosium	156-2	577	517	553	549	5.51	cps
Erbium	164-1	1323	1460	1590	1458	9.15	cps
Erbium	164-2	497	493	507	499	1.39	cps
Gadolinium	160-1	1697	1690	1560	1649	4.67	cps
Gadolinium	160-2	697	697	653	682	3.67	cps
Holmium	165-1	16999814	17633517	17664519	17432617	2.15	cps
Holmium	165-2	5695776	5761332	5763031	5740046	0.67	cps
Indium	115-1	12908147	13467766	13432682	13269532	2.36	cps
Indium	115-2	1306258	1314970	1317209	1312812	0.44	cps
Iron	54-2	770800	773148	773819	772589	0.21	cps
Iron	56-2	711188	717343	713578	714036	0.43	cps
Iron	57-2	17961	18072	17674	17902	1.15	cps
Krypton	83-1	150	183	143	159	13.49	cps
Lead	206-1	3044	3194	3070	3103	2.58	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2554	2764	2567	2628	4.48	cps
Lead	208-1	12079	12172	12022	12091	0.63	cps
Lithium	6-1	7336179	7427743	7531170	7431698	1.31	cps
Magnesium	24-2	5715785	5768267	5791895	5758649	0.68	cps
Manganese	55-2	592456	596540	597358	595451	0.44	cps
Molybdenum	94-1	1243	1213	1230	1229	1.22	cps
Molybdenum	95-1	1710	1593	1700	1668	3.88	cps
Molybdenum	96-1	1647	1793	1727	1722	4.26	cps
Molybdenum	97-1	903	1080	1023	1002	9.00	cps
Molybdenum	98-1	2557	2474	2510	2514	1.66	cps
Neodymium	150-1	1200	1217	1167	1195	2.13	cps
Neodymium	150-2	193	240	290	241	20.05	cps
Nickel	60-2	344711	341865	342913	343163	0.42	cps
Phosphorus	31-2	417	413	407	412	1.23	cps
Potassium	39-2	225704	225346	223361	224804	0.56	cps
Rhodium	103-1	11377669	11881871	11954271	11737937	2.68	cps
Rhodium	103-2	4526978	4507847	4556768	4530531	0.54	cps
Scandium	45-1	9225886	9494075	9400295	9373418	1.45	cps
Scandium	45-2	175436	175736	176327	175833	0.26	cps
Selenium	82-1	227	197	297	240	21.38	cps
Selenium	77-2	10	0	7	6	91.64	cps
Selenium	78-2	13	13	3	10	57.75	cps
Silicon	28-1	155491891	156165814	159692828	157116844	1.44	cps
Silver	107-1	967	800	750	839	13.52	cps
Silver	109-1	797	787	620	734	13.51	cps
Sodium	23-2	11452866	11419757	11461026	11444550	0.19	cps
Strontium	86-1	855879	864975	874370	865075	1.07	cps
Strontium	88-1	7577038	7558165	7678850	7604684	0.85	cps
Sulfur	34-1	1014227	1010052	1023031	1015770	0.65	cps
Terbium	159-1	17361837	17871341	18317908	17850362	2.68	cps
Terbium	159-2	5565921	5601013	5691015	5619317	1.15	cps
Thallium	203-1	810	690	670	723	10.47	cps
Thallium	205-1	1763	1810	1897	1823	3.71	cps
Tin	118-1	4834	4941	4908	4894	1.12	cps
Titanium	47-1	3694	3544	3314	3517	5.45	cps
Uranium	238-1	63698	63823	65293	64271	1.38	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-01	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:43:37	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1290	1280	1240	1270	2.08	cps
Ytterbium	172-1	480	457	467	468	2.50	cps
Ytterbium	172-2	177	177	207	187	9.28	cps
Ytterbium	176-1	2414	2550	2617	2527	4.10	cps
Ytterbium	176-2	410	437	480	442	7.99	cps
Yttrium	89-1	23884751	24164335	24830209	24293098	2.00	cps
Yttrium	89-2	1719005	1726093	1737239	1727446	0.53	cps
Zinc	66-2	9643	9940	9683	9756	1.65	cps
Zirconium	90-1	1237	1053	1343	1211	12.11	cps
Zirconium	91-1	353	220	280	284	23.48	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	217	210	227	218	3.85	cps
Antimony	121-1	287	253	367	302	19.27	cps
Arsenic	75-2	43	33	40	39	13.09	cps
Barium	135-1	1130444	1150883	1141172	1140833	0.90	cps
Barium	137-1	2001982	2017021	2015782	2011595	0.41	cps
Beryllium	9-1	614	604	624	614	1.63	cps
Bismuth	209-1	10901241	11273761	11158175	11111059	1.72	cps
Bismuth	209-2	3921896	4238520	4077123	4079180	3.88	cps
Bromine	81-1	68607	80258	86659	78508	11.66	cps
Cadmium	108-1	27	27	27	27	0.00	cps
Cadmium	106-1	7912	8349	8072	8111	2.73	cps
Cadmium	111-1	1700	1765	1742	1736	1.87	cps
Calcium	43-1	3814615	3761898	3861967	3812827	1.31	cps
Calcium	44-1	62089434	61564611	61937839	61863961	0.44	cps
Carbon	12-1	8815140	10137828	10650268	9867745	9.60	cps
Carbon	12-2	79708	79942	79614	79755	0.21	cps
Chlorine	35-1	10103712	11003548	11524259	10877173	6.61	cps
Chlorine	35-2	47387	48989	49314	48563	2.12	cps
Chromium	52-2	76761	75906	76366	76344	0.56	cps
Cobalt	59-2	10664	10604	10684	10651	0.39	cps
Copper	63-2	7272	7249	7415	7312	1.23	cps
Dysprosium	156-1	23	40	33	32	26.04	cps
Dysprosium	156-2	7	3	13	8	65.47	cps
Erbium	164-1	87	117	60	88	32.30	cps
Erbium	164-2	30	23	37	30	22.23	cps
Gadolinium	160-1	93	77	73	81	13.21	cps
Gadolinium	160-2	10	13	30	18	60.28	cps
Holmium	165-1	17684961	18715977	18204959	18201966	2.83	cps
Holmium	165-2	5518689	5964446	5800769	5761301	3.91	cps
Indium	115-1	13530582	14337389	14082622	13983531	2.95	cps
Indium	115-2	1289089	1394578	1339988	1341218	3.93	cps
Iron	54-2	3140	3164	3360	3222	3.75	cps
Iron	56-2	11104	10944	11225	11091	1.27	cps
Iron	57-2	323	393	433	383	14.52	cps
Krypton	83-1	190	140	170	167	15.10	cps
Lead	206-1	2317	2307	2370	2331	1.46	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2137	1957	1887	1994	6.47	cps
Lead	208-1	9338	9051	8938	9109	2.26	cps
Lithium	6-1	7538787	7843829	7870654	7751090	2.38	cps
Magnesium	24-2	5720412	5804448	5712485	5745782	0.89	cps
Manganese	55-2	183021	180516	179540	181026	0.99	cps
Molybdenum	94-1	520	503	523	516	2.08	cps
Molybdenum	95-1	430	377	397	401	6.72	cps
Molybdenum	96-1	300	350	410	353	15.59	cps
Molybdenum	97-1	187	167	177	177	5.66	cps
Molybdenum	98-1	433	447	407	429	4.75	cps
Neodymium	150-1	160	160	143	154	6.23	cps
Neodymium	150-2	0	3	10	4	114.60	cps
Nickel	60-2	93994	92944	91733	92891	1.22	cps
Phosphorus	31-2	177	147	100	141	27.38	cps
Potassium	39-2	216297	215641	216831	216256	0.28	cps
Rhodium	103-1	12176446	12766482	12563095	12502007	2.40	cps
Rhodium	103-2	4431255	4661942	4547894	4547030	2.54	cps
Scandium	45-1	9704568	10146633	10198589	10016597	2.71	cps
Scandium	45-2	174829	187086	181331	181082	3.39	cps
Selenium	82-1	183	340	253	259	30.31	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	30	23	3	19	73.49	cps
Silicon	28-1	156383764	156396968	156456471	156412401	0.02	cps
Silver	107-1	347	373	380	367	4.81	cps
Silver	109-1	210	263	300	258	17.56	cps
Sodium	23-2	11315192	11390064	11489849	11398369	0.77	cps
Strontium	86-1	886807	898748	904532	896695	1.01	cps
Strontium	88-1	7779109	7795663	7941897	7838890	1.14	cps
Sulfur	34-1	956621	955009	977117	962915	1.28	cps
Terbium	159-1	18268279	18929008	19050386	18749224	2.24	cps
Terbium	159-2	5556268	5922754	5696982	5725335	3.23	cps
Thallium	203-1	767	707	703	726	4.91	cps
Thallium	205-1	1777	1904	1830	1837	3.46	cps
Tin	118-1	2927	2967	2814	2903	2.74	cps
Titanium	47-1	2804	2954	3060	2939	4.39	cps
Uranium	238-1	250	290	287	276	8.05	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-02	Instrumnet Name :	P8
Client Sample ID :	MC0BA0	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:46:52	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	23	33	21	63.80	cps
Ytterbium	172-1	130	77	117	108	25.75	cps
Ytterbium	172-2	47	53	30	43	27.73	cps
Ytterbium	176-1	2460	2417	2607	2495	3.99	cps
Ytterbium	176-2	263	310	307	293	8.88	cps
Yttrium	89-1	24926012	26138535	26023619	25696055	2.60	cps
Yttrium	89-2	1700826	1820000	1793097	1771308	3.53	cps
Zinc	66-2	2360	2374	2410	2381	1.09	cps
Zirconium	90-1	917	1160	990	1022	12.21	cps
Zirconium	91-1	177	187	230	198	14.33	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	257	250	243	250	2.67	cps
Antimony	121-1	617	513	550	560	9.36	cps
Arsenic	75-2	40	50	50	47	12.37	cps
Barium	135-1	696850	697476	700463	698263	0.28	cps
Barium	137-1	1194850	1220326	1232337	1215838	1.57	cps
Beryllium	9-1	554	549	491	531	6.54	cps
Bismuth	209-1	10210280	10605120	11075931	10630444	4.08	cps
Bismuth	209-2	4095415	4163735	4064528	4107893	1.24	cps
Bromine	81-1	68239	84033	90855	81042	14.31	cps
Cadmium	108-1	17	40	33	30	40.05	cps
Cadmium	106-1	7502	7555	7936	7664	3.08	cps
Cadmium	111-1	1552	1576	1654	1594	3.33	cps
Calcium	43-1	3871787	3811681	3933373	3872281	1.57	cps
Calcium	44-1	62828074	62603082	63654147	63028435	0.88	cps
Carbon	12-1	8757629	9816644	10310417	9628230	8.24	cps
Carbon	12-2	76303	77251	77144	76900	0.68	cps
Chlorine	35-1	10765007	11611966	12161383	11512785	6.11	cps
Chlorine	35-2	50404	50996	51334	50911	0.92	cps
Chromium	52-2	77032	77103	76697	76944	0.28	cps
Cobalt	59-2	8613	8516	8513	8547	0.66	cps
Copper	63-2	81029	81133	80499	80887	0.42	cps
Dysprosium	156-1	33	27	30	30	11.10	cps
Dysprosium	156-2	7	3	3	4	43.40	cps
Erbium	164-1	60	93	130	94	37.07	cps
Erbium	164-2	17	47	37	33	45.82	cps
Gadolinium	160-1	103	93	67	88	21.59	cps
Gadolinium	160-2	33	33	10	26	52.71	cps
Holmium	165-1	16445324	18050519	18155481	17550441	5.46	cps
Holmium	165-2	5812572	5971206	5916622	5900133	1.37	cps
Indium	115-1	12738784	13586209	13826604	13383866	4.27	cps
Indium	115-2	1332074	1348382	1340823	1340426	0.61	cps
Iron	54-2	3347	3287	3104	3246	3.91	cps
Iron	56-2	13169	13266	13376	13271	0.78	cps
Iron	57-2	453	423	483	453	6.62	cps
Krypton	83-1	243	153	210	202	22.50	cps
Lead	206-1	329009	335994	341109	335370	1.81	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	274746	280401	284262	279803	1.71	cps
Lead	208-1	1288537	1302209	1322949	1304565	1.33	cps
Lithium	6-1	7198719	7768218	7738034	7568324	4.23	cps
Magnesium	24-2	5857108	5706686	5790977	5784924	1.30	cps
Manganese	55-2	51372	51228	51703	51434	0.47	cps
Molybdenum	94-1	460	443	493	466	5.47	cps
Molybdenum	95-1	390	393	357	380	5.34	cps
Molybdenum	96-1	383	327	373	361	8.38	cps
Molybdenum	97-1	153	167	147	156	6.55	cps
Molybdenum	98-1	363	400	473	412	13.59	cps
Neodymium	150-1	70	80	83	78	8.92	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	114499	114757	113619	114292	0.52	cps
Phosphorus	31-2	133	177	133	148	16.93	cps
Potassium	39-2	226831	225691	224455	225659	0.53	cps
Rhodium	103-1	11290305	12229382	12459672	11993120	5.17	cps
Rhodium	103-2	4573168	4586242	4570945	4576785	0.18	cps
Scandium	45-1	9062802	9709101	9836747	9536216	4.35	cps
Scandium	45-2	182229	182189	180804	181741	0.45	cps
Selenium	82-1	150	270	167	196	33.24	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	20	13	23	19	26.96	cps
Silicon	28-1	156891754	155883591	157933208	156902851	0.65	cps
Silver	107-1	263	343	313	307	13.18	cps
Silver	109-1	203	220	197	207	5.81	cps
Sodium	23-2	11518384	11504080	11375701	11466055	0.69	cps
Strontium	86-1	949618	962531	963176	958442	0.80	cps
Strontium	88-1	8416310	8341015	8350661	8369328	0.49	cps
Sulfur	34-1	956523	962744	962217	960495	0.36	cps
Terbium	159-1	16923575	18105268	18503475	17844106	4.60	cps
Terbium	159-2	5679263	5739392	5736363	5718339	0.59	cps
Thallium	203-1	967	893	827	896	7.82	cps
Thallium	205-1	2027	2067	2100	2065	1.78	cps
Tin	118-1	12993	13050	12973	13005	0.31	cps
Titanium	47-1	2880	2910	2800	2864	1.99	cps
Uranium	238-1	553	400	423	459	18.00	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-03	Instrumnet Name :	P8
Client Sample ID :	MC0BA1	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:50:10	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	20	33	27	24.99	cps
Ytterbium	172-1	120	117	70	102	27.35	cps
Ytterbium	172-2	27	50	23	33	43.59	cps
Ytterbium	176-1	2244	2267	2260	2257	0.53	cps
Ytterbium	176-2	290	337	327	318	7.73	cps
Yttrium	89-1	23228301	25068525	25266679	24521168	4.58	cps
Yttrium	89-2	1741044	1798078	1764450	1767857	1.62	cps
Zinc	66-2	10000	9920	9627	9849	2.00	cps
Zirconium	90-1	997	1030	1097	1041	4.89	cps
Zirconium	91-1	167	190	273	210	26.70	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	710	770	797	759	5.85	cps
Antimony	121-1	727	697	787	737	6.22	cps
Arsenic	75-2	47	53	50	50	6.66	cps
Barium	135-1	648990	663570	668139	660233	1.51	cps
Barium	137-1	1145735	1148217	1172265	1155406	1.27	cps
Beryllium	9-1	461	444	427	444	3.80	cps
Bismuth	209-1	10669715	10869071	10893560	10810782	1.14	cps
Bismuth	209-2	3947501	3952271	4083825	3994532	1.94	cps
Bromine	81-1	64247	75756	81857	73953	12.09	cps
Cadmium	108-1	13	27	37	26	45.82	cps
Cadmium	106-1	7515	7759	7422	7565	2.30	cps
Cadmium	111-1	1524	1560	1472	1519	2.90	cps
Calcium	43-1	3659678	3741407	3716543	3705876	1.13	cps
Calcium	44-1	60143952	60841344	60388901	60458066	0.59	cps
Carbon	12-1	8098775	9150365	9742631	8997257	9.25	cps
Carbon	12-2	72417	73238	73197	72951	0.63	cps
Chlorine	35-1	10769618	11503434	11844879	11372644	4.83	cps
Chlorine	35-2	49377	48906	50177	49487	1.30	cps
Chromium	52-2	467158	467856	467199	467404	0.08	cps
Cobalt	59-2	3404	3407	3594	3468	3.14	cps
Copper	63-2	3891	3907	3871	3889	0.47	cps
Dysprosium	156-1	27	27	13	22	34.66	cps
Dysprosium	156-2	10	3	3	6	69.34	cps
Erbium	164-1	63	110	87	87	26.93	cps
Erbium	164-2	37	33	27	32	15.80	cps
Gadolinium	160-1	83	103	80	89	14.20	cps
Gadolinium	160-2	17	13	20	17	20.01	cps
Holmium	165-1	17671131	17789776	17569291	17676733	0.62	cps
Holmium	165-2	5687187	5641082	5829178	5719149	1.71	cps
Indium	115-1	13102073	13497342	13553808	13384408	1.84	cps
Indium	115-2	1301678	1283477	1347308	1310821	2.51	cps
Iron	54-2	16246	15909	16303	16153	1.32	cps
Iron	56-2	9847	9860	9994	9900	0.82	cps
Iron	57-2	413	363	410	396	7.07	cps
Krypton	83-1	187	183	167	179	5.99	cps
Lead	206-1	1830	1954	1810	1865	4.16	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1613	1460	1637	1570	6.11	cps
Lead	208-1	7451	7067	7218	7245	2.67	cps
Lithium	6-1	7602212	7553592	7637529	7597777	0.55	cps
Magnesium	24-2	5684740	5682943	5584378	5650687	1.02	cps
Manganese	55-2	48883	47482	48345	48237	1.47	cps
Molybdenum	94-1	787	723	733	748	4.55	cps
Molybdenum	95-1	697	790	820	769	8.37	cps
Molybdenum	96-1	940	810	800	850	9.19	cps
Molybdenum	97-1	453	427	533	471	11.78	cps
Molybdenum	98-1	1093	1243	1173	1170	6.42	cps
Neodymium	150-1	70	63	73	69	7.39	cps
Neodymium	150-2	10	13	3	9	57.30	cps
Nickel	60-2	34351	34064	35003	34473	1.40	cps
Phosphorus	31-2	203	153	163	173	15.26	cps
Potassium	39-2	220421	216990	217534	218315	0.84	cps
Rhodium	103-1	11868610	11936858	12237411	12014293	1.63	cps
Rhodium	103-2	4384313	4420683	4539475	4448157	1.82	cps
Scandium	45-1	9531309	9642717	9685747	9619924	0.83	cps
Scandium	45-2	174533	170006	181616	175385	3.34	cps
Selenium	82-1	167	180	200	182	9.21	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	20	0	12	87.67	cps
Silicon	28-1	148272501	148448641	150871204	149197449	0.97	cps
Silver	107-1	240	253	297	263	11.25	cps
Silver	109-1	177	147	183	169	11.57	cps
Sodium	23-2	11530912	11643311	11449945	11541389	0.84	cps
Strontium	86-1	968576	980852	982937	977455	0.79	cps
Strontium	88-1	8477019	8622703	8571521	8557081	0.86	cps
Sulfur	34-1	940143	942661	922568	935124	1.17	cps
Terbium	159-1	18074551	17949093	17955748	17993131	0.39	cps
Terbium	159-2	5654208	5458054	5807313	5639858	3.10	cps
Thallium	203-1	1000	873	947	940	6.77	cps
Thallium	205-1	2137	2017	2104	2086	2.97	cps
Tin	118-1	2454	2704	2454	2537	5.69	cps
Titanium	47-1	2764	2854	2820	2813	1.62	cps
Uranium	238-1	1197	1243	1143	1195	4.19	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04	Instrumnet Name :	P8
Client Sample ID :	MC0BA2	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:53:26	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	707	687	737	710	3.54	cps
Ytterbium	172-1	103	133	120	119	12.65	cps
Ytterbium	172-2	50	23	37	37	36.37	cps
Ytterbium	176-1	2134	2327	2097	2186	5.65	cps
Ytterbium	176-2	310	357	287	318	11.22	cps
Yttrium	89-1	24629768	24938610	25014119	24860832	0.82	cps
Yttrium	89-2	1713268	1705390	1764251	1727636	1.85	cps
Zinc	66-2	507	497	480	494	2.72	cps
Zirconium	90-1	1060	1093	1143	1099	3.82	cps
Zirconium	91-1	230	210	293	244	17.80	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	717	797	720	744	6.08	cps
Antimony	121-1	723	703	793	740	6.39	cps
Arsenic	75-2	117	83	87	96	19.21	cps
Barium	135-1	653839	667362	670648	663950	1.34	cps
Barium	137-1	1149305	1166269	1177907	1164494	1.24	cps
Beryllium	9-1	410	422	379	404	5.58	cps
Bismuth	209-1	10269285	10802912	10838600	10636933	3.00	cps
Bismuth	209-2	4041110	3991083	4045289	4025827	0.75	cps
Bromine	81-1	62442	75073	80546	72687	12.77	cps
Cadmium	108-1	17	13	10	13	25.01	cps
Cadmium	106-1	7129	7342	7102	7191	1.83	cps
Cadmium	111-1	1457	1476	1457	1463	0.74	cps
Calcium	43-1	3669372	3766564	3746715	3727550	1.38	cps
Calcium	44-1	59427411	60501857	60508836	60146035	1.03	cps
Carbon	12-1	8076260	9015926	9525541	8872576	8.29	cps
Carbon	12-2	71275	73033	73398	72569	1.56	cps
Chlorine	35-1	10859968	11581229	12081779	11507658	5.34	cps
Chlorine	35-2	49859	49896	50474	50076	0.69	cps
Chromium	52-2	464619	466385	466515	465840	0.23	cps
Cobalt	59-2	3327	3097	3547	3324	6.77	cps
Copper	63-2	4101	3797	4107	4002	4.43	cps
Dysprosium	156-1	20	13	37	23	51.52	cps
Dysprosium	156-2	0	10	0	3	173.21	cps
Erbium	164-1	117	103	83	101	16.60	cps
Erbium	164-2	37	27	33	32	15.80	cps
Gadolinium	160-1	123	113	97	111	12.12	cps
Gadolinium	160-2	13	13	30	19	50.96	cps
Holmium	165-1	17093462	17570723	17945631	17536605	2.44	cps
Holmium	165-2	5714303	5696533	5744947	5718595	0.43	cps
Indium	115-1	12889409	13347872	13668093	13301792	2.94	cps
Indium	115-2	1307212	1302966	1321715	1310631	0.75	cps
Iron	54-2	16186	15932	16396	16171	1.44	cps
Iron	56-2	8623	9063	9180	8955	3.28	cps
Iron	57-2	437	393	380	403	7.35	cps
Krypton	83-1	177	170	183	177	3.78	cps
Lead	206-1	1713	1667	1770	1717	3.01	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1537	1513	1453	1501	2.86	cps
Lead	208-1	6867	6777	6901	6849	0.93	cps
Lithium	6-1	7196413	7523439	7721372	7480408	3.54	cps
Magnesium	24-2	5735373	5599199	5665457	5666677	1.20	cps
Manganese	55-2	48582	47716	49141	48480	1.48	cps
Molybdenum	94-1	780	817	783	793	2.56	cps
Molybdenum	95-1	760	730	827	772	6.41	cps
Molybdenum	96-1	767	830	850	816	5.34	cps
Molybdenum	97-1	470	467	453	463	1.90	cps
Molybdenum	98-1	1087	1253	1127	1156	7.53	cps
Neodymium	150-1	67	70	107	81	27.36	cps
Neodymium	150-2	7	0	10	6	91.64	cps
Nickel	60-2	34819	34315	34124	34419	1.04	cps
Phosphorus	31-2	123	177	153	151	17.70	cps
Potassium	39-2	217576	219673	221260	219503	0.84	cps
Rhodium	103-1	11473480	12133519	12207103	11938034	3.38	cps
Rhodium	103-2	4459330	4459750	4509808	4476296	0.65	cps
Scandium	45-1	9074437	9507618	9644906	9408987	3.16	cps
Scandium	45-2	176060	175170	178152	176461	0.87	cps
Selenium	82-1	217	227	220	221	2.31	cps
Selenium	77-2	7	0	10	6	91.64	cps
Selenium	78-2	10	20	10	13	43.30	cps
Silicon	28-1	147777074	147769461	148977818	148174784	0.47	cps
Silver	107-1	247	217	237	233	6.55	cps
Silver	109-1	170	157	163	163	4.08	cps
Sodium	23-2	11483814	11430609	11457260	11457227	0.23	cps
Strontium	86-1	970769	979054	987942	979255	0.88	cps
Strontium	88-1	8512848	8571188	8662936	8582324	0.88	cps
Sulfur	34-1	927675	929682	932224	929860	0.25	cps
Terbium	159-1	17032406	17921659	18144471	17699512	3.32	cps
Terbium	159-2	5614864	5665047	5566505	5615472	0.88	cps
Thallium	203-1	860	923	970	918	6.02	cps
Thallium	205-1	2114	1980	2087	2060	3.42	cps
Tin	118-1	2624	2427	2467	2506	4.15	cps
Titanium	47-1	2557	2720	2754	2677	3.93	cps
Uranium	238-1	1143	1123	1140	1136	0.94	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-05	Instrumnet Name :	P8
Client Sample ID :	MC0BA2D	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 17:56:43	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	660	660	690	670	2.59	cps
Ytterbium	172-1	123	107	93	108	13.95	cps
Ytterbium	172-2	17	13	23	18	28.64	cps
Ytterbium	176-1	2210	2234	2280	2241	1.59	cps
Ytterbium	176-2	343	317	280	313	10.15	cps
Yttrium	89-1	23798964	24383310	25087669	24423314	2.64	cps
Yttrium	89-2	1720257	1739874	1729685	1729939	0.57	cps
Zinc	66-2	450	457	483	463	3.81	cps
Zirconium	90-1	1093	1087	1150	1110	3.14	cps
Zirconium	91-1	213	247	203	221	10.26	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	303	277	190	257	23.09	cps
Antimony	121-1	183	193	240	206	14.71	cps
Arsenic	75-2	17	3	13	11	62.48	cps
Barium	135-1	136349	136214	137001	136521	0.31	cps
Barium	137-1	239376	240445	243253	241025	0.83	cps
Beryllium	9-1	401	377	355	378	6.12	cps
Bismuth	209-1	11197127	11141210	11041200	11126512	0.71	cps
Bismuth	209-2	4171718	4180017	3949669	4100468	3.19	cps
Bromine	81-1	29434	29882	30650	29989	2.05	cps
Cadmium	108-1	13	23	27	21	32.88	cps
Cadmium	106-1	7552	7732	7599	7628	1.23	cps
Cadmium	111-1	1531	1540	1508	1526	1.09	cps
Calcium	43-1	756070	760186	759010	758422	0.28	cps
Calcium	44-1	12383996	12423839	12290824	12366220	0.55	cps
Carbon	12-1	4865724	4837254	4843919	4848966	0.31	cps
Carbon	12-2	34403	34236	34948	34529	1.08	cps
Chlorine	35-1	2759656	2894952	2911662	2855423	2.92	cps
Chlorine	35-2	11538	11878	11782	11733	1.49	cps
Chromium	52-2	96358	97113	96305	96592	0.47	cps
Cobalt	59-2	773	727	747	749	3.13	cps
Copper	63-2	3807	3781	3707	3765	1.38	cps
Dysprosium	156-1	17	10	7	11	45.82	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	83	113	93	97	15.81	cps
Erbium	164-2	33	23	33	30	19.25	cps
Gadolinium	160-1	63	83	100	82	22.33	cps
Gadolinium	160-2	10	7	23	13	66.12	cps
Holmium	165-1	18056561	17532375	17620900	17736612	1.58	cps
Holmium	165-2	5912836	5747589	5432112	5697512	4.29	cps
Indium	115-1	13650210	13629062	13766281	13681851	0.54	cps
Indium	115-2	1361151	1358582	1266268	1328667	4.07	cps
Iron	54-2	3620	3617	3547	3595	1.15	cps
Iron	56-2	4838	4884	4557	4760	3.71	cps
Iron	57-2	123	137	110	123	10.81	cps
Krypton	83-1	177	183	163	174	5.84	cps
Lead	206-1	1560	1627	1510	1566	3.74	cps

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1467	1280	1287	1345	7.88	cps
Lead	208-1	6184	6064	5897	6048	2.38	cps
Lithium	6-1	7725932	7548636	7703489	7659352	1.26	cps
Magnesium	24-2	1202949	1179505	1187048	1189834	1.01	cps
Manganese	55-2	10160	10584	9843	10196	3.64	cps
Molybdenum	94-1	503	460	470	478	4.75	cps
Molybdenum	95-1	307	213	277	266	17.94	cps
Molybdenum	96-1	387	360	323	357	8.92	cps
Molybdenum	97-1	150	177	163	163	8.16	cps
Molybdenum	98-1	417	340	457	404	14.66	cps
Neodymium	150-1	40	33	23	32	26.04	cps
Neodymium	150-2	10	0	0	3	173.21	cps
Nickel	60-2	8102	8102	7836	8013	1.92	cps
Phosphorus	31-2	47	103	33	61	60.82	cps
Potassium	39-2	50588	52067	51224	51293	1.45	cps
Rhodium	103-1	12591110	12499314	12627154	12572526	0.52	cps
Rhodium	103-2	4712560	4642286	4350847	4568565	4.20	cps
Scandium	45-1	9746433	9659783	9705031	9703749	0.45	cps
Scandium	45-2	181126	178597	167638	175787	4.08	cps
Selenium	82-1	27	37	87	50	64.30	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	7	7	8	24.71	cps
Silicon	28-1	30826595	30649831	30514517	30663648	0.51	cps
Silver	107-1	173	227	213	204	13.58	cps
Silver	109-1	87	87	87	87	0.00	cps
Sodium	23-2	2377578	2375116	2388055	2380250	0.29	cps
Strontium	86-1	198586	200648	203178	200804	1.15	cps
Strontium	88-1	1779830	1821274	1759683	1786929	1.76	cps
Sulfur	34-1	536100	524602	522561	527754	1.38	cps
Terbium	159-1	18077344	17855783	18182077	18038401	0.92	cps
Terbium	159-2	5782623	5724063	5380443	5629043	3.86	cps
Thallium	203-1	593	637	633	621	3.88	cps
Thallium	205-1	1353	1410	1413	1392	2.42	cps
Tin	118-1	1613	4560	1567	2580	66.46	cps
Titanium	47-1	653	717	837	736	12.66	cps
Uranium	238-1	267	247	257	257	3.90	cps

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On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-04LX5	Instrumnet Name :	P8
Client Sample ID :	MC0BA2L	Dilution Factor :	5
Date & Time Acquired :	2025-01-17 17:59:59	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	123	143	167	144	15.01	cps
Ytterbium	172-1	117	117	87	107	16.24	cps
Ytterbium	172-2	10	40	23	24	61.49	cps
Ytterbium	176-1	2247	2190	2180	2206	1.63	cps
Ytterbium	176-2	240	343	283	289	17.96	cps
Yttrium	89-1	25095300	25225973	25297452	25206242	0.41	cps
Yttrium	89-2	1793689	1763747	1655200	1737545	4.19	cps
Zinc	66-2	437	423	407	422	3.56	cps
Zirconium	90-1	903	827	847	859	4.63	cps
Zirconium	91-1	210	203	217	210	3.17	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	136567	136490	138700	137252	0.91	cps
Antimony	121-1	1473944	1513730	1515944	1501206	1.57	cps
Arsenic	75-2	11164	10911	11748	11275	3.81	cps
Barium	135-1	8465057	8669711	8642103	8592290	1.29	cps
Barium	137-1	14617801	14875768	14580126	14691232	1.10	cps
Beryllium	9-1	275800	281002	279766	278856	0.97	cps
Bismuth	209-1	10867038	10812997	10701397	10793811	0.78	cps
Bismuth	209-2	4108996	4021754	4073063	4067938	1.08	cps
Bromine	81-1	56136	70335	77677	68049	16.09	cps
Cadmium	108-1	12849	13176	13073	13033	1.28	cps
Cadmium	106-1	24552	26362	25624	25513	3.57	cps
Cadmium	111-1	184014	188161	190269	187481	1.70	cps
Calcium	43-1	3634018	3781510	3694529	3703352	2.00	cps
Calcium	44-1	59161339	60426722	60578402	60055488	1.30	cps
Carbon	12-1	7107785	8212632	9145897	8155438	12.51	cps
Carbon	12-2	68385	68854	69674	68971	0.95	cps
Chlorine	35-1	43317408	46822739	48624236	46254794	5.83	cps
Chlorine	35-2	204221	206381	208844	206482	1.12	cps
Chromium	52-2	1136874	1133595	1140968	1137146	0.32	cps
Cobalt	59-2	3104594	3112109	3123689	3113464	0.31	cps
Copper	63-2	1187845	1194213	1193791	1191950	0.30	cps
Dysprosium	156-1	147	133	90	123	24.02	cps
Dysprosium	156-2	0	13	13	9	86.60	cps
Erbium	164-1	100	123	83	102	19.66	cps
Erbium	164-2	37	40	40	39	4.94	cps
Gadolinium	160-1	113	77	97	96	19.21	cps
Gadolinium	160-2	20	17	23	20	16.65	cps
Holmium	165-1	17803293	17708396	17930497	17814062	0.63	cps
Holmium	165-2	5769275	5820626	5810281	5800060	0.47	cps
Indium	115-1	13677059	13601225	13706950	13661745	0.40	cps
Indium	115-2	1346286	1349523	1366235	1354015	0.79	cps
Iron	54-2	177741	180281	178989	179004	0.71	cps
Iron	56-2	2682558	2632961	2678431	2664650	1.03	cps
Iron	57-2	65680	65938	65740	65786	0.20	cps
Krypton	83-1	183	187	190	187	1.78	cps
Lead	206-1	259214	263924	267215	263451	1.53	cps

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Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	225889	226258	230112	227420	1.03	cps
Lead	208-1	1032777	1049705	1059364	1047282	1.29	cps
Lithium	6-1	7639803	7620345	7619719	7626622	0.15	cps
Magnesium	24-2	5679808	5684115	5653440	5672454	0.29	cps
Manganese	55-2	770117	764549	767357	767341	0.36	cps
Molybdenum	94-1	1150	1040	1220	1137	7.98	cps
Molybdenum	95-1	1240	1420	1470	1377	8.79	cps
Molybdenum	96-1	1527	1573	1497	1532	2.52	cps
Molybdenum	97-1	750	803	743	766	4.30	cps
Molybdenum	98-1	1953	2137	2040	2044	4.49	cps
Neodymium	150-1	760	680	807	749	8.55	cps
Neodymium	150-2	23	37	17	26	39.85	cps
Nickel	60-2	869136	872557	873321	871671	0.26	cps
Phosphorus	31-2	150	140	177	156	12.19	cps
Potassium	39-2	219338	219314	224756	221136	1.42	cps
Rhodium	103-1	12158076	12120885	12279486	12186149	0.68	cps
Rhodium	103-2	4570385	4591266	4611481	4591044	0.45	cps
Scandium	45-1	9737549	9752566	9930119	9806745	1.09	cps
Scandium	45-2	179397	179505	180539	179814	0.35	cps
Selenium	82-1	24201	24756	24983	24647	1.63	cps
Selenium	77-2	450	357	420	409	11.65	cps
Selenium	78-2	1450	1430	1323	1401	4.86	cps
Silicon	28-1	145971888	147112488	148199821	147094732	0.76	cps
Silver	107-1	974456	997040	1011201	994232	1.86	cps
Silver	109-1	932747	954691	966049	951162	1.78	cps
Sodium	23-2	11515064	11515040	11531963	11520689	0.08	cps
Strontium	86-1	961652	983804	988280	977912	1.46	cps
Strontium	88-1	8494675	8655694	8719875	8623415	1.35	cps
Sulfur	34-1	920508	924840	929759	925036	0.50	cps
Terbium	159-1	18420846	18304489	18728082	18484472	1.18	cps
Terbium	159-2	5678624	5674263	5713260	5688716	0.38	cps
Thallium	203-1	808890	814335	821675	814967	0.79	cps
Thallium	205-1	1962608	1998769	1936617	1965998	1.59	cps
Tin	118-1	4838	4951	4961	4916	1.39	cps
Titanium	47-1	3000	2940	3030	2990	1.53	cps
Uranium	238-1	1183	1243	1180	1202	2.96	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-06	Instrumnet Name :	P8
Client Sample ID :	MC0BA2S	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:03:18	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1276295	1286285	1284251	1282277	0.41	cps
Ytterbium	172-1	133	130	160	141	11.65	cps
Ytterbium	172-2	40	33	20	31	32.73	cps
Ytterbium	176-1	2127	2314	2294	2245	4.57	cps
Ytterbium	176-2	303	277	277	286	5.39	cps
Yttrium	89-1	25237550	25194608	25387680	25273279	0.40	cps
Yttrium	89-2	1760320	1783519	1764819	1769553	0.70	cps
Zinc	66-2	242874	241687	244478	243013	0.58	cps
Zirconium	90-1	1297	1353	1290	1313	2.65	cps
Zirconium	91-1	353	373	383	370	4.13	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	950	817	830	866	8.48	cps
Antimony	121-1	3244	3490	3484	3406	4.13	cps
Arsenic	75-2	63	90	77	77	17.39	cps
Barium	135-1	677189	687303	695785	686759	1.36	cps
Barium	137-1	1181183	1203172	1213910	1199422	1.39	cps
Beryllium	9-1	455	470	466	464	1.68	cps
Bismuth	209-1	10914590	11004672	11137437	11018900	1.02	cps
Bismuth	209-2	4059284	4106808	4086663	4084252	0.58	cps
Bromine	81-1	61471	72107	77851	70476	11.79	cps
Cadmium	108-1	43	43	27	38	25.46	cps
Cadmium	106-1	8129	7842	7929	7967	1.85	cps
Cadmium	111-1	1782	1641	1744	1722	4.22	cps
Calcium	43-1	3799235	3942215	3921095	3887515	1.99	cps
Calcium	44-1	61311656	62913019	63533332	62586002	1.83	cps
Carbon	12-1	8274684	9361285	9996906	9210959	9.46	cps
Carbon	12-2	75037	75217	75509	75254	0.32	cps
Chlorine	35-1	176169191	190940577	196325230	187811666	5.56	cps
Chlorine	35-2	840231	841882	843320	841811	0.18	cps
Chromium	52-2	491866	501204	494358	495809	0.98	cps
Cobalt	59-2	3500	3634	3787	3641	3.94	cps
Copper	63-2	14004	15735	15455	15065	6.17	cps
Dysprosium	156-1	20	30	37	29	29.04	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	117	110	53	93	37.29	cps
Erbium	164-2	37	37	33	36	5.42	cps
Gadolinium	160-1	70	117	73	87	30.04	cps
Gadolinium	160-2	23	23	37	28	27.73	cps
Holmium	165-1	18020656	18028682	18303732	18117690	0.89	cps
Holmium	165-2	5845599	5830619	5839153	5838457	0.13	cps
Indium	115-1	13786280	13580317	14008260	13791619	1.55	cps
Indium	115-2	1357234	1353864	1355326	1355475	0.12	cps
Iron	54-2	17104	17551	17464	17373	1.37	cps
Iron	56-2	11468	11915	12075	11819	2.66	cps
Iron	57-2	473	457	353	428	15.20	cps
Krypton	83-1	203	173	203	193	8.96	cps
Lead	206-1	6595	7396	7395	7129	6.48	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5628	6355	6418	6134	7.16	cps
Lead	208-1	25700	29317	29427	28148	7.53	cps
Lithium	6-1	7803400	7898605	7932858	7878288	0.85	cps
Magnesium	24-2	6032969	6028151	5994034	6018385	0.35	cps
Manganese	55-2	57569	58245	57944	57919	0.58	cps
Molybdenum	94-1	850	827	893	857	3.95	cps
Molybdenum	95-1	973	1003	1063	1013	4.52	cps
Molybdenum	96-1	1080	1093	1000	1058	4.77	cps
Molybdenum	97-1	613	510	630	584	11.12	cps
Molybdenum	98-1	1573	1537	1627	1579	2.87	cps
Neodymium	150-1	270	340	233	281	19.28	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	36427	36229	37001	36552	1.10	cps
Phosphorus	31-2	160	203	190	184	12.03	cps
Potassium	39-2	236693	238364	236586	237214	0.42	cps
Rhodium	103-1	12241304	12489008	12552476	12427596	1.32	cps
Rhodium	103-2	4682560	4639731	4683033	4668441	0.53	cps
Scandium	45-1	9698420	9928112	10116570	9914368	2.11	cps
Scandium	45-2	186294	187179	188917	187463	0.71	cps
Selenium	82-1	187	277	150	204	31.88	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	23	3	13	13	75.02	cps
Silicon	28-1	150774754	154708284	156130834	153871291	1.80	cps
Silver	107-1	4497	3664	3771	3977	11.41	cps
Silver	109-1	4044	3324	3397	3588	11.05	cps
Sodium	23-2	12179955	12430558	12259329	12289947	1.04	cps
Strontium	86-1	997133	1014770	1039382	1017095	2.09	cps
Strontium	88-1	8839692	8773142	8997991	8870275	1.30	cps
Sulfur	34-1	974327	1004309	1011263	996633	1.97	cps
Terbium	159-1	18058269	18370111	18439413	18289264	1.11	cps
Terbium	159-2	5738918	5672329	5770105	5727117	0.87	cps
Thallium	203-1	14028	16410	16067	15502	8.31	cps
Thallium	205-1	33320	39386	37825	36844	8.55	cps
Tin	118-1	6435	7205	7352	6997	7.04	cps
Titanium	47-1	2714	2830	2930	2825	3.84	cps
Uranium	238-1	1250	1287	1283	1273	1.59	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	Q1085-07	Instrumnet Name :	P8
Client Sample ID :	MC0BA4	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:06:28	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	930	740	837	836	11.37	cps
Ytterbium	172-1	257	280	293	277	6.71	cps
Ytterbium	172-2	23	37	83	48	65.94	cps
Ytterbium	176-1	2280	2337	2314	2310	1.23	cps
Ytterbium	176-2	243	363	313	307	19.66	cps
Yttrium	89-1	25116962	25431972	26144325	25564420	2.06	cps
Yttrium	89-2	1833055	1794978	1852849	1826961	1.61	cps
Zinc	66-2	850	957	930	912	6.09	cps
Zirconium	90-1	1093	1007	1070	1057	4.24	cps
Zirconium	91-1	260	197	193	217	17.34	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3120185	3133837	3167073	3140365	0.77	cps
Antimony	121-1	6757168	6826241	6765875	6783095	0.55	cps
Arsenic	75-2	123398	125539	125523	124820	0.99	cps
Barium	135-1	8675465	8830497	8821426	8775796	0.99	cps
Barium	137-1	15002025	15296992	15306690	15201902	1.14	cps
Beryllium	9-1	2555470	2554042	2485942	2531818	1.57	cps
Bismuth	209-1	9729718	9628340	9488791	9615616	1.26	cps
Bismuth	209-2	3585383	3520158	3488856	3531466	1.39	cps
Bromine	81-1	10371	10147	10384	10301	1.29	cps
Cadmium	108-1	139188	138497	139978	139221	0.53	cps
Cadmium	106-1	202455	202331	203636	202807	0.36	cps
Cadmium	111-1	1618300	1653118	1626651	1632690	1.11	cps
Calcium	43-1	12593578	12730203	12626697	12650159	0.56	cps
Calcium	44-1	206884384	205919804	204391870	205732019	0.61	cps
Carbon	12-1	4059431	4060265	4085523	4068406	0.36	cps
Carbon	12-2	33385	33658	33645	33563	0.46	cps
Chlorine	35-1	1420091	1358179	1298638	1358969	4.47	cps
Chlorine	35-2	5041	4634	4758	4811	4.34	cps
Chromium	52-2	1514884	1534210	1513565	1520886	0.76	cps
Cobalt	59-2	2704981	2678205	2731097	2704761	0.98	cps
Copper	63-2	19050559	19233316	19171059	19151645	0.49	cps
Dysprosium	156-1	337	427	500	421	19.43	cps
Dysprosium	156-2	100	100	110	103	5.59	cps
Erbium	164-1	447	470	520	479	7.82	cps
Erbium	164-2	130	137	113	127	9.49	cps
Gadolinium	160-1	383	327	407	372	11.05	cps
Gadolinium	160-2	143	127	157	142	10.57	cps
Holmium	165-1	17151793	16888056	16763479	16934443	1.17	cps
Holmium	165-2	5431041	5344889	5354273	5376734	0.88	cps
Indium	115-1	12266811	12080759	12100718	12149429	0.84	cps
Indium	115-2	1181678	1169966	1184175	1178606	0.64	cps
Iron	54-2	14886689	15009254	15239835	15045259	1.19	cps
Iron	56-2	278074409	277777323	276169863	277340531	0.37	cps
Iron	57-2	6958217	6946373	6956977	6953856	0.09	cps
Krypton	83-1	223	240	287	250	13.13	cps
Lead	206-1	28636440	28730082	28702736	28689753	0.17	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	24325826	24759579	24395210	24493539	0.95	cps
Lead	208-1	112820236	114104050	113733542	113552609	0.58	cps
Lithium	6-1	7077054	6953877	6825723	6952218	1.81	cps
Magnesium	24-2	53645073	53074758	53916944	53545591	0.80	cps
Manganese	55-2	6410615	6386064	6472483	6423054	0.69	cps
Molybdenum	94-1	24901161	25184070	25473156	25186129	1.14	cps
Molybdenum	95-1	36422677	36419196	36621571	36487815	0.32	cps
Molybdenum	96-1	40108299	39965910	39674164	39916124	0.55	cps
Molybdenum	97-1	22488688	22232410	22560034	22427044	0.77	cps
Molybdenum	98-1	59354517	59129352	60015892	59499921	0.77	cps
Neodymium	150-1	907	950	893	917	3.23	cps
Neodymium	150-2	60	73	73	69	11.17	cps
Nickel	60-2	702697	699791	709724	704071	0.73	cps
Phosphorus	31-2	27954	26915	27740	27536	1.99	cps
Potassium	39-2	15367800	15425450	15613990	15469080	0.83	cps
Rhodium	103-1	10820132	10390504	10629275	10613304	2.03	cps
Rhodium	103-2	3932320	3907414	3944292	3928009	0.48	cps
Scandium	45-1	8994622	8939634	8826037	8920097	0.96	cps
Scandium	45-2	167706	166013	168407	167375	0.74	cps
Selenium	82-1	108111	107520	108793	108141	0.59	cps
Selenium	77-2	1943	1903	1777	1875	4.64	cps
Selenium	78-2	6321	6148	6291	6254	1.48	cps
Silicon	28-1	20709357	20634566	20640286	20661403	0.20	cps
Silver	107-1	8613453	8673660	8523635	8603582	0.88	cps
Silver	109-1	8226295	8036668	8090238	8117733	1.20	cps
Sodium	23-2	106249998	106241522	106673728	106388416	0.23	cps
Strontium	86-1	2579792	2621577	2636507	2612625	1.13	cps
Strontium	88-1	22120047	22037744	21952686	22036826	0.38	cps
Sulfur	34-1	1051064	1057019	1050619	1052901	0.34	cps
Terbium	159-1	17333405	17038154	17044682	17138747	0.98	cps
Terbium	159-2	5303489	5236042	5273360	5270964	0.64	cps
Thallium	203-1	7405894	7424893	7401106	7410631	0.17	cps
Thallium	205-1	17539717	17509310	17309908	17452978	0.72	cps
Tin	118-1	5834135	5869416	5817151	5840234	0.46	cps
Titanium	47-1	11165271	11288971	11217872	11224038	0.55	cps
Uranium	238-1	24480966	25045095	24660012	24728691	1.17	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:13:37	DataFile Name :	073CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1156684	1158156	1159108	1157982	0.11	cps
Ytterbium	172-1	467	460	490	472	3.34	cps
Ytterbium	172-2	197	203	190	197	3.39	cps
Ytterbium	176-1	36594	36651	37069	36771	0.70	cps
Ytterbium	176-2	11782	11829	11792	11801	0.21	cps
Yttrium	89-1	23529644	23074144	23283925	23295904	0.98	cps
Yttrium	89-2	1621841	1625108	1640906	1629285	0.63	cps
Zinc	66-2	2051481	2064695	2038337	2051504	0.64	cps
Zirconium	90-1	12610881	12889760	12786969	12762537	1.11	cps
Zirconium	91-1	2921046	2877486	2876258	2891597	0.88	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	113	97	103	104	8.03	cps
Antimony	121-1	1583	1333	1073	1330	19.17	cps
Arsenic	75-2	0	7	17	8	107.84	cps
Barium	135-1	613	610	483	569	13.03	cps
Barium	137-1	837	947	837	873	7.27	cps
Beryllium	9-1	791	780	702	758	6.38	cps
Bismuth	209-1	11141054	11195348	10923307	11086570	1.30	cps
Bismuth	209-2	4195727	4137834	4083470	4139010	1.36	cps
Bromine	81-1	9156	9266	9146	9190	0.72	cps
Cadmium	108-1	27	47	23	32	39.17	cps
Cadmium	106-1	7549	7616	7629	7598	0.56	cps
Cadmium	111-1	1611	1620	1623	1618	0.38	cps
Calcium	43-1	967	1040	990	999	3.75	cps
Calcium	44-1	18178	19780	17925	18628	5.40	cps
Carbon	12-1	3045356	2984418	2947630	2992468	1.65	cps
Carbon	12-2	21105	20274	20321	20567	2.27	cps
Chlorine	35-1	885076	849892	819367	851445	3.86	cps
Chlorine	35-2	3227	2794	2904	2975	7.57	cps
Chromium	52-2	607	577	563	582	3.81	cps
Cobalt	59-2	130	137	160	142	11.08	cps
Copper	63-2	4274	4267	4404	4315	1.79	cps
Dysprosium	156-1	7	17	7	10	57.72	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	93	80	83	86	8.11	cps
Erbium	164-2	37	23	13	24	47.91	cps
Gadolinium	160-1	83	83	117	94	20.38	cps
Gadolinium	160-2	13	13	20	16	24.76	cps
Holmium	165-1	17410663	17368127	17349008	17375933	0.18	cps
Holmium	165-2	5611822	5727270	5673351	5670815	1.02	cps
Indium	115-1	13567698	13520449	13361023	13483057	0.80	cps
Indium	115-2	1312191	1306751	1307221	1308721	0.23	cps
Iron	54-2	587	630	590	602	4.00	cps
Iron	56-2	10160	10167	10297	10208	0.76	cps
Iron	57-2	240	297	220	252	15.77	cps
Krypton	83-1	173	170	173	172	1.12	cps
Lead	206-1	3180	3044	2777	3000	6.84	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2694	2720	2437	2617	5.98	cps
Lead	208-1	12459	12296	11205	11987	5.69	cps
Lithium	6-1	7536095	7531191	7532109	7533132	0.03	cps
Magnesium	24-2	1633	1490	1487	1537	5.45	cps
Manganese	55-2	347	320	300	322	7.26	cps
Molybdenum	94-1	1450	1430	1257	1379	7.71	cps
Molybdenum	95-1	1717	1690	1563	1657	4.95	cps
Molybdenum	96-1	2067	2077	1757	1967	9.25	cps
Molybdenum	97-1	1190	1043	877	1037	15.12	cps
Molybdenum	98-1	2717	2870	2390	2659	9.22	cps
Neodymium	150-1	33	23	10	22	52.68	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1180	1147	1083	1137	4.32	cps
Phosphorus	31-2	37	33	20	30	29.40	cps
Potassium	39-2	9430	8986	9433	9283	2.77	cps
Rhodium	103-1	12587113	12372238	12205573	12388308	1.54	cps
Rhodium	103-2	4609259	4582304	4550309	4580624	0.64	cps
Scandium	45-1	9438273	9382653	9464560	9428495	0.44	cps
Scandium	45-2	173436	172977	172480	172964	0.28	cps
Selenium	82-1	67	73	57	66	12.81	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	0	0	0	0.00	cps
Silicon	28-1	399766	398381	397079	398409	0.34	cps
Silver	107-1	1443	1277	1210	1310	9.18	cps
Silver	109-1	1260	1107	927	1098	15.20	cps
Sodium	23-2	35129	35480	34357	34989	1.64	cps
Strontium	86-1	417	390	427	411	4.61	cps
Strontium	88-1	913	953	893	920	3.32	cps
Sulfur	34-1	391053	390318	395506	392292	0.72	cps
Terbium	159-1	17775892	17848349	17762111	17795451	0.26	cps
Terbium	159-2	5614006	5604407	5526760	5581725	0.86	cps
Thallium	203-1	1427	1150	1167	1248	12.43	cps
Thallium	205-1	3100	2884	2674	2886	7.39	cps
Tin	118-1	1537	1483	1493	1505	1.88	cps
Titanium	47-1	447	497	427	457	7.90	cps
Uranium	238-1	807	833	723	788	7.28	cps

Reviewed By:Mohan
On:1/21/2025 12:39:29 PM
Inst Id :P8

LB Number :	LB134335	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-01-17 18:16:25	DataFile Name :	074CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43	20	53	39	43.98	cps
Ytterbium	172-1	110	127	100	112	12.01	cps
Ytterbium	172-2	10	33	37	27	54.49	cps
Ytterbium	176-1	2337	2197	2344	2292	3.61	cps
Ytterbium	176-2	333	277	333	314	10.40	cps
Yttrium	89-1	24806310	24497140	24444575	24582675	0.80	cps
Yttrium	89-2	1718846	1706125	1735712	1720228	0.86	cps
Zinc	66-2	410	403	463	426	7.73	cps
Zirconium	90-1	1490	1517	1307	1438	7.95	cps
Zirconium	91-1	350	300	263	304	14.29	cps

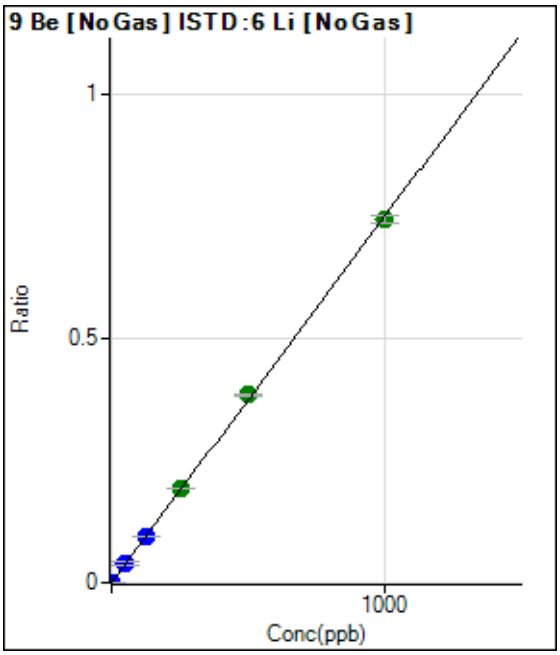
Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

Calibration for 015LLIC.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012025MS-02.b\
Analysis File: P8012025MS-02.batch.bin
DA Date-Time: 2025-01-20 13:54:07
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-20 13:16:54
2	006CALS.d	S02	2025-01-20 13:23:37
3	007CALB.d	S03	2025-01-20 13:26:58
4	008CALS.d	S04	2025-01-20 13:30:05
5	009CALS.d	S05	2025-01-20 13:33:02
6	010CALS.d	S06	2025-01-20 13:35:55
7	011CALS.d	S07	2025-01-20 13:38:40
8	012CALS.d	S08	2025-01-20 13:41:27

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	300.80	0.0000	P	1.3
2	☐	1.000	0.986	6172.62	0.0008	P	9.0
3	☐	50.000	51.924	280337.75	0.0389	P	19.6
4	☐	125.000	124.480	664482.27	0.0931	P	0.8
5	☐	250.000	257.183	1373427.65	0.1924	A	1.5
6	☐	500.000	513.722	2617752.37	0.3843	A	1.4
7	☐	1000.000	991.312	4919461.06	0.7415	A	2.2
8	☐			1228.24	0.0002	P	14.4

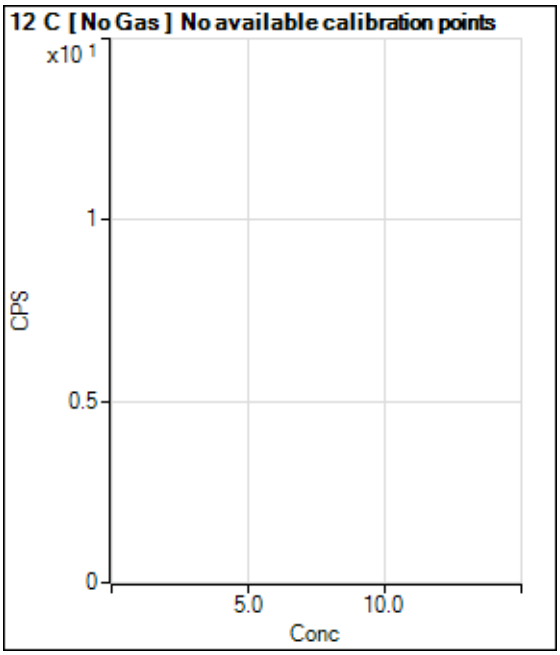
y = 7.4797E-004 * x + 4.0321E-005

R = 0.9998

DL = 0.002056

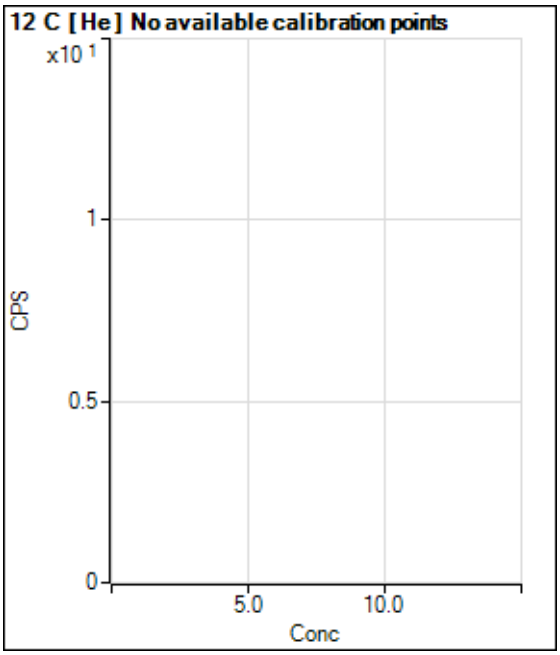
Weight: <None>

Min Conc: 0

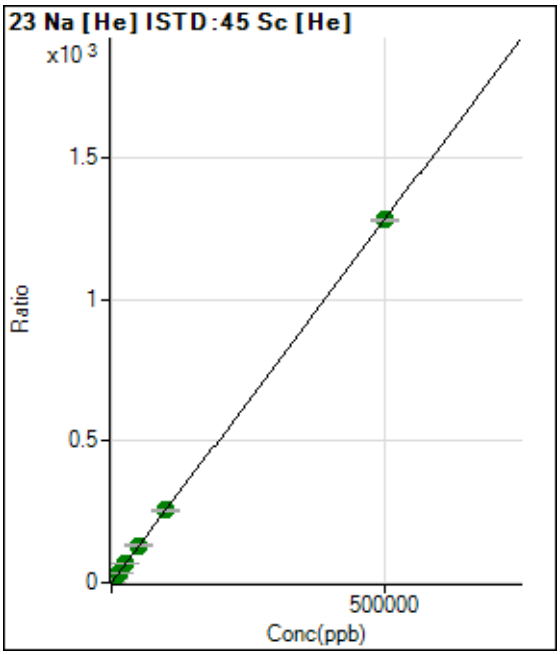


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2988767.87		A	0.7
2	☐			3413285.61		A	1.0
3	☐			3381751.13		A	2.8
4	☐			3362685.65		A	1.0
5	☐			3391706.51		A	0.9
6	☐			3595805.05		A	1.4
7	☐			4025413.31		A	2.6
8	☐			5689364.53		A	13.4

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			20349.72		P	0.2
2	☐			23176.11		P	0.3
3	☐			22688.68		P	0.6
4	☐			23052.53		P	0.1
5	☐			23863.86		P	0.1
6	☐			26215.62		P	1.5
7	☐			30190.99		P	0.5
8	☐			54903.15		P	0.5

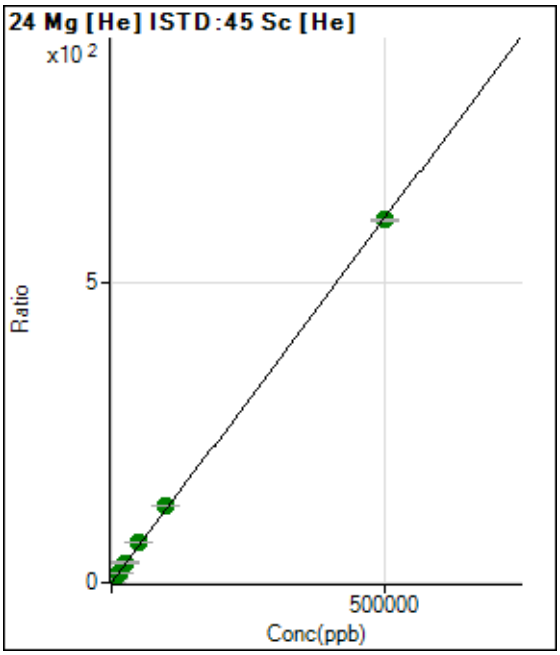


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19756.79	0.1115	P	1.1
2	☐	500.000	568.028	266513.12	1.5679	P	4.1
3	☐	5000.000	5125.352	2403126.88	13.2523	A	1.7
4	☐	12500.000	12823.617	5755021.44	32.9898	A	1.0
5	☐	25000.000	25658.172	11365147.33	65.8962	A	3.3
6	☐	50000.000	51196.294	22803129.94	131.3731	A	1.8
7	☐	100000.00	99385.558	44902612.66	254.9250	A	1.3
8	☐	500000.00	499960.93	193092612.6	1,281.955	A	0.4

y = 0.0026 * x + 0.1115
R = 1.0000
DL = 1.442

Weight: <None>
Min Conc: 0

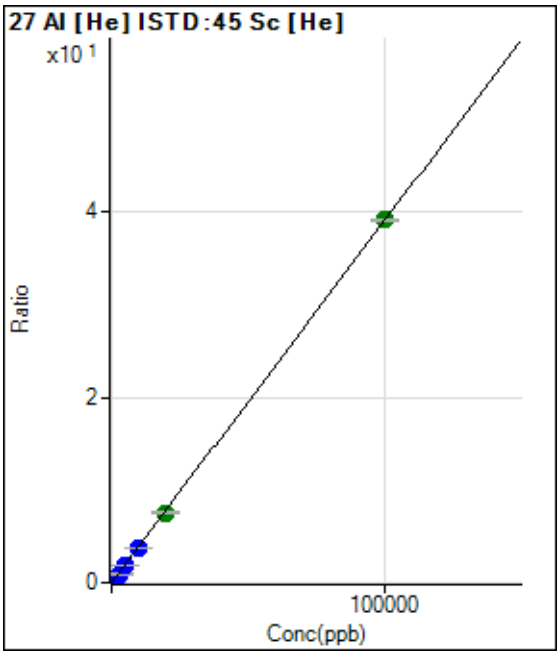
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	494.46	0.0028	P	27.0
2	☐	500.000	622.568	128868.04	0.7582	P	4.4
3	☐	5000.000	5536.159	1218508.36	6.7199	A	2.7
4	☐	12500.000	14095.477	2984043.39	17.1051	A	1.4
5	☐	25000.000	27685.849	5794146.51	33.5946	A	3.3
6	☐	50000.000	55084.747	11602091.08	66.8383	A	0.1
7	☐	100000.00	106241.77	22706176.33	128.9082	A	0.7
8	☐	500000.00	498063.50	91024075.31	604.3137	A	0.3

y = 0.0012 * x + 0.0028
R = 0.9999
DL = 1.866

Weight: <None>
Min Conc: 0

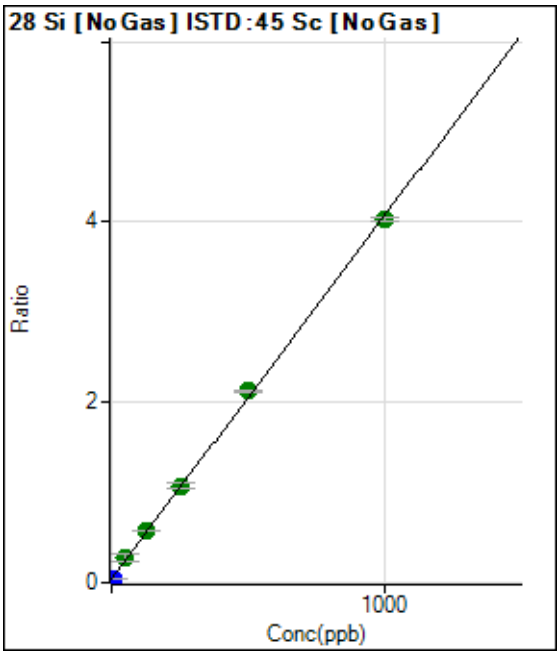


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0004	P	17.8
2	☐	20.000	20.812	1447.87	0.0085	P	4.2
3	☐	1000.000	944.228	66907.35	0.3689	P	0.1
4	☐	2500.000	2383.290	162302.52	0.9304	P	0.6
5	☐	5000.000	4744.231	319389.22	1.8517	P	2.8
6	☐	10000.000	9454.023	640443.72	3.6896	P	0.6
7	☐	20000.000	19261.848	1324002.93	7.5168	A	2.4
8	☐	100000.00	100218.49	5890618.18	39.1079	A	0.8

y = 3.9022E-004 * x + 3.9543E-004
R = 1.0000
DL = 0.5424

Weight: <None>
Min Conc: 0

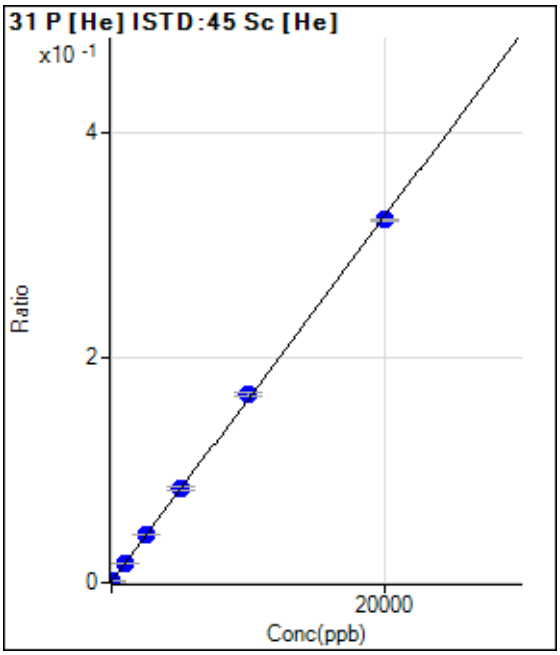
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	439018.00	0.0430	P	1.2
2	☐	10.000	1.318	521372.71	0.0483	P	11.8
3	☐	50.000	57.947	2657734.09	0.2762	A	24.1
4	☐	125.000	132.944	5819722.69	0.5781	A	1.2
5	☐	250.000	256.762	10867568.59	1.0766	A	4.9
6	☐	500.000	516.477	21210476.35	2.1221	A	0.1
7	☐	1000.000	988.767	40188977.18	4.0233	A	1.0
8	☐			540090.23	0.0630	P	2.0

y = 0.0040 * x + 0.0430
R = 0.9996
DL = 0.383

Weight: <None>
Min Conc: 0

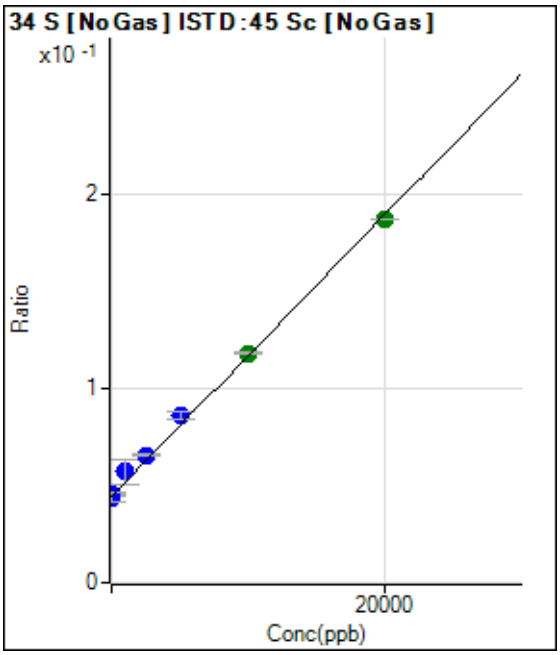


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-23.439	77.78	0.0004	P	8.7
2	☐	0.000	23.439	203.34	0.0012	P	15.1
3	☐	1000.000	984.002	3041.46	0.0168	P	5.2
4	☐	2500.000	2573.995	7425.29	0.0426	P	1.6
5	☐	5000.000	5122.984	14469.52	0.0839	P	4.2
6	☐	10000.000	10292.600	29115.88	0.1677	P	1.5
7	☐	20000.000	19814.504	56746.10	0.3222	P	0.6
8	☐			103.33	0.0007	P	25.9

y = 1.6217E-005 * x + 8.1905E-004
R = 0.9998
DL = 20.32

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	91.436	462277.32	0.0453	P	0.6
2	☐	0.000	-91.436	474393.64	0.0439	P	11.6
3	☐	1000.000	1719.693	550804.56	0.0571	P	22.4
4	☐	2500.000	2931.589	663142.57	0.0659	P	0.9
5	☐	5000.000	5790.737	874672.92	0.0866	P	4.7
6	☐	10000.000	10161.177	1183245.55	0.1184	A	1.3
7	☐	20000.000	19631.794	1869666.39	0.1872	A	0.1
8	☐			341644.28	0.0398	P	0.8

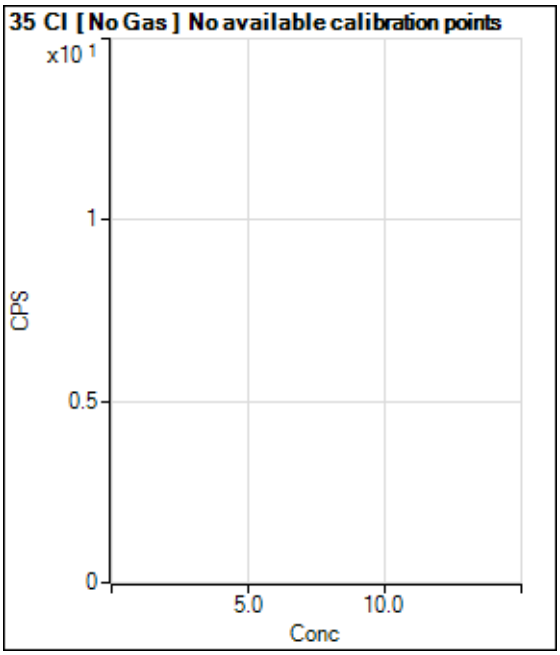
y = 7.2621E-006 * x + 0.0446

R = 0.9987

DL = 1115

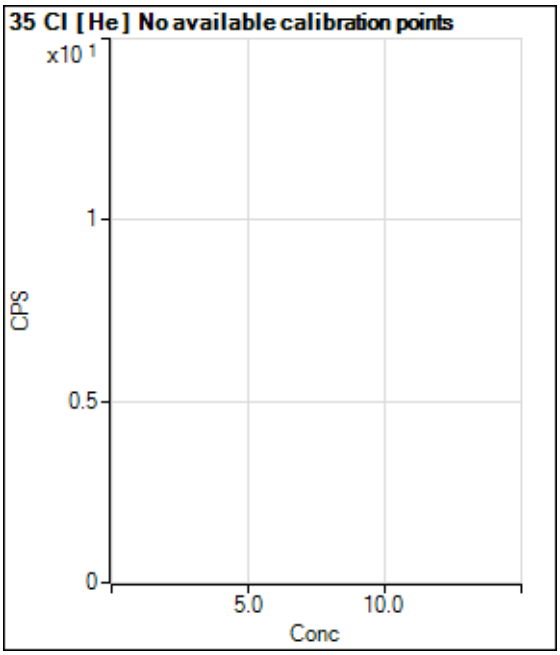
Weight: <None>

Min Conc: 0

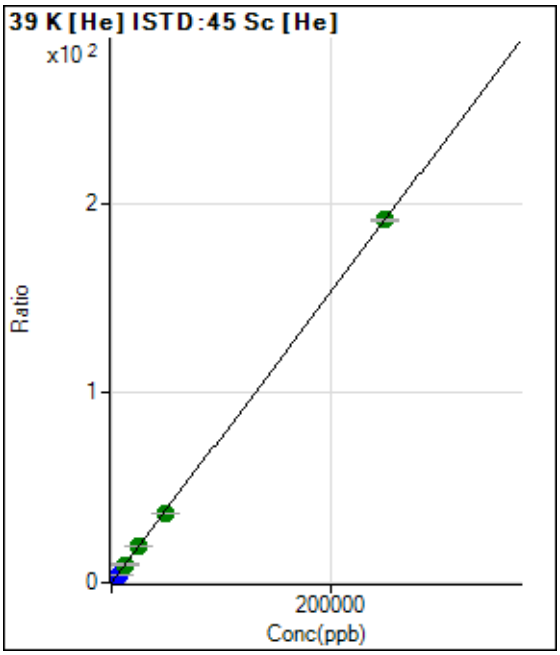


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			87301.98		P	1.0
2	☐			89021.26		P	0.1
3	☐			91722.28		P	0.9
4	☐			93513.74		P	1.0
5	☐			95968.46		P	1.0
6	☐			105718.87		P	1.5
7	☐			125191.17		P	2.2
8	☐			78650.90		P	1.3

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			327.79		P	22.4
2	☐			364.45		P	13.9
3	☐			338.90		P	6.7
4	☐			370.01		P	8.1
5	☐			366.67		P	16.8
6	☐			421.12		P	13.2
7	☐			482.23		P	4.9
8	☐			335.56		P	4.7

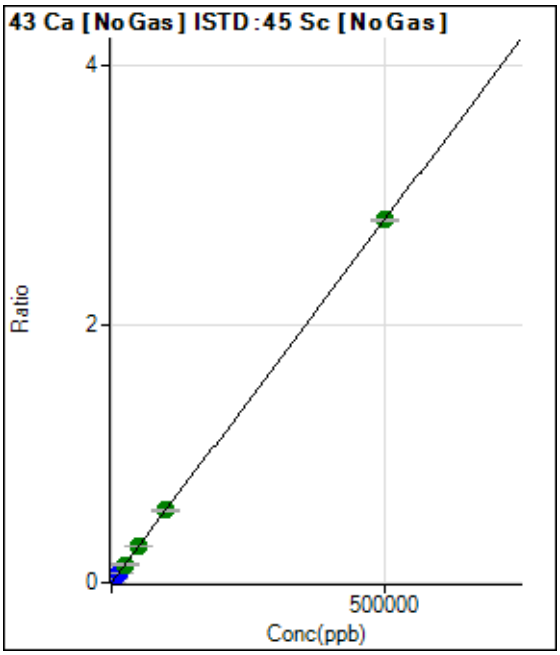


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6919.49	0.0391	P	4.2
2	☐	500.000	534.806	76122.46	0.4478	P	4.3
3	☐	2500.000	2307.121	326904.42	1.8025	P	1.1
4	☐	6250.000	5895.266	792872.79	4.5452	P	0.7
5	☐	12500.000	12397.007	1641061.38	9.5149	A	3.5
6	☐	25000.000	24691.725	3282843.01	18.9126	A	1.1
7	☐	50000.000	47826.281	6446082.82	36.5959	A	0.9
8	☐	250000.00	250481.44	28844672.07	191.4988	A	0.2

y = 7.6437E-004 * x + 0.0391
R = 1.0000
DL = 6.473

Weight: <None>
Min Conc: 0

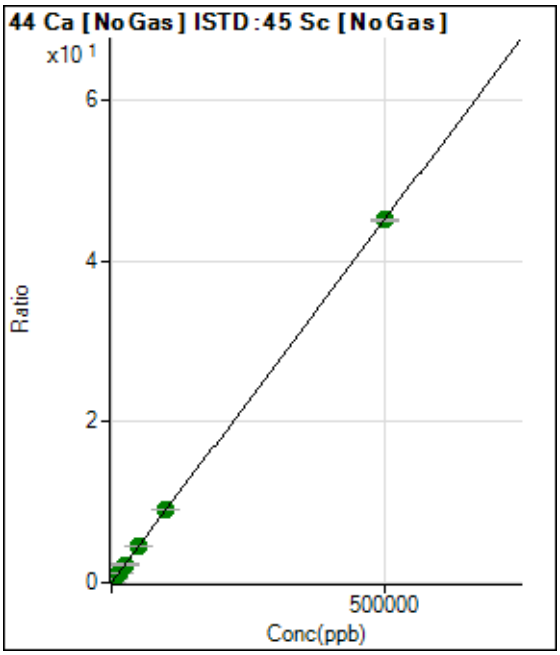
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	652.25	0.0001	P	7.8
2	☐	500.000	502.696	31114.75	0.0029	P	13.0
3	☐	5000.000	5288.731	286052.90	0.0297	P	24.2
4	☐	12500.000	12125.520	685427.60	0.0681	P	1.8
5	☐	25000.000	25120.915	1423546.38	0.1410	A	4.7
6	☐	50000.000	50513.785	2833296.73	0.2835	A	1.8
7	☐	100000.00	99600.911	5583183.74	0.5589	A	0.6
8	☐	500000.00	500028.86	24060389.92	2.8056	A	0.4

y = 5.6108E-006 * x + 6.3879E-005
R = 1.0000
DL = 2.673

Weight: <None>
Min Conc: 0

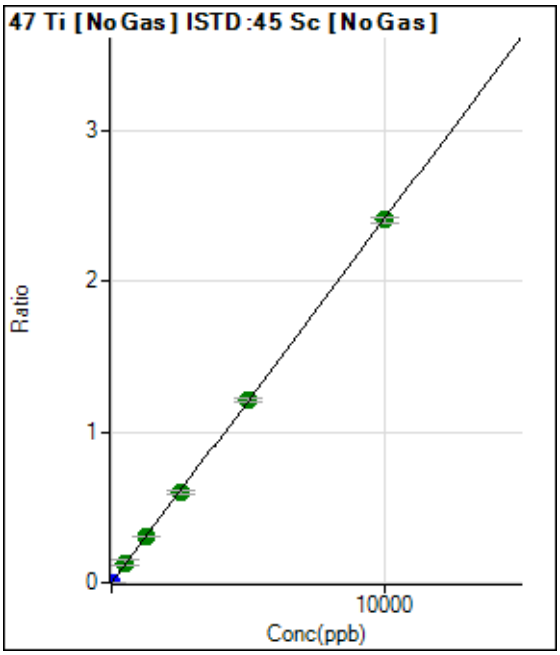


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12528.88	0.0012	P	1.8
2	☐	500.000	502.045	501592.12	0.0465	P	12.7
3	☐	5000.000	5448.895	4738972.12	0.4925	A	24.2
4	☐	12500.000	12640.355	11483804.27	1.1408	A	0.7
5	☐	25000.000	25035.435	22803525.77	2.2583	A	3.9
6	☐	50000.000	50342.892	45373573.21	4.5399	A	2.1
7	☐	100000.00	99859.054	89946286.44	9.0040	A	0.8
8	☐	500000.00	499984.12	386573563.1	45.0774	A	0.5

y = 9.0155E-005 * x + 0.0012
R = 1.0000
DL = 0.7418

Weight: <None>
Min Conc: 0

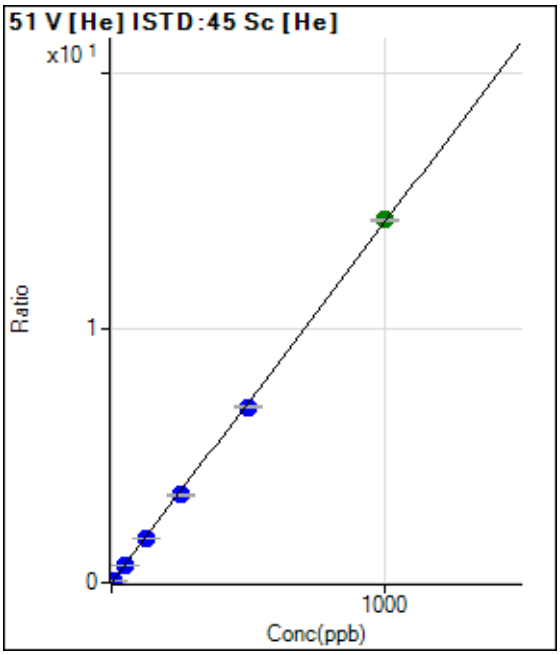
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.89	0.0000	P	20.5
2	☐	5.000	4.971	13142.77	0.0012	P	11.2
3	☐	500.000	550.183	1277167.89	0.1326	A	23.7
4	☐	1250.000	1268.840	3078267.46	0.3058	A	1.9
5	☐	2500.000	2496.906	6076264.91	0.6018	A	4.2
6	☐	5000.000	5044.828	12152218.29	1.2159	A	2.0
7	☐	10000.000	9973.496	24011557.14	2.4038	A	1.3
8	☐			7635.44	0.0009	P	3.4

y = 2.4101E-004 * x + 1.8491E-005
R = 1.0000
DL = 0.04713

Weight: <None>
Min Conc: 0

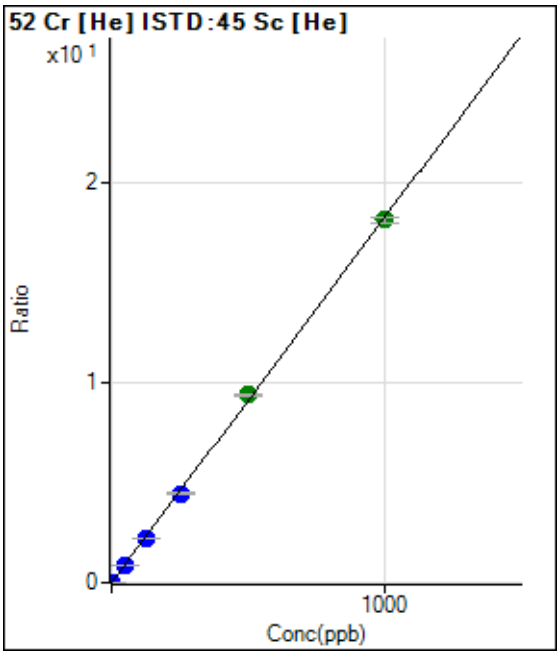


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.3
2	☐	5.000	5.483	13200.62	0.0776	P	2.4
3	☐	50.000	47.166	121066.77	0.6675	P	0.8
4	☐	125.000	121.591	300174.24	1.7207	P	0.3
5	☐	250.000	244.622	597090.22	3.4618	P	2.9
6	☐	500.000	488.621	1200275.56	6.9147	P	0.5
7	☐	1000.000	1007.600	2511623.45	14.2591	A	0.7
8	☐			377.79	0.0025	P	6.2

y = 0.0142 * x + 3.1318E-005
R = 0.9999
DL = 0.002274

Weight: <None>
Min Conc: 0

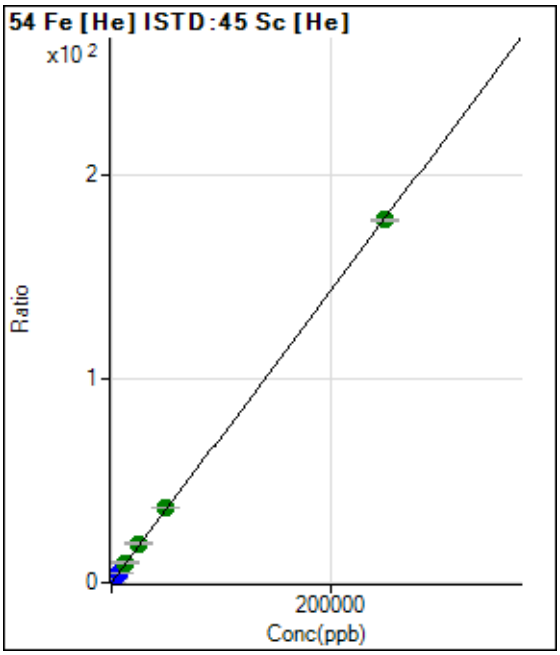
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	498.90	0.0028	P	7.0
2	☐	2.000	2.241	7423.10	0.0437	P	5.9
3	☐	50.000	47.857	158808.33	0.8757	P	1.3
4	☐	125.000	122.491	390228.31	2.2370	P	0.3
5	☐	250.000	244.663	770167.09	4.4653	P	3.0
6	☐	500.000	515.127	1631345.57	9.3984	A	1.2
7	☐	1000.000	994.191	3194471.79	18.1362	A	1.5
8	☐			7192.85	0.0477	P	3.6

y = 0.0182 * x + 0.0028
R = 0.9998
DL = 0.03221

Weight: <None>
Min Conc: 0

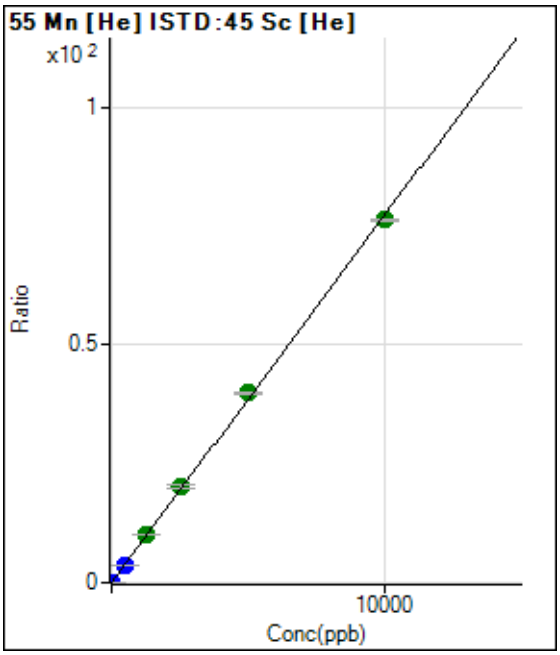


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	854.48	0.0048	P	9.5
2	☐	50.000	56.991	7733.27	0.0455	P	7.2
3	☐	2500.000	2519.275	327181.78	1.8042	P	1.5
4	☐	6250.000	6436.295	802794.28	4.6020	P	0.0
5	☐	12500.000	13713.646	1689814.80	9.7998	A	4.8
6	☐	25000.000	27015.281	3350085.64	19.3006	A	1.8
7	☐	50000.000	51526.392	6483355.74	36.8077	A	0.8
8	☐	250000.00	249427.66	26834841.27	178.1595	A	0.6

y = 7.1425E-004 * x + 0.0048
R = 0.9999
DL = 1.921

Weight: <None>
Min Conc: 0

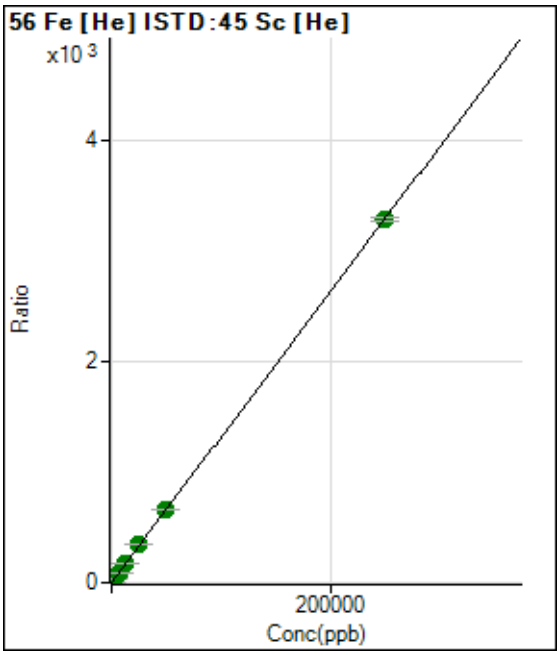
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0007	P	20.7
2	☐	1.000	1.108	1571.21	0.0092	P	3.8
3	☐	500.000	483.084	677215.15	3.7340	P	0.8
4	☐	1250.000	1317.109	1775779.26	10.1795	A	0.4
5	☐	2500.000	2621.468	3494258.91	20.2598	A	3.3
6	☐	5000.000	5165.927	6929872.95	39.9237	A	1.2
7	☐	10000.000	9879.127	13447998.41	76.3480	A	0.9
8	☐			3887.23	0.0258	P	4.4

y = 0.0077 * x + 6.7694E-004
R = 0.9997
DL = 0.05431

Weight: <None>
Min Conc: 0

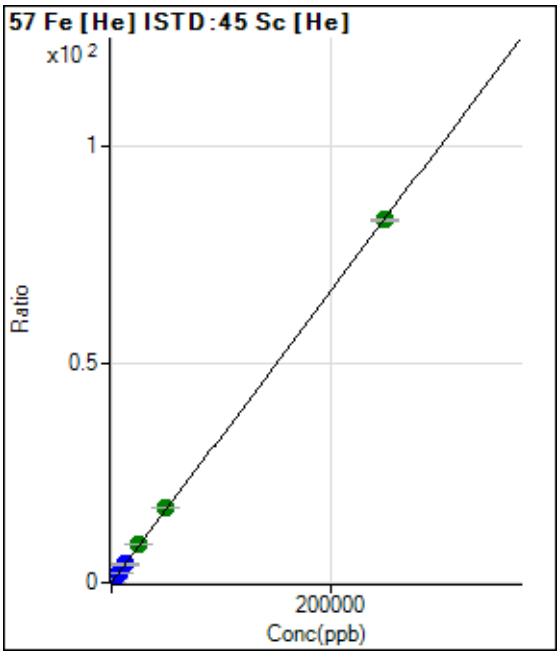


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22538.22	0.1276	P	66.0
2	☐	50.000	51.105	136016.01	0.8000	P	3.3
3	☐	2500.000	2571.809	6160739.35	33.9691	A	0.9
4	☐	6250.000	6635.419	15253173.94	87.4409	A	1.0
5	☐	12500.000	13327.568	30273795.94	175.5006	A	2.2
6	☐	25000.000	26225.504	59923756.33	345.2203	A	0.8
7	☐	50000.000	50114.060	116177056.0	659.5620	A	0.4
8	☐	250000.00	249802.90	495137863.7	3,287.201	A	0.9

y = 0.0132 * x + 0.1276
R = 1.0000
DL = 19.2

Weight: <None>
Min Conc: 0

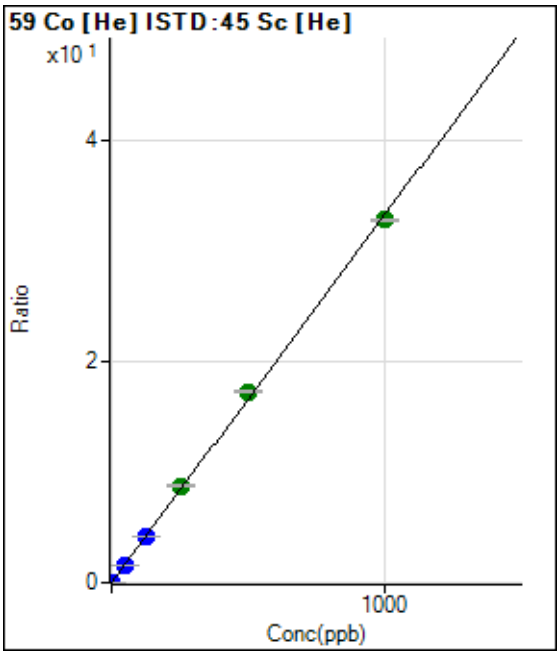
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	377.79	0.0021	P	6.7
2	☐	50.000	55.790	3516.03	0.0207	P	3.6
3	☐	2500.000	2449.067	148006.07	0.8161	P	1.0
4	☐	6250.000	6323.212	366971.18	2.1037	P	0.7
5	☐	12500.000	12646.148	725337.44	4.2052	P	2.7
6	☐	25000.000	26398.224	1523369.16	8.7757	A	2.3
7	☐	50000.000	51293.001	3003180.93	17.0497	A	0.3
8	☐	250000.00	249592.94	12495101.62	82.9559	A	0.8

y = 3.3236E-004 * x + 0.0021
R = 1.0000
DL = 1.29

Weight: <None>
Min Conc: 0

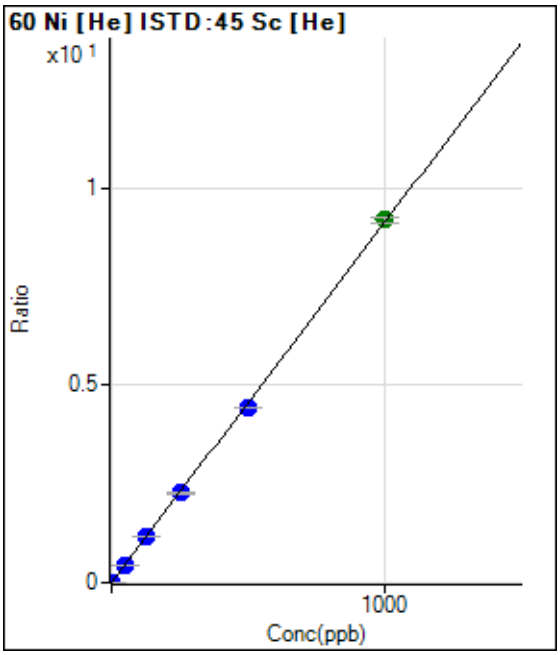


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0004	P	23.3
2	☐	1.000	1.159	6620.48	0.0390	P	6.6
3	☐	50.000	49.147	296804.81	1.6368	P	1.6
4	☐	125.000	125.160	727016.73	4.1676	P	0.5
5	☐	250.000	262.756	1509202.30	8.7490	A	2.5
6	☐	500.000	519.431	3002196.07	17.2951	A	0.5
7	☐	1000.000	987.118	5789229.43	32.8671	A	0.8
8	☐			10006.92	0.0664	P	2.0

y = 0.0333 * x + 3.8295E-004
R = 0.9996
DL = 0.008028

Weight: <None>
Min Conc: 0

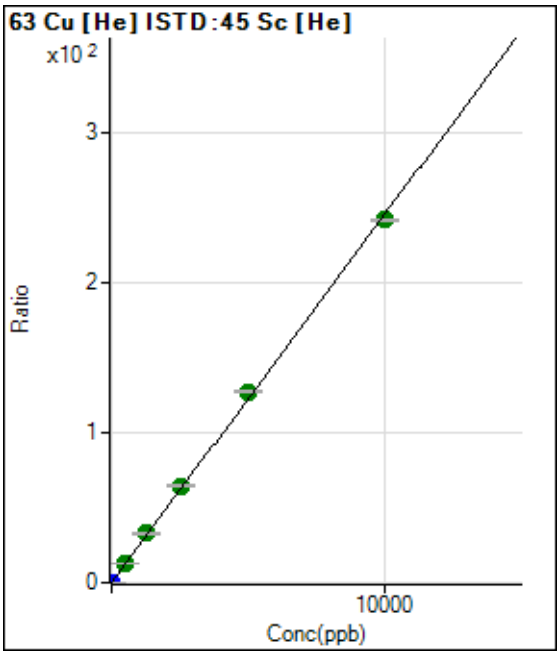
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1154.51	0.0065	P	4.0
2	☐	1.000	1.143	2879.21	0.0169	P	5.3
3	☐	50.000	49.385	82814.67	0.4566	P	1.1
4	☐	125.000	125.678	200962.91	1.1520	P	1.1
5	☐	250.000	249.337	393120.06	2.2792	P	2.8
6	☐	500.000	484.700	768009.58	4.4244	P	0.6
7	☐	1000.000	1007.762	1619119.42	9.1920	A	1.3
8	☐			6365.92	0.0423	P	2.3

y = 0.0091 * x + 0.0065
R = 0.9998
DL = 0.08551

Weight: <None>
Min Conc: 0

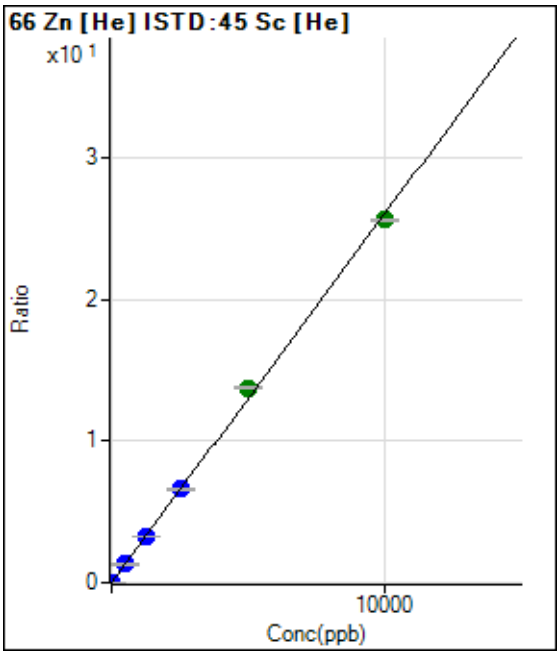


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3448.23	0.0195	P	2.4
2	☐	2.000	2.388	13282.96	0.0781	P	2.8
3	☐	500.000	527.339	2352663.98	12.9707	A	0.3
4	☐	1250.000	1333.199	5715219.36	32.7622	A	0.6
5	☐	2500.000	2638.077	11179240.11	64.8094	A	2.5
6	☐	5000.000	5186.805	22114631.34	127.4049	A	1.4
7	☐	10000.000	9860.311	42659109.37	242.1839	A	0.3
8	☐			9635.56	0.0640	P	3.8

y = 0.0246 * x + 0.0195
R = 0.9996
DL = 0.05682

Weight: <None>
Min Conc: 0

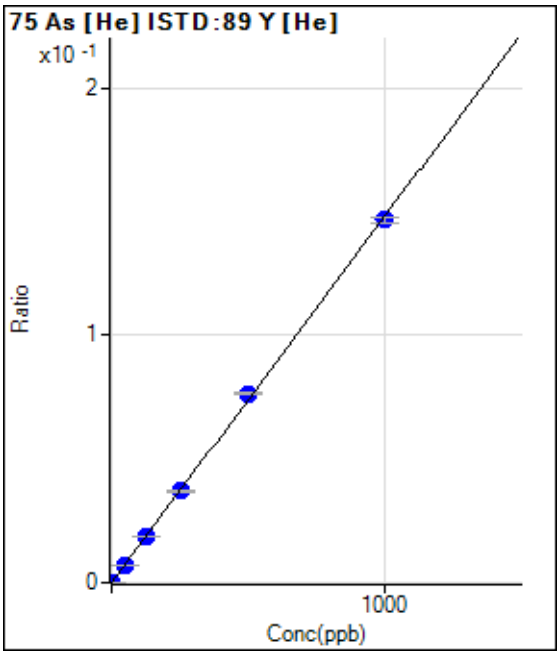
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	260.00	0.0015	P	15.5
2	☐	5.000	6.224	3003.68	0.0177	P	6.1
3	☐	500.000	498.627	235781.76	1.3002	P	1.6
4	☐	1250.000	1272.855	578586.56	3.3168	P	0.5
5	☐	2500.000	2534.122	1138714.69	6.6019	P	2.8
6	☐	5000.000	5291.577	2392598.90	13.7840	A	1.6
7	☐	10000.000	9842.892	4516084.52	25.6384	A	0.7
8	☐			5475.55	0.0364	P	2.7

y = 0.0026 * x + 0.0015
R = 0.9994
DL = 0.2623

Weight: <None>
Min Conc: 0

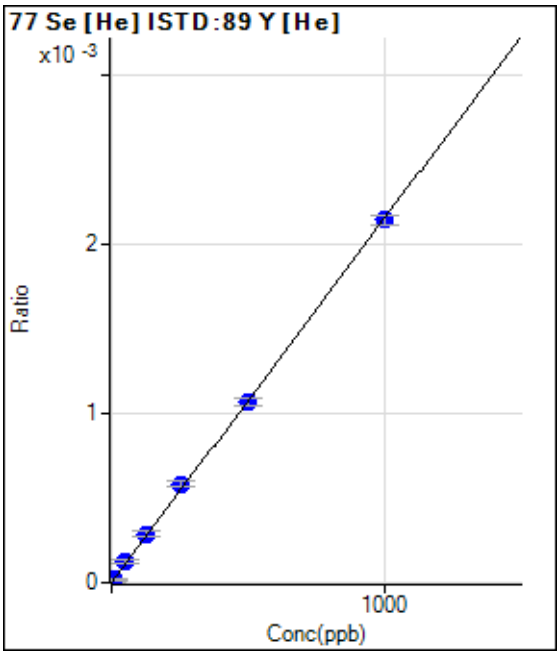


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	1.000	1.227	312.23	0.0002	P	10.4
3	☐	50.000	49.112	13248.54	0.0073	P	1.5
4	☐	125.000	125.594	33212.39	0.0186	P	0.5
5	☐	250.000	251.372	66011.42	0.0372	P	2.4
6	☐	500.000	516.525	133756.51	0.0765	P	1.5
7	☐	1000.000	991.364	261291.48	0.1468	P	1.6
8	☐			97.78	0.0001	P	3.2

y = 1.4804E-004 * x + 6.1724E-007
R = 0.9998
DL = 0.02167

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	8.475	32.22	0.0000	P	46.3
3	☐	50.000	59.264	234.45	0.0001	P	17.9
4	☐	125.000	132.607	511.13	0.0003	P	10.7
5	☐	250.000	271.096	1036.71	0.0006	P	4.4
6	☐	500.000	494.887	1865.70	0.0011	P	3.9
7	☐	1000.000	995.851	3820.55	0.0021	P	2.6
8	☐			2.22	0.0000	P	173.

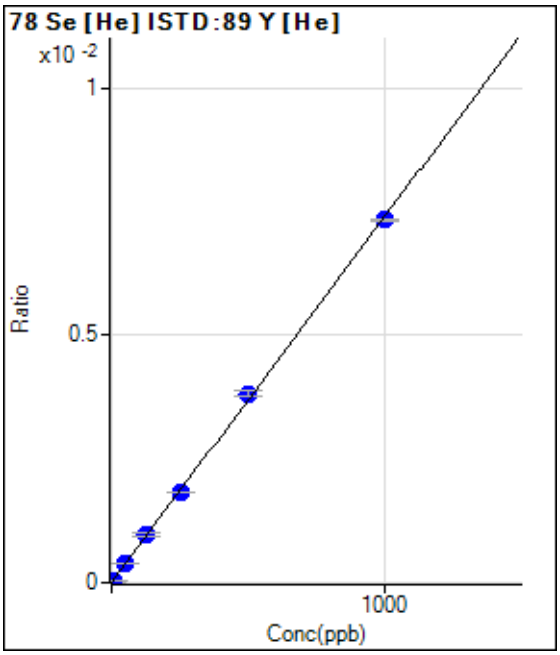
y = 2.1542E-006 * x + 6.1943E-007

R = 0.9997

DL = 1.494

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	5.000	6.704	91.11	0.0001	P	9.7
3	☐	50.000	52.870	718.91	0.0004	P	3.7
4	☐	125.000	130.237	1726.79	0.0010	P	6.7
5	☐	250.000	246.250	3237.07	0.0018	P	1.7
6	☐	500.000	516.176	6679.43	0.0038	P	2.7
7	☐	1000.000	992.043	13061.72	0.0073	P	0.9
8	☐			7.78	0.0000	P	22.8

y = 7.3910E-006 * x + 3.7151E-006

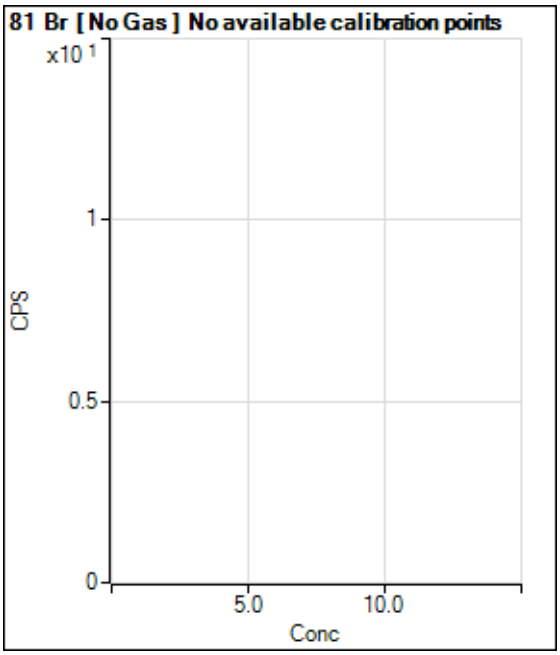
R = 0.9998

DL = 1.306

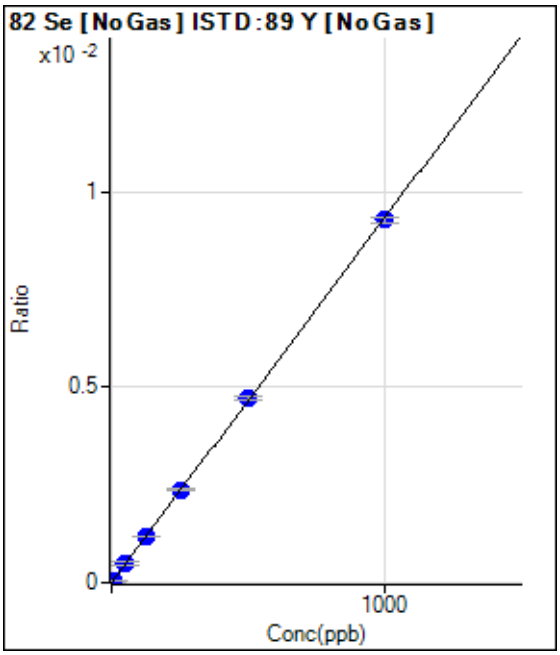
Weight: <None>

Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6494.90		P	0.3
2	☐			6387.07		P	1.5
3	☐			6664.97		P	1.9
4	☐			6581.59		P	4.2
5	☐			6723.90		P	2.7
6	☐			7118.55		P	2.4
7	☐			7374.22		P	2.1
8	☐			7478.73		P	4.3

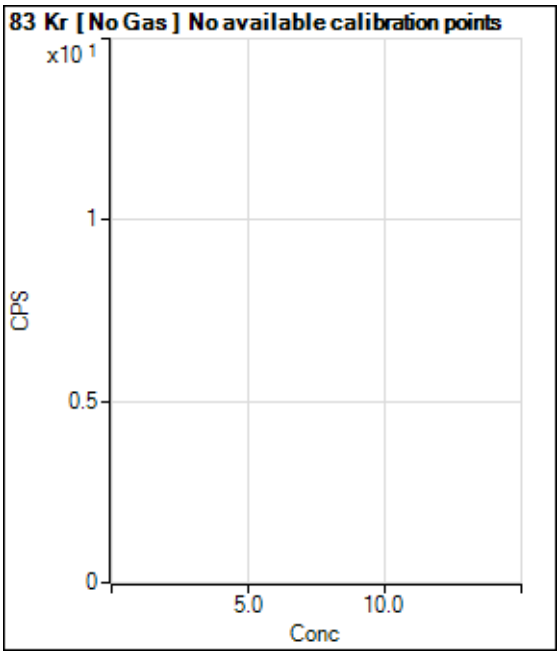


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	74.3
2	☐	5.000	4.985	1293.42	0.0000	P	11.7
3	☐	50.000	54.276	12415.75	0.0005	P	19.7
4	☐	125.000	127.475	30465.71	0.0012	P	2.4
5	☐	250.000	253.777	60483.73	0.0024	P	2.0
6	☐	500.000	506.780	120100.61	0.0047	P	1.3
7	☐	1000.000	995.143	235530.80	0.0093	P	1.8
8	☐			52.22	0.0000	P	24.3

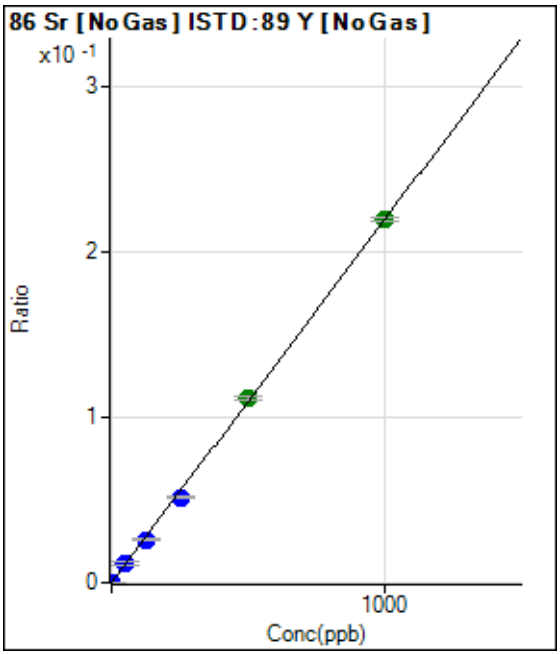
y = 9.3292E-006 * x + 1.7752E-006
R = 1.0000
DL = 0.4241

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			148.89		P	6.8
2	☐			182.23		P	12.2
3	☐			172.22		P	23.1
4	☐			173.34		P	5.1
5	☐			176.67		P	19.9
6	☐			211.11		P	19.0
7	☐			222.23		P	3.5
8	☐			334.45		P	11.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	307.78	0.0000	P	9.0
2	☐	1.000	0.942	5845.72	0.0002	P	12.6
3	☐	50.000	51.572	274767.13	0.0113	P	23.1
4	☐	125.000	118.200	662329.24	0.0259	P	2.1
5	☐	250.000	235.121	1314532.86	0.0515	P	1.6
6	☐	500.000	508.996	2830318.92	0.1115	A	1.4
7	☐	1000.000	999.993	5554309.64	0.2190	A	1.0
8	☐			12959.46	0.0006	P	2.0

y = 2.1895E-004 * x + 1.2028E-005

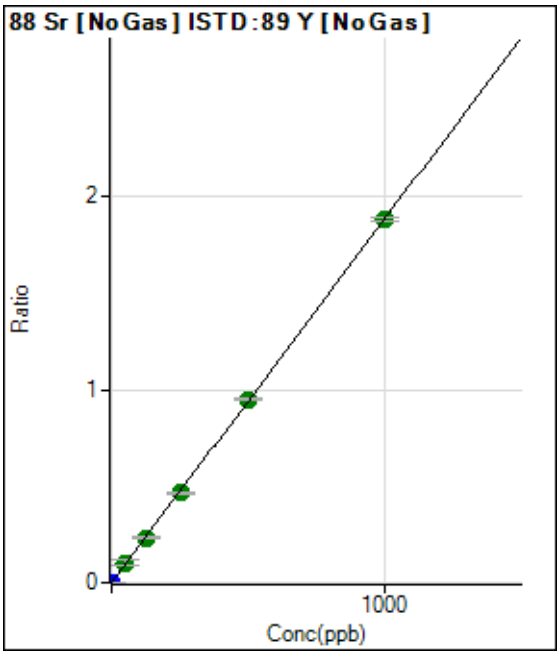
R = 0.9998

DL = 0.01477

Weight: <None>

Min Conc: 0

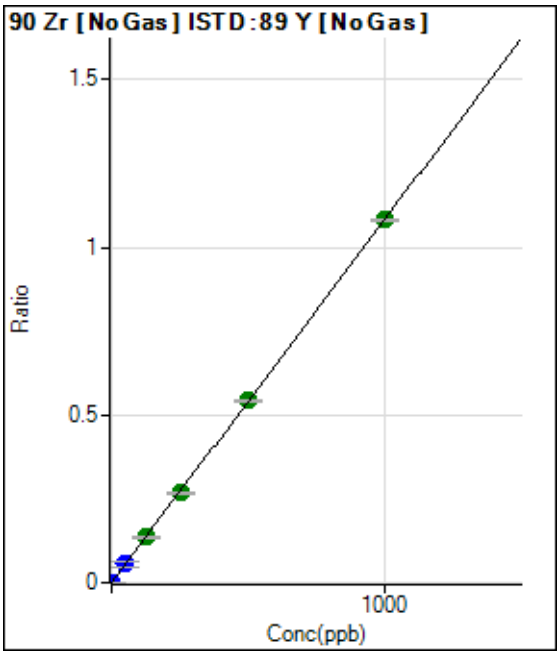
Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	391.12	0.0000	P	5.4
2	☐	1.000	0.936	47600.94	0.0018	P	12.6
3	☐	50.000	54.699	2501182.03	0.1030	A	23.7
4	☐	125.000	123.294	5937817.34	0.2321	A	3.0
5	☐	250.000	247.589	11897762.46	0.4661	A	2.4
6	☐	500.000	504.638	24124382.69	0.9500	A	1.6
7	☐	1000.000	998.262	47668973.73	1.8792	A	1.0
8	☐			110417.44	0.0050	P	1.1

y = 0.0019 * x + 1.5280E-005
R = 1.0000
DL = 0.001326

Weight: <None>
Min Conc: 0

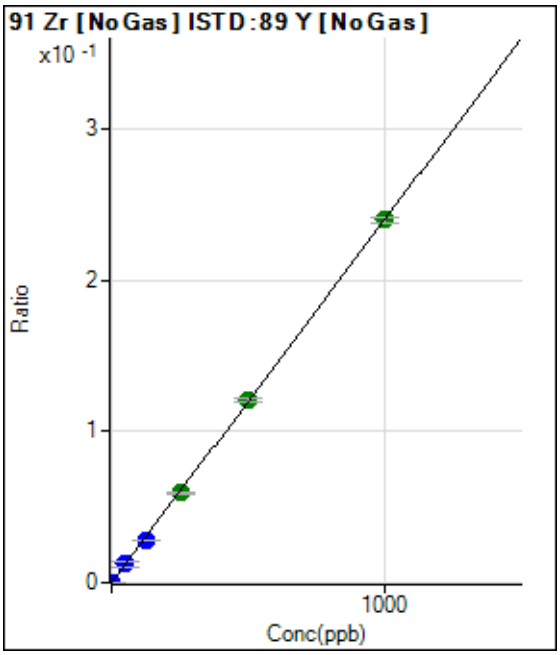


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	853.37	0.0000	P	6.3
2	☐	1.000	0.969	28966.82	0.0011	P	11.0
3	☐	50.000	50.574	1328524.54	0.0547	P	24.1
4	☐	125.000	124.759	3452648.35	0.1350	A	1.6
5	☐	250.000	247.006	6819937.88	0.2672	A	2.6
6	☐	500.000	501.642	13778050.35	0.5426	A	1.5
7	☐	1000.000	999.929	27433664.04	1.0815	A	0.7
8	☐			13563.39	0.0006	P	4.4

y = 0.0011 * x + 3.3329E-005
R = 1.0000
DL = 0.005796

Weight: <None>
Min Conc: 0

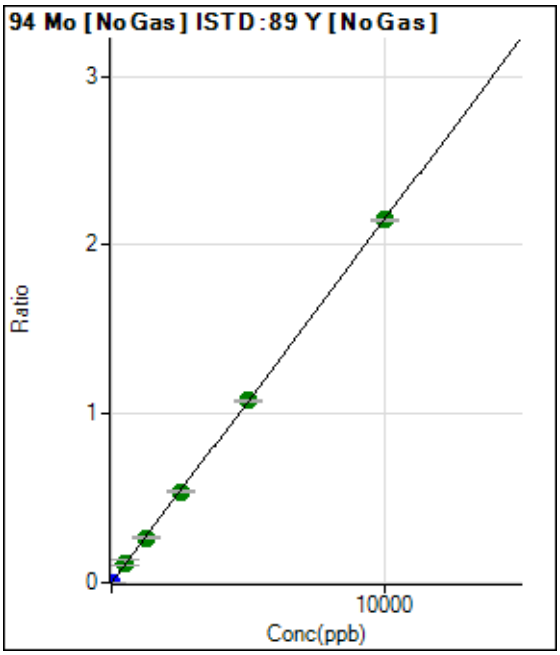
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	165.56	0.0000	P	9.4
2	☐	1.000	0.963	6349.28	0.0002	P	12.3
3	☐	50.000	50.771	295444.34	0.0122	P	24.0
4	☐	125.000	116.903	716671.05	0.0280	P	2.5
5	☐	250.000	247.741	1515406.09	0.0594	A	2.3
6	☐	500.000	502.448	3057214.64	0.1204	A	1.8
7	☐	1000.000	1000.314	6079831.16	0.2397	A	1.4
8	☐			3042.59	0.0001	P	6.0

y = 2.3960E-004 * x + 6.4703E-006
R = 1.0000
DL = 0.00762

Weight: <None>
Min Conc: 0

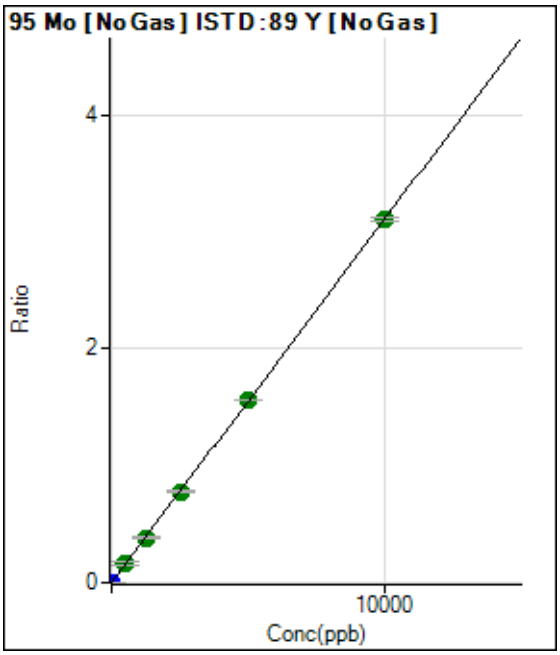


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	370.01	0.0000	P	6.0
2	☐	5.000	5.780	33725.27	0.0013	P	10.8
3	☐	500.000	549.166	2872345.76	0.1182	A	23.2
4	☐	1250.000	1242.683	6840431.01	0.2674	A	3.1
5	☐	2500.000	2493.022	13695802.85	0.5365	A	2.1
6	☐	5000.000	5021.863	27443830.98	1.0807	A	0.9
7	☐	10000.000	9989.269	54530670.30	2.1497	A	0.5
8	☐			11696.18	0.0005	P	10.5

y = 2.1520E-004 * x + 1.4443E-005
R = 1.0000
DL = 0.01211

Weight: <None>
Min Conc: 0

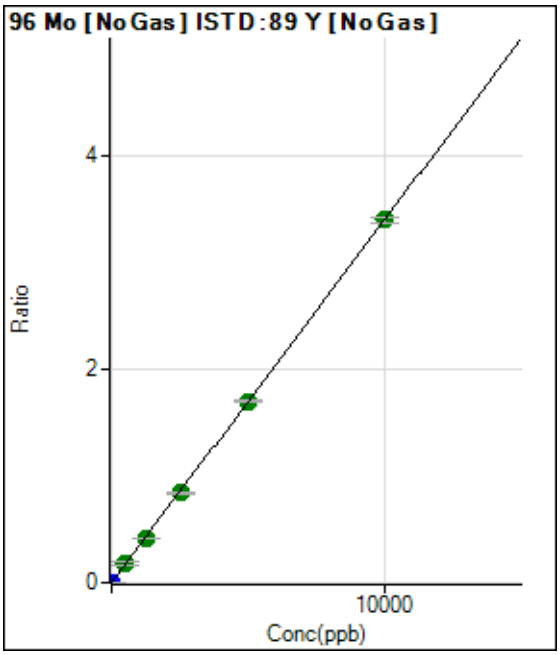
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0000	P	3.3
2	☐	5.000	4.849	40481.01	0.0015	P	11.5
3	☐	500.000	541.575	4087455.42	0.1681	A	23.1
4	☐	1250.000	1242.700	9869320.06	0.3858	A	2.1
5	☐	2500.000	2494.023	19766705.68	0.7743	A	1.7
6	☐	5000.000	5032.278	39672522.19	1.5623	A	0.6
7	☐	10000.000	9984.189	78624273.27	3.0996	A	1.2
8	☐			10526.35	0.0005	P	12.8

y = 3.1045E-004 * x + 5.8593E-006
R = 1.0000
DL = 0.001887

Weight: <None>
Min Conc: 0

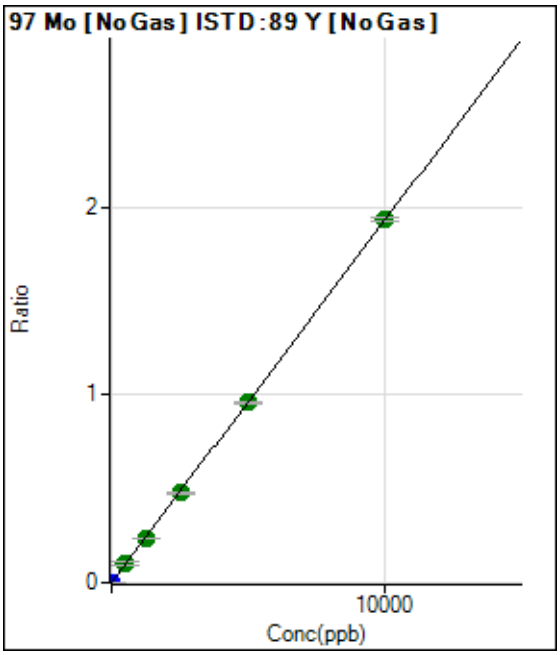


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.89	0.0000	P	8.2
2	☐	5.000	4.889	44656.04	0.0017	P	11.9
3	☐	500.000	542.586	4473009.20	0.1842	A	24.0
4	☐	1250.000	1235.031	10728846.23	0.4194	A	1.2
5	☐	2500.000	2478.726	21484417.46	0.8417	A	2.6
6	☐	5000.000	5006.364	43168927.13	1.7000	A	0.6
7	☐	10000.000	10001.878	86149439.83	3.3962	A	1.7
8	☐			15038.31	0.0007	P	10.4

y = 3.3956E-004 * x + 7.3783E-006
R = 1.0000
DL = 0.005376

Weight: <None>
Min Conc: 0

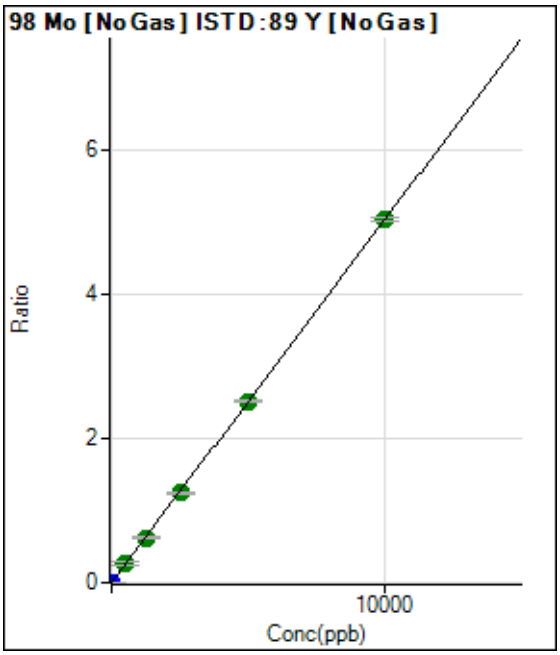
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	21.7
2	☐	5.000	4.932	25572.54	0.0010	P	11.8
3	☐	500.000	540.371	2534903.71	0.1043	A	23.1
4	☐	1250.000	1232.848	6085729.98	0.2379	A	2.2
5	☐	2500.000	2471.036	12172380.79	0.4768	A	2.1
6	☐	5000.000	4968.288	24345899.36	0.9587	A	0.2
7	☐	10000.000	10023.222	49064591.49	1.9342	A	1.0
8	☐			5007.64	0.0002	P	18.6

y = 1.9297E-004 * x + 3.1233E-006
R = 1.0000
DL = 0.01055

Weight: <None>
Min Conc: 0

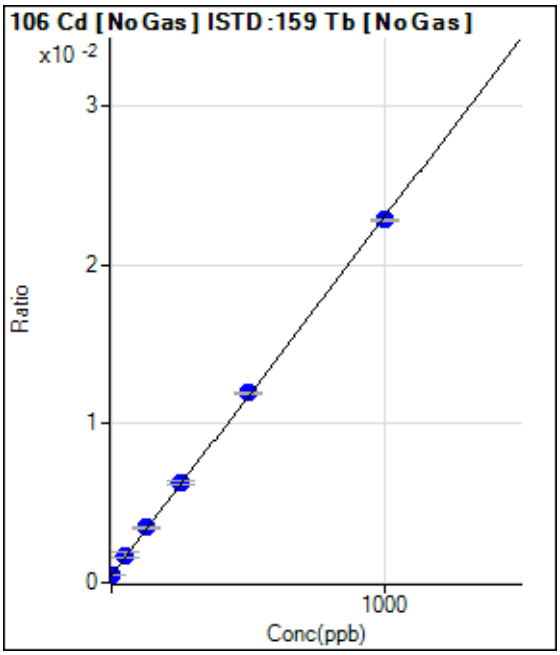


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	224.45	0.0000	P	27.9
2	☐	5.000	4.828	65226.83	0.0024	P	11.7
3	☐	500.000	535.465	6547775.04	0.2691	A	22.6
4	☐	1250.000	1237.321	15908669.35	0.6219	A	2.5
5	☐	2500.000	2486.031	31897927.86	1.2495	A	2.1
6	☐	5000.000	4995.571	63761652.94	2.5109	A	0.9
7	☐	10000.000	10005.518	127565231.4	5.0290	A	1.0
8	☐			12679.42	0.0006	P	21.1

y = 5.0262E-004 * x + 8.7854E-006
R = 1.0000
DL = 0.01464

Weight: <None>
Min Conc: 0

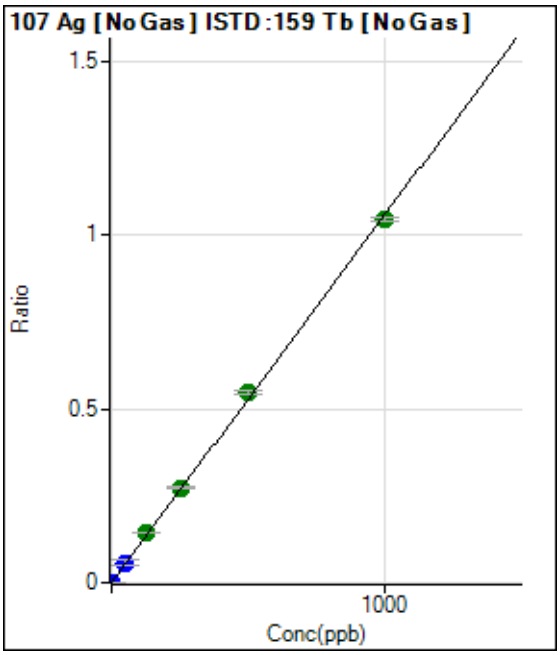
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8450.45	0.0005	P	2.1
2	☐	1.000	1.001	9393.32	0.0005	P	1.0
3	☐	50.000	56.819	31144.13	0.0017	P	17.1
4	☐	125.000	132.809	64058.73	0.0035	P	1.6
5	☐	250.000	256.695	117276.19	0.0063	P	3.6
6	☐	500.000	509.462	224496.80	0.0120	P	1.0
7	☐	1000.000	992.278	430122.25	0.0229	P	0.7
8	☐			7213.06	0.0004	P	3.7

y = 2.2581E-005 * x + 4.5522E-004
R = 0.9999
DL = 1.264

Weight: <None>
Min Conc: 0

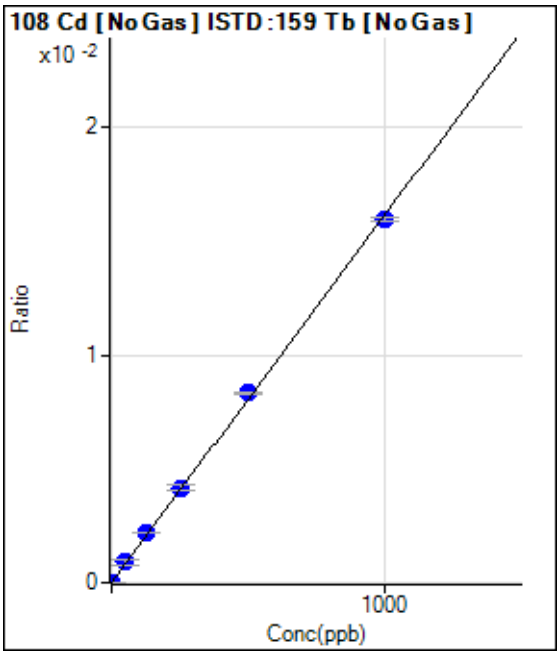


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.78	0.0000	P	12.0
2	☐	1.000	0.998	20782.39	0.0011	P	11.5
3	☐	50.000	54.857	1028057.04	0.0580	P	24.2
4	☐	125.000	135.185	2650706.42	0.1429	A	1.0
5	☐	250.000	258.902	5134967.66	0.2737	A	3.8
6	☐	500.000	517.780	10275473.46	0.5474	A	2.0
7	☐	1000.000	987.369	19638590.54	1.0438	A	1.1
8	☐			2375.79	0.0001	P	15.9

y = 0.0011 * x + 1.0655E-005
R = 0.9997
DL = 0.00362

Weight: <None>
Min Conc: 0

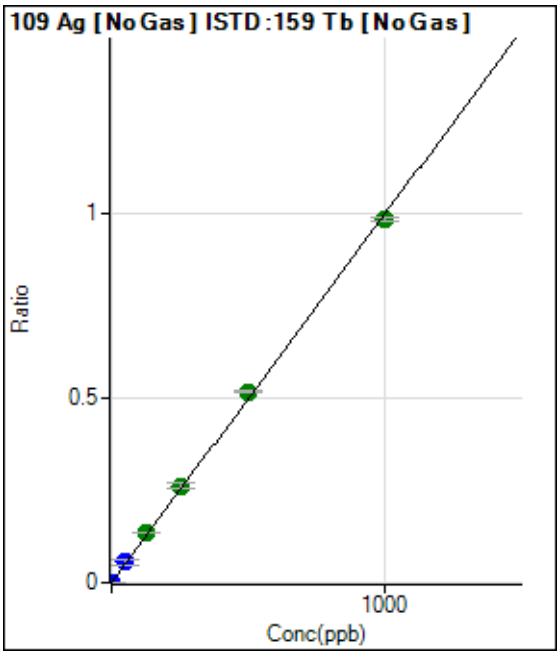
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.56	0.0000	P	19.9
2	☐	1.000	1.051	360.01	0.0000	P	3.2
3	☐	50.000	56.960	16267.49	0.0009	P	25.8
4	☐	125.000	134.301	40176.17	0.0022	P	1.2
5	☐	250.000	258.440	78154.29	0.0042	P	4.8
6	☐	500.000	516.560	156333.85	0.0083	P	1.1
7	☐	1000.000	988.099	299694.52	0.0159	P	1.1
8	☐			158.89	0.0000	P	13.5

y = 1.6120E-005 * x + 1.3768E-006
R = 0.9997
DL = 0.05108

Weight: <None>
Min Conc: 0

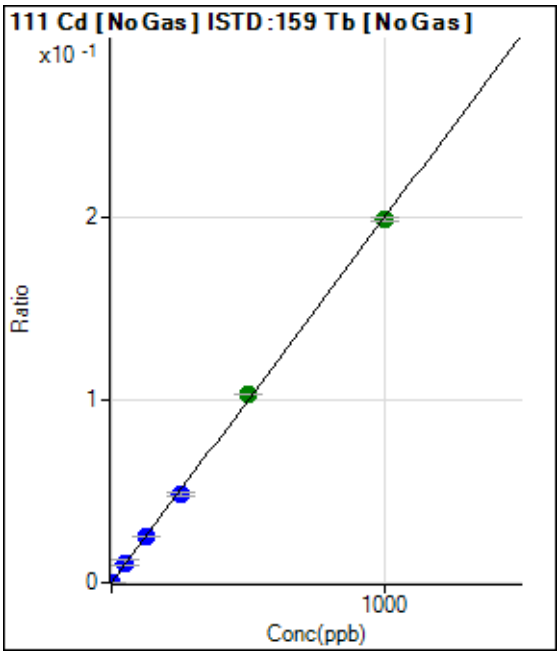


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	29.9
2	☐	1.000	0.989	19242.42	0.0010	P	13.2
3	☐	50.000	55.571	979992.87	0.0553	P	24.3
4	☐	125.000	136.178	2512876.39	0.1355	A	0.8
5	☐	250.000	263.286	4912844.65	0.2620	A	4.6
6	☐	500.000	518.343	9681019.72	0.5157	A	1.4
7	☐	1000.000	985.831	18453884.03	0.9809	A	1.2
8	☐			2240.21	0.0001	P	21.2

y = 9.9494E-004 * x + 3.9517E-006
R = 0.9996
DL = 0.003569

Weight: <None>
Min Conc: 0

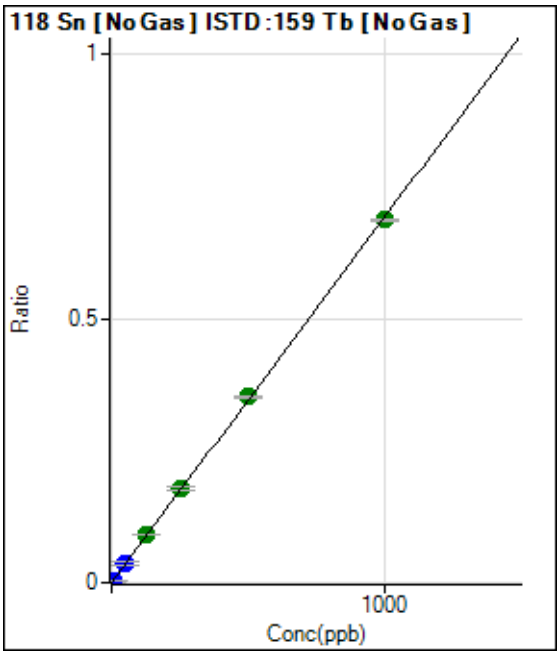
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1694.42	0.0001	P	1.7
2	☐	1.000	1.055	5912.93	0.0003	P	7.5
3	☐	50.000	54.265	194068.38	0.0109	P	23.4
4	☐	125.000	125.137	465535.10	0.0251	P	2.2
5	☐	250.000	243.081	913220.63	0.0487	P	3.4
6	☐	500.000	516.229	1938599.11	0.1033	A	0.7
7	☐	1000.000	993.385	3737296.67	0.1986	A	1.1
8	☐			2178.09	0.0001	P	2.1

y = 1.9988E-004 * x + 9.1279E-005
R = 0.9998
DL = 0.02298

Weight: <None>
Min Conc: 0

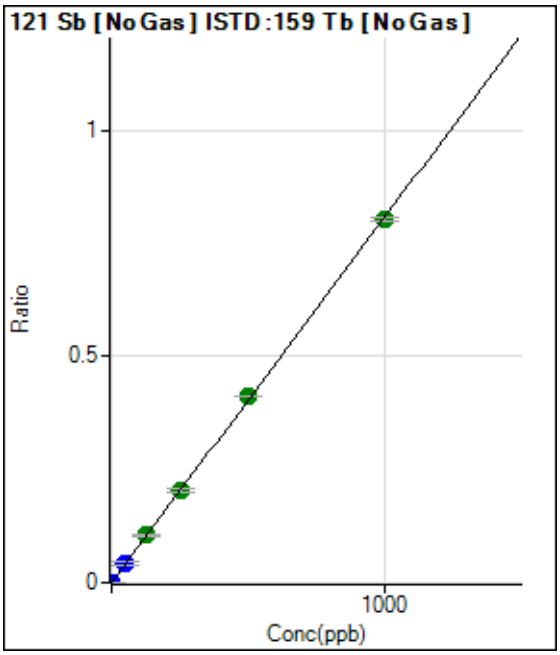


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1621.65	0.0001	P	23.7
2	☐	5.000	4.999	69142.12	0.0035	P	12.0
3	☐	50.000	53.480	657080.60	0.0371	P	24.5
4	☐	125.000	130.456	1675489.30	0.0903	A	1.2
5	☐	250.000	257.292	3340871.69	0.1781	A	3.7
6	☐	500.000	508.626	6607223.16	0.3520	A	0.5
7	☐	1000.000	993.008	12927309.81	0.6871	A	0.3
8	☐			3309.33	0.0002	P	11.7

y = 6.9186E-004 * x + 8.7363E-005
R = 0.9999
DL = 0.08963

Weight: <None>
Min Conc: 0

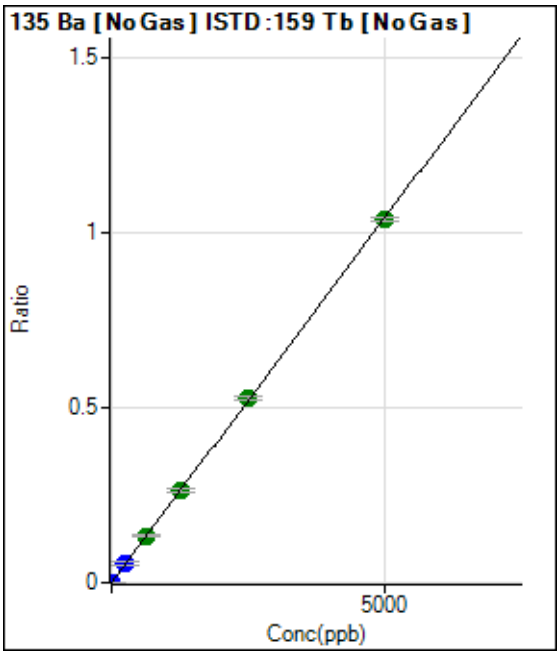
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	17.8
2	☐	2.000	1.972	31147.70	0.0016	P	10.8
3	☐	50.000	52.670	754826.06	0.0425	P	23.5
4	☐	125.000	129.574	1940782.70	0.1047	A	3.2
5	☐	250.000	253.909	3845968.90	0.2051	A	4.7
6	☐	500.000	509.992	7732098.84	0.4119	A	0.2
7	☐	1000.000	993.322	15094131.58	0.8023	A	1.2
8	☐			8715.10	0.0005	P	5.2

y = 8.0767E-004 * x + 3.5315E-006
R = 0.9999
DL = 0.002341

Weight: <None>
Min Conc: 0

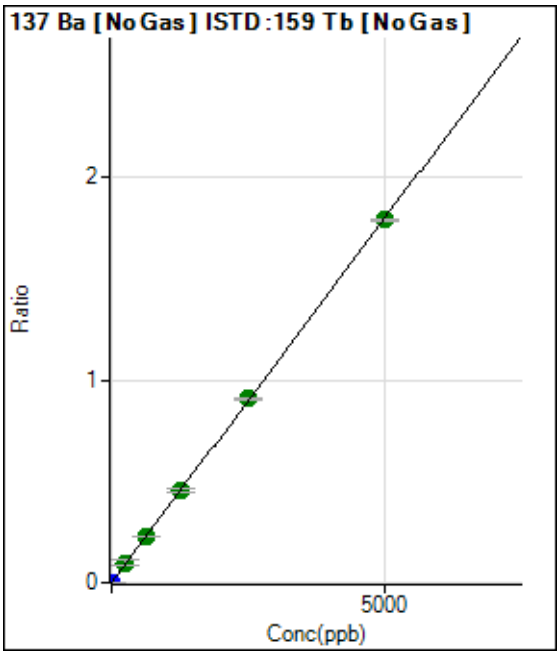


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	303.34	0.0000	P	14.3
2	☐	10.000	10.010	40939.45	0.0021	P	12.1
3	☐	250.000	261.176	963069.36	0.0544	P	24.7
4	☐	625.000	646.050	2493844.82	0.1345	A	2.7
5	☐	1250.000	1264.813	4936759.41	0.2633	A	5.1
6	☐	2500.000	2533.089	9896985.06	0.5272	A	1.8
7	☐	5000.000	4976.562	19487599.71	1.0358	A	0.9
8	☐			6980.76	0.0004	P	8.4

y = 2.0813E-004 * x + 1.6339E-005
R = 1.0000
DL = 0.03365

Weight: <None>
Min Conc: 0

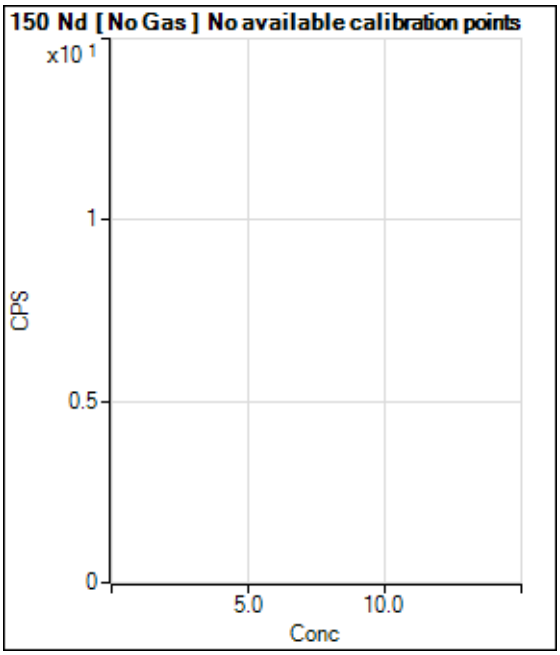
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	477.79	0.0000	P	7.2
2	☐	10.000	9.870	69751.65	0.0036	P	11.1
3	☐	250.000	275.897	1758655.36	0.0992	A	24.3
4	☐	625.000	636.748	4246780.21	0.2290	A	1.7
5	☐	1250.000	1258.340	8487615.85	0.4525	A	4.2
6	☐	2500.000	2527.743	17062861.00	0.9090	A	1.0
7	☐	5000.000	4981.281	33700608.39	1.7913	A	0.8
8	☐			12557.06	0.0008	P	7.8

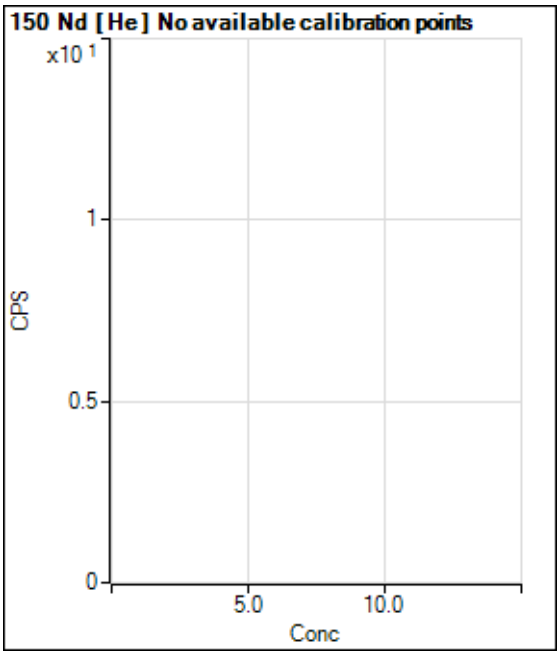
y = 3.5960E-004 * x + 2.5740E-005
R = 1.0000
DL = 0.0155

Weight: <None>
Min Conc: 0

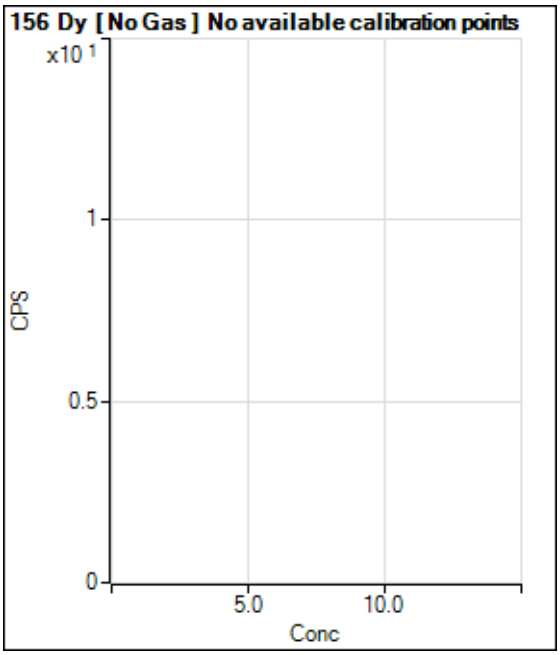


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			17.78		P	21.7
2	☐			25.55		P	52.7
3	☐			87.78		P	8.8
4	☐			216.67		P	17.7
5	☐			472.23		P	12.6
6	☐			820.04		P	9.1
7	☐			1569.00		P	6.3
8	☐			341.12		P	5.6

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Inst Id :P8

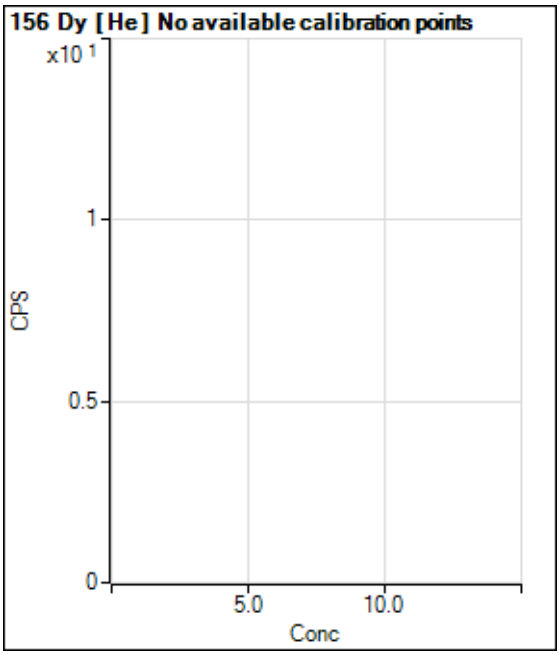


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5.55		P	69.3
2	☐			1.11		P	173.
3	☐			0.00		P	
4	☐			4.45		P	86.6
5	☐			16.67		P	52.9
6	☐			36.67		P	NaN
7	☐			60.00		P	11.1
8	☐			60.00		P	29.4

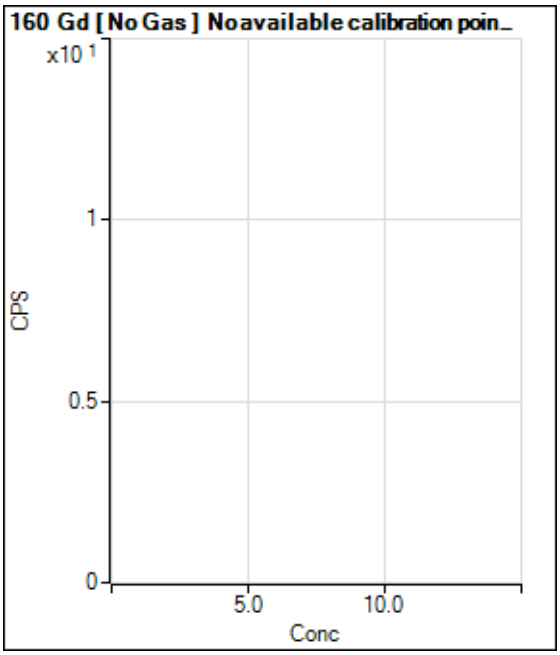


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			54.45		P	46.8
2	☐			51.11		P	15.1
3	☐			77.78		P	13.1
4	☐			94.45		P	11.3
5	☐			135.56		P	15.0
6	☐			215.56		P	11.4
7	☐			382.23		P	15.4
8	☐			550.02		P	6.7

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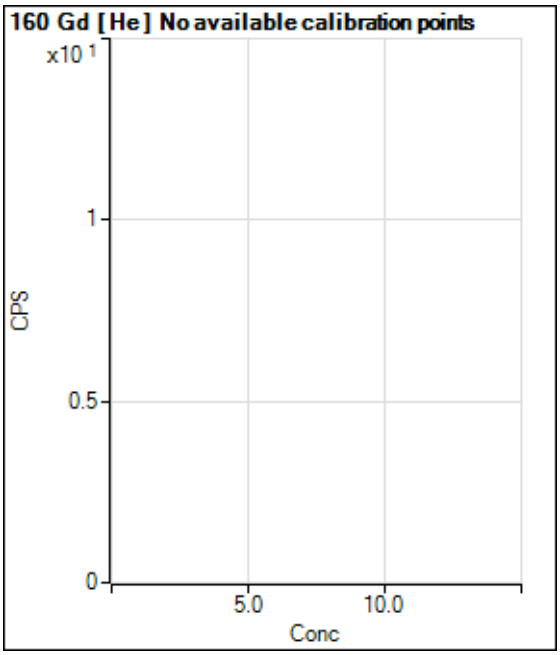


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			5.55		P	69.3
4	☐			3.33		P	173.
5	☐			15.56		P	75.3
6	☐			26.67		P	33.1
7	☐			53.34		P	28.6
8	☐			177.78		P	8.7

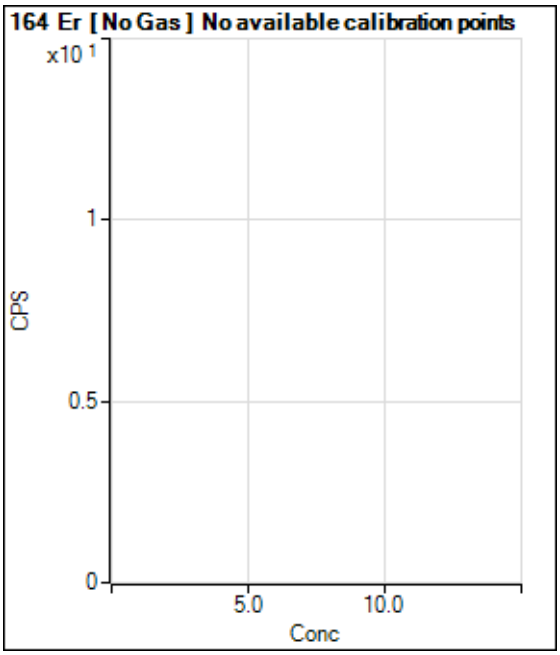


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			90.00		P	3.7
2	☐			94.45		P	4.1
3	☐			87.78		P	5.8
4	☐			85.56		P	29.2
5	☐			121.11		P	15.2
6	☐			125.56		P	10.1
7	☐			248.89		P	7.4
8	☐			531.13		P	5.1

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Inst Id :P8

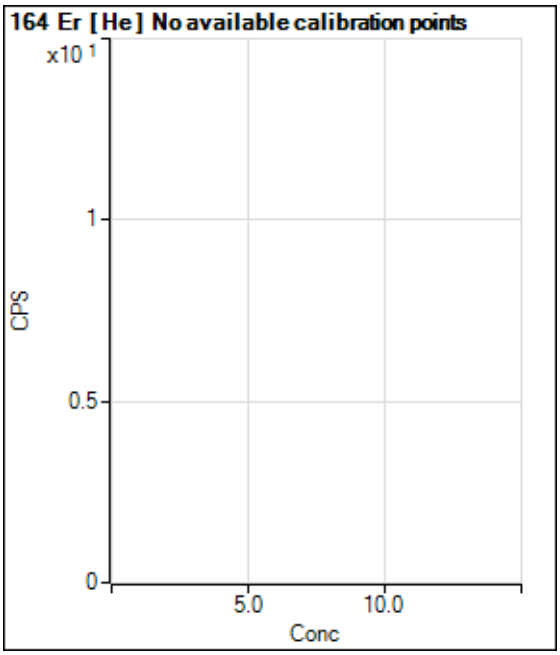


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			17.78		P	39.0
2	☐			10.00		P	66.7
3	☐			17.78		P	47.2
4	☐			27.78		P	48.5
5	☐			32.22		P	26.0
6	☐			53.33		P	16.5
7	☐			50.00		P	43.7
8	☐			188.89		P	22.5

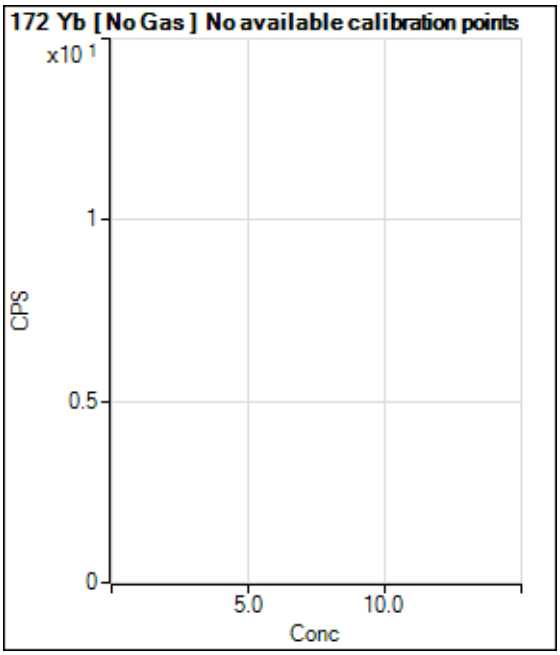


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			90.00		P	20.6
2	☐			103.33		P	9.7
3	☐			97.78		P	11.0
4	☐			111.12		P	6.2
5	☐			146.67		P	12.7
6	☐			181.11		P	10.5
7	☐			305.56		P	20.9
8	☐			587.80		P	10.4

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

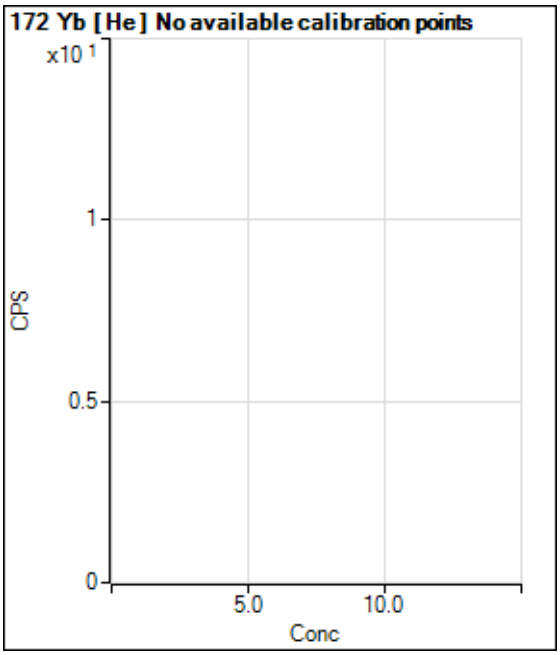


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	20.4
2	☐			22.22		P	43.3
3	☐			37.78		P	5.1
4	☐			41.11		P	24.8
5	☐			32.22		P	12.0
6	☐			53.33		P	22.5
7	☐			66.67		P	13.2
8	☐			198.89		P	13.4

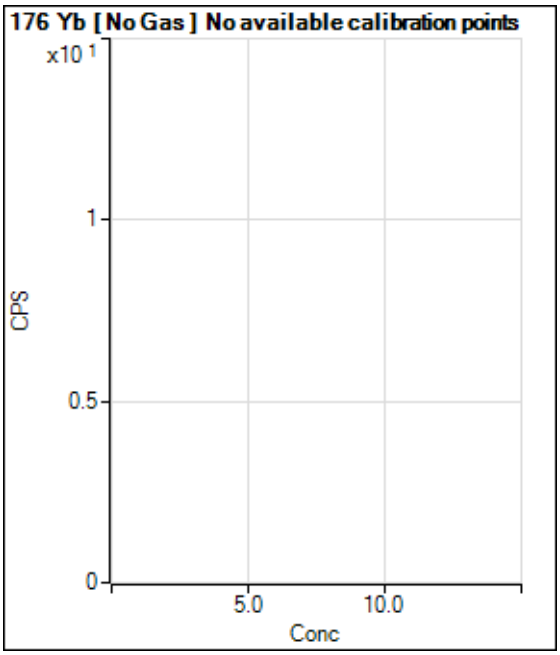


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1	☐			90.00		P	19.6
2	☐			113.34		P	10.2
3	☐			110.00		P	21.0
4	☐			113.33		P	24.1
5	☐			156.67		P	25.8
6	☐			193.34		P	1.7
7	☐			264.45		P	16.0
8	☐			733.36		P	13.6

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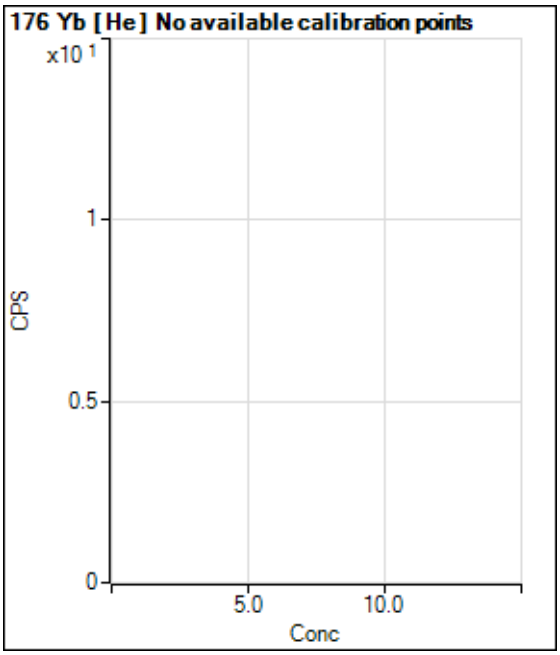


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			43.33		P	50.4
2	☐			31.11		P	40.6
3	☐			37.78		P	10.2
4	☐			66.67		P	20.0
5	☐			57.78		P	24.0
6	☐			71.11		P	9.8
7	☐			126.67		P	11.5
8	☐			272.23		P	16.3

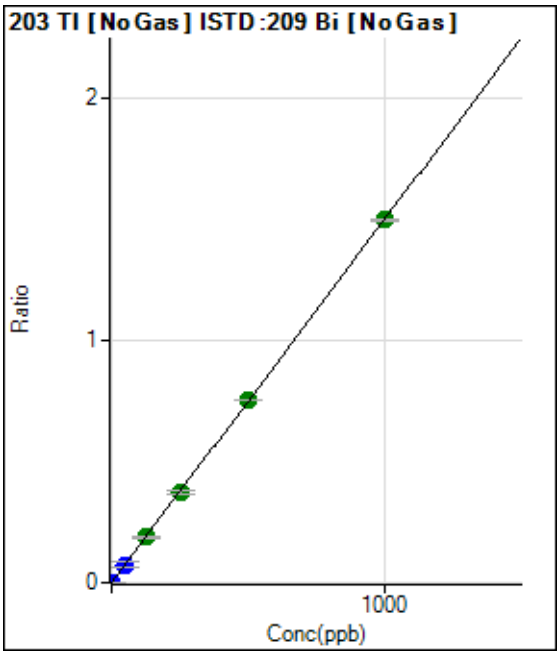


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1	☐			2609.18		P	3.1
2	☐			2823.67		P	7.3
3	☐			6109.24		P	8.9
4	☐			11246.00		P	1.8
5	☐			19780.43		P	0.7
6	☐			37654.63		P	0.7
7	☐			72126.58		P	0.4
8	☐			2573.61		P	1.9

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			448.90		P	7.0
2	☐			376.68		P	9.0
3	☐			1573.44		P	4.8
4	☐			3407.14		P	2.6
5	☐			6227.08		P	0.9
6	☐			12201.27		P	0.4
7	☐			23659.02		P	0.5
8	☐			491.13		P	3.1

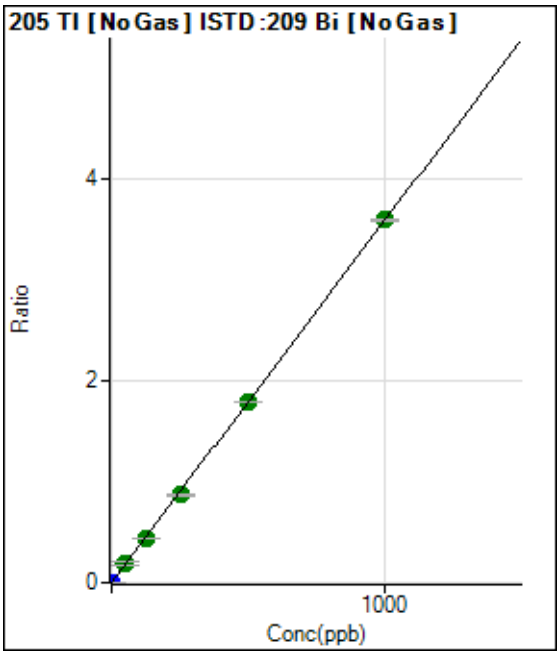


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215.56	0.0000	P	13.8
2	☐	1.000	0.912	16567.33	0.0014	P	12.4
3	☐	50.000	49.996	806195.19	0.0748	P	22.8
4	☐	125.000	124.611	2086149.92	0.1865	A	0.7
5	☐	250.000	248.976	4159210.95	0.3726	A	2.9
6	☐	500.000	502.629	8163748.56	0.7522	A	0.3
7	☐	1000.000	998.990	15900301.15	1.4950	A	0.5
8	☐			1649.02	0.0002	P	24.5

y = 0.0015 * x + 1.8837E-005
R = 1.0000
DL = 0.005209

Weight: <None>
Min Conc: 0

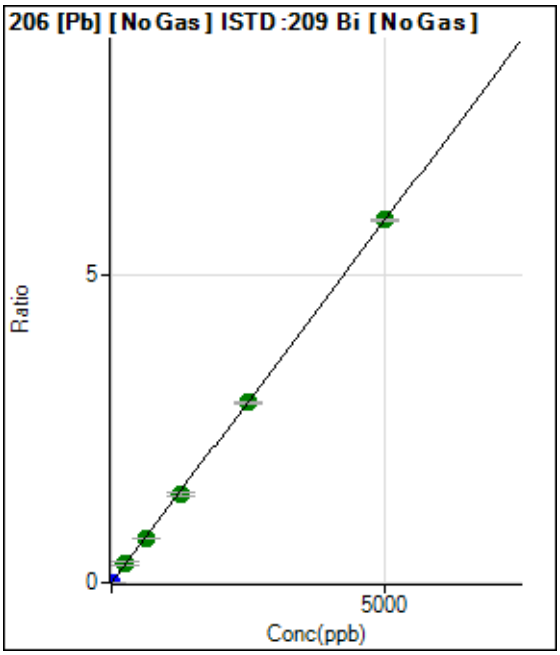
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	558.91	0.0000	P	5.7
2	☐	1.000	0.912	39798.70	0.0033	P	11.6
3	☐	50.000	52.859	2046031.91	0.1899	A	22.6
4	☐	125.000	123.174	4948944.23	0.4424	A	0.5
5	☐	250.000	242.345	9716669.09	0.8704	A	2.4
6	☐	500.000	498.758	19441106.65	1.7912	A	0.5
7	☐	1000.000	1002.620	38297558.04	3.6007	A	0.4
8	☐			3905.11	0.0004	P	25.0

y = 0.0036 * x + 4.8903E-005
R = 1.0000
DL = 0.00232

Weight: <None>
Min Conc: 0

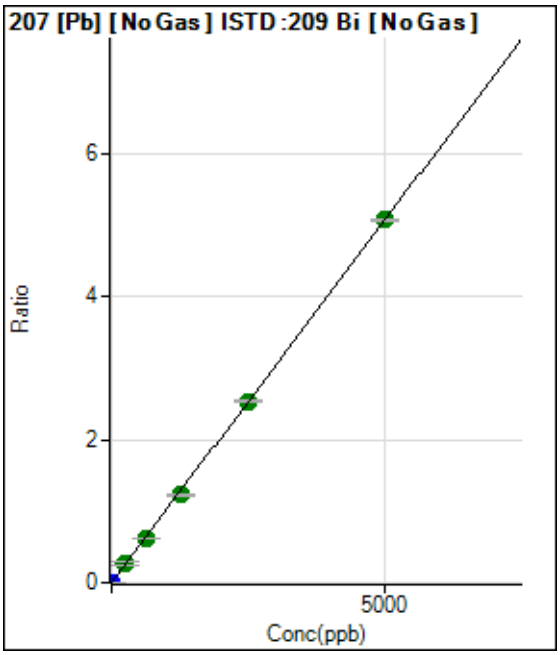


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1062.28	0.0001	P	4.1
2	☐	1.000	0.935	14256.80	0.0012	P	13.9
3	☐	250.000	267.997	3397509.98	0.3152	A	22.5
4	☐	625.000	613.579	8071761.55	0.7216	A	1.1
5	☐	1250.000	1220.870	16027709.62	1.4357	A	2.5
6	☐	2500.000	2487.584	31749724.25	2.9252	A	0.4
7	☐	5000.000	5014.018	62711051.29	5.8961	A	0.8
8	☐			16784.29	0.0019	P	4.9

y = 0.0012 * x + 9.2885E-005
R = 1.0000
DL = 0.009674

Weight: <None>
Min Conc: 0

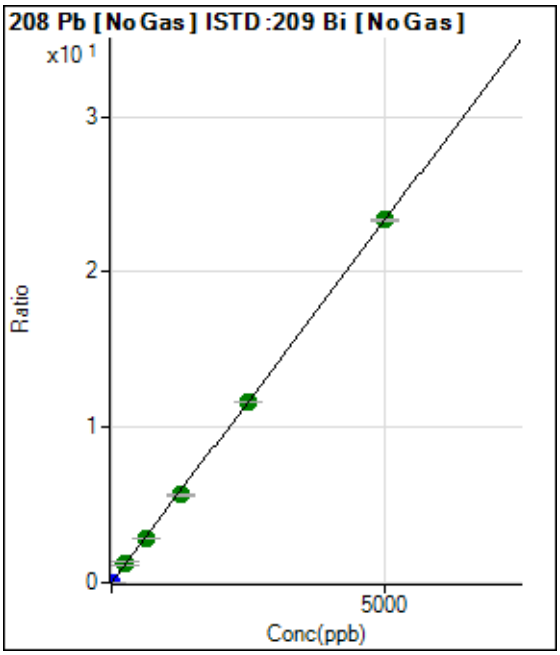
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	908.93	0.0001	P	5.4
2	☐	1.000	0.935	12292.58	0.0010	P	13.5
3	☐	250.000	265.365	2896707.46	0.2691	A	23.5
4	☐	625.000	616.552	6993251.15	0.6252	A	0.8
5	☐	1250.000	1213.709	13738785.35	1.2306	A	2.1
6	☐	2500.000	2501.313	27525907.37	2.5360	A	1.4
7	☐	5000.000	5008.704	54011532.53	5.0781	A	0.2
8	☐			14135.65	0.0016	P	6.6

y = 0.0010 * x + 7.9526E-005
R = 1.0000
DL = 0.0127

Weight: <None>
Min Conc: 0

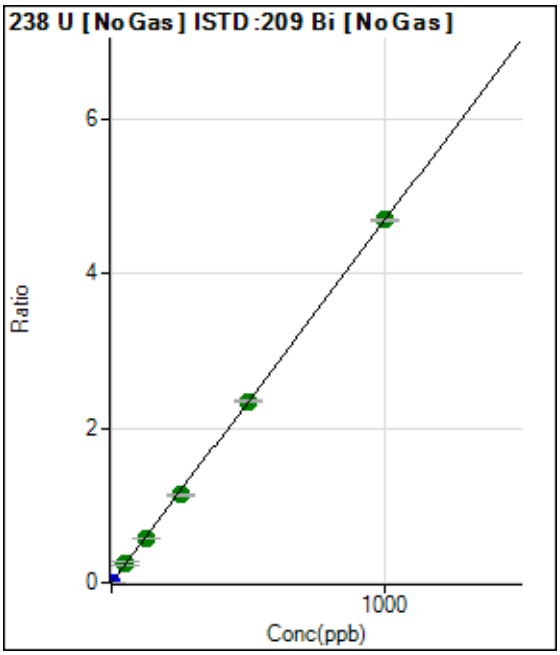


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4286.99	0.0004	P	1.5
2	☐	1.000	0.937	56702.25	0.0047	P	13.0
3	☐	250.000	265.710	13336986.44	1.2385	A	23.1
4	☐	625.000	615.785	32103082.99	2.8698	A	0.5
5	☐	1250.000	1218.612	63396317.25	5.6789	A	2.5
6	☐	2500.000	2498.850	126387681.1	11.6446	A	0.8
7	☐	5000.000	5008.789	248255109.6	23.3404	A	0.3
8	☐			65575.33	0.0075	P	6.2

y = 0.0047 * x + 3.7501E-004
R = 1.0000
DL = 0.003518

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	25.8
2	☐	1.000	0.919	51660.18	0.0043	P	11.0
3	☐	50.000	52.745	2659492.56	0.2472	A	23.8
4	☐	125.000	121.930	6393753.58	0.5715	A	0.3
5	☐	250.000	242.107	12668346.20	1.1349	A	2.8
6	☐	500.000	500.429	25460291.84	2.3457	A	1.3
7	☐	1000.000	1002.006	49955837.03	4.6968	A	0.4
8	☐			2402.50	0.0003	P	38.8

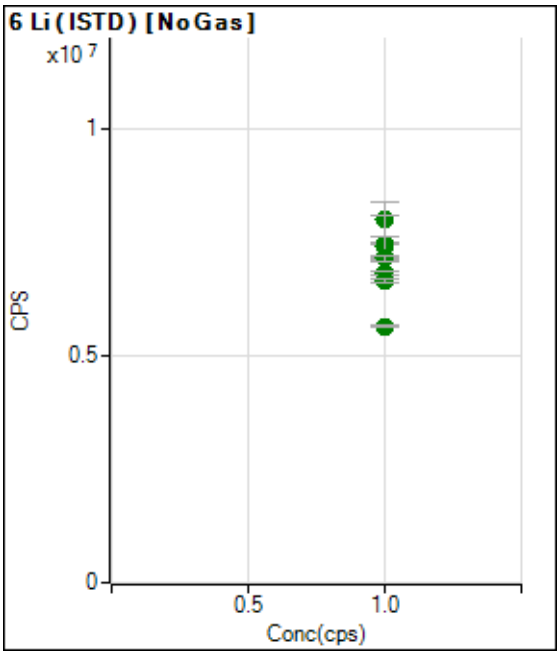
y = 0.0047 * x + 5.8405E-006

R = 1.0000

DL = 0.0009635

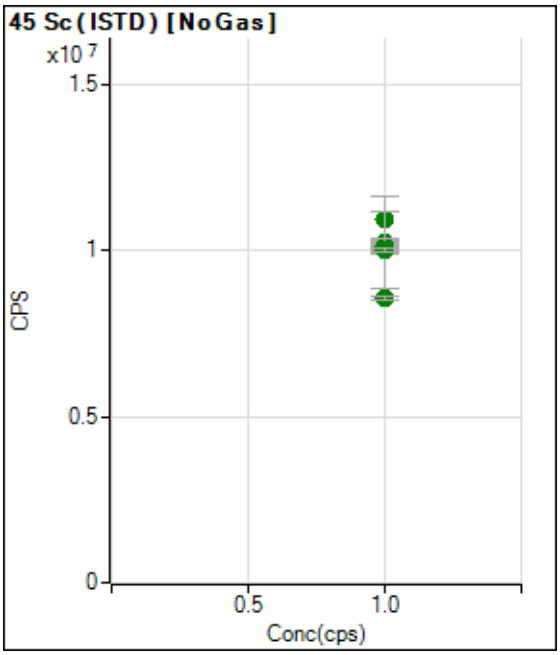
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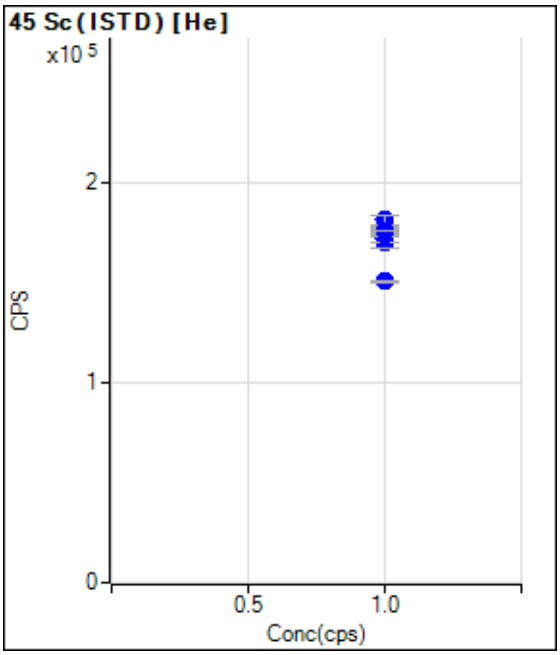


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1	☐	1.000		7459732.39		A	0.9
2	☐	1.000		7983787.46		A	9.5
3	☐	1.000		7386590.49		A	18.4
4	☐	1.000		7133979.04		A	0.9
5	☐	1.000		7139633.91		A	2.1
6	☐	1.000		6812729.57		A	1.4
7	☐	1.000		6635621.65		A	1.3
8	☐	1.000		5638948.47		A	0.4

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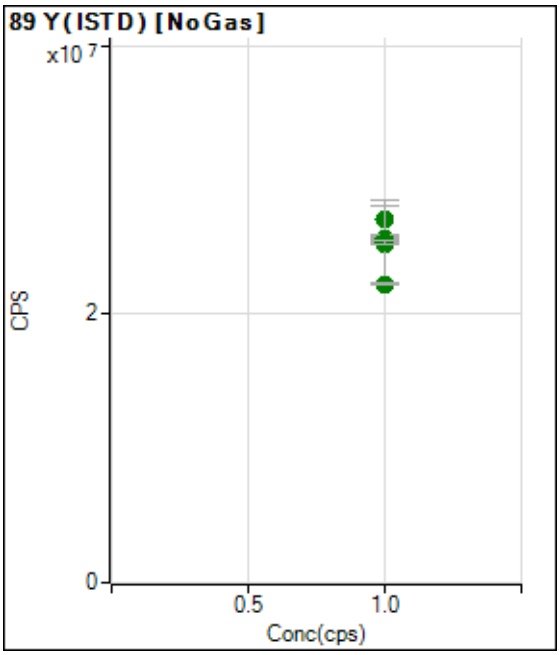


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1	☐	1.000		10215678.80		A	0.9
2	☐	1.000		10906780.81		A	12.6
3	☐	1.000		9986571.66		A	22.9
4	☐	1.000		10066808.04		A	1.2
5	☐	1.000		10109309.71		A	4.5
6	☐	1.000		9995291.87		A	0.7
7	☐	1.000		9989874.44		A	1.0
8	☐	1.000		8576069.11		A	1.5

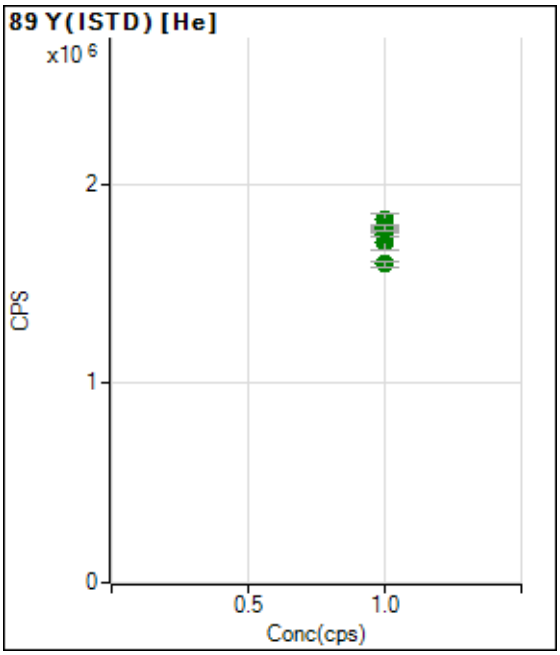


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1	☐	1.000		177177.94		P	0.7
2	☐	1.000		170154.72		P	3.7
3	☐	1.000		181391.97		P	2.8
4	☐	1.000		174445.88		P	0.6
5	☐	1.000		172557.11		P	2.3
6	☐	1.000		173584.66		P	0.5
7	☐	1.000		176143.78		P	0.3
8	☐	1.000		150625.04		P	0.4

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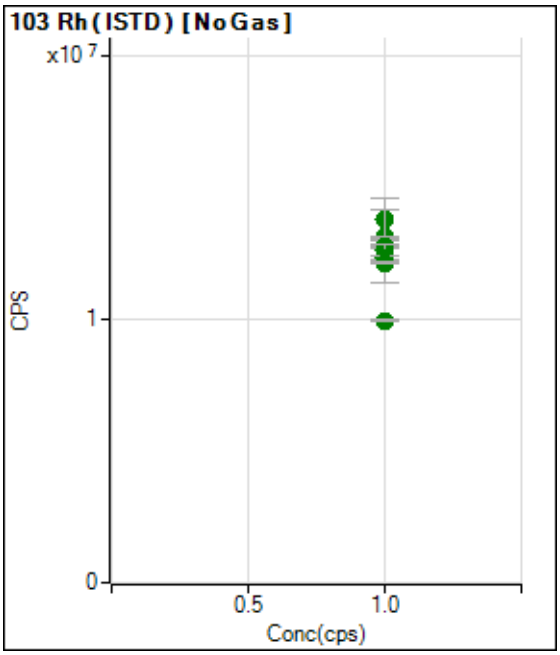


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1	☐	1.000		25607494.06		A	1.3
2	☐	1.000		27007205.71		A	10.6
3	☐	1.000		25184454.49		A	22.7
4	☐	1.000		25586738.23		A	1.8
5	☐	1.000		25536009.90		A	2.4
6	☐	1.000		25394231.01		A	0.5
7	☐	1.000		25367367.68		A	0.9
8	☐	1.000		22255904.67		A	1.0

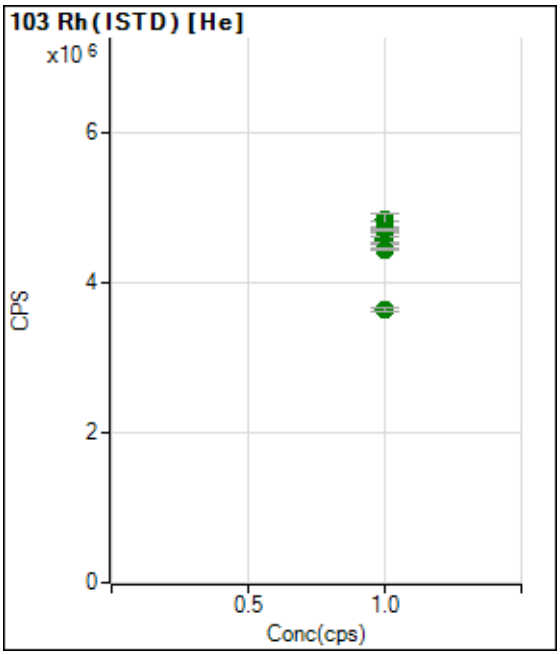


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1	☐	1.000		1793651.76		A	0.2
2	☐	1.000		1714019.75		A	4.7
3	☐	1.000		1822027.44		A	3.5
4	☐	1.000		1786273.90		A	0.9
5	☐	1.000		1774498.18		A	2.3
6	☐	1.000		1749402.35		A	1.1
7	☐	1.000		1780635.84		A	1.4
8	☐	1.000		1601540.60		A	1.7

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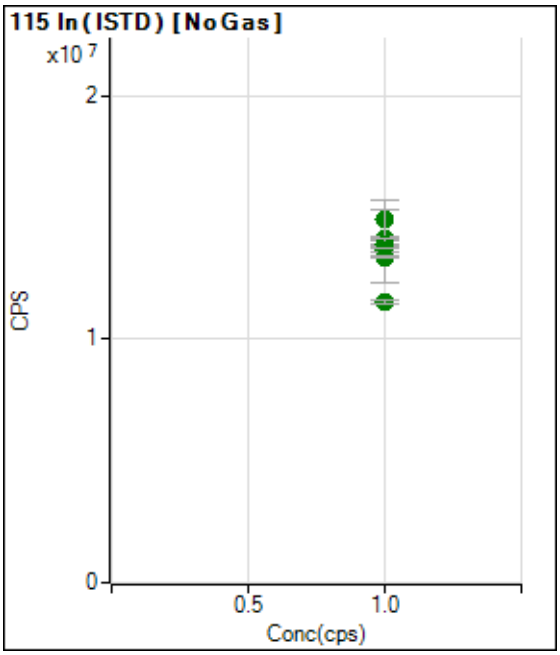


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1	☐	1.000		13112927.72		A	0.8
2	☐	1.000		13778951.32		A	11.6
3	☐	1.000		12763104.67		A	21.6
4	☐	1.000		12770838.28		A	0.6
5	☐	1.000		12627750.65		A	3.2
6	☐	1.000		12307176.35		A	1.2
7	☐	1.000		12159744.12		A	0.5
8	☐	1.000		9958344.92		A	0.4

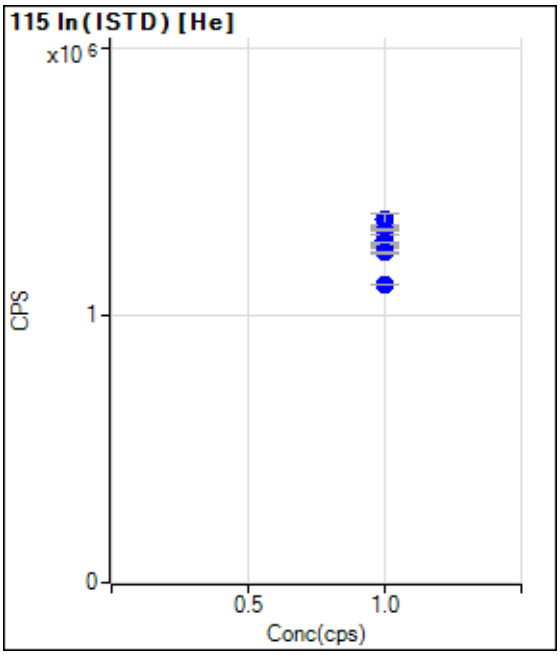


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1	☐	1.000		4815406.70		A	0.1
2	☐	1.000		4589171.32		A	3.7
3	☐	1.000		4839513.92		A	3.8
4	☐	1.000		4702677.01		A	0.9
5	☐	1.000		4562998.72		A	2.6
6	☐	1.000		4519323.44		A	0.7
7	☐	1.000		4446710.18		A	0.7
8	☐	1.000		3640904.29		A	1.4

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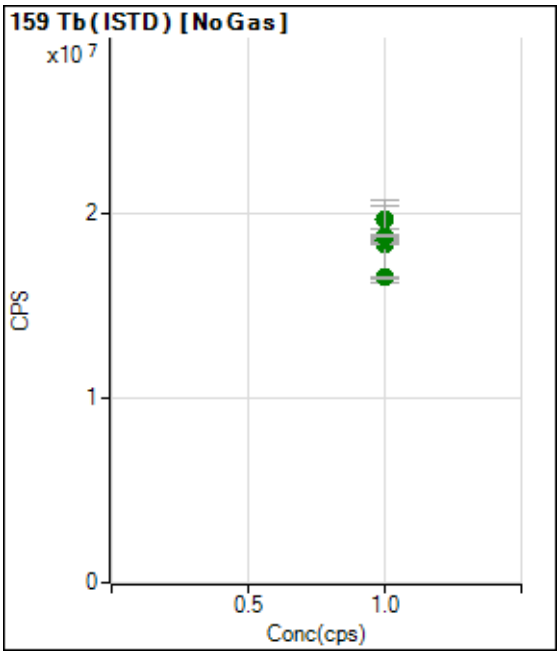


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2	☐	1.000		14886761.58		A	11.1
3	☐	1.000		13814483.15		A	22.1
4	☐	1.000		13844106.07		A	0.6
5	☐	1.000		13906681.82		A	3.1
6	☐	1.000		13649216.15		A	0.6
7	☐	1.000		13372914.04		A	0.1
8	☐	1.000		11520172.17		A	1.6

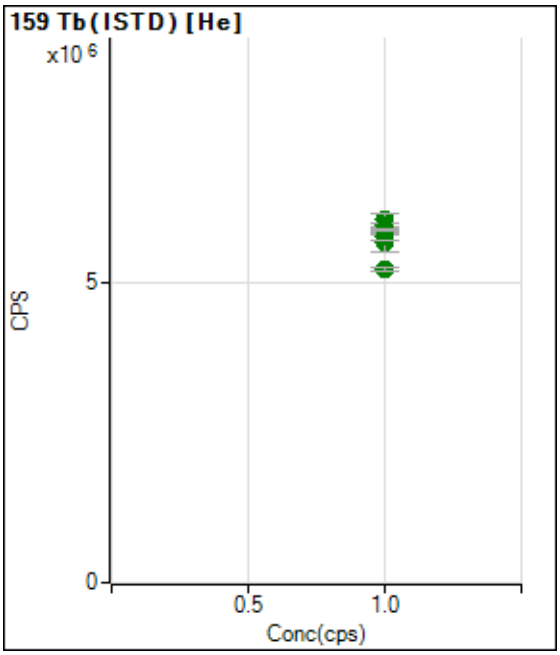


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1329786.87		P	0.3
2	☐	1.000		1278726.84		P	4.0
3	☐	1.000		1355989.41		P	3.3
4	☐	1.000		1317956.90		P	0.6
5	☐	1.000		1277018.56		P	3.2
6	☐	1.000		1270093.19		P	0.4
7	☐	1.000		1233218.46		P	0.7
8	☐	1.000		1114535.32		P	0.3

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Inst Id :P8

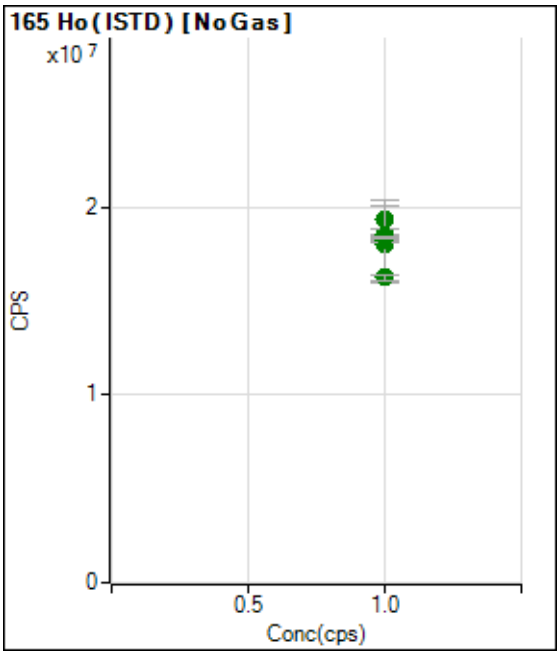


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1	☐	1.000		18562840.97		A	0.2
2	☐	1.000		19671785.96		A	11.0
3	☐	1.000		18389041.25		A	22.5
4	☐	1.000		18547023.34		A	1.0
5	☐	1.000		18777118.19		A	4.0
6	☐	1.000		18771333.89		A	0.2
7	☐	1.000		18814011.80		A	0.2
8	☐	1.000		16528051.70		A	0.8

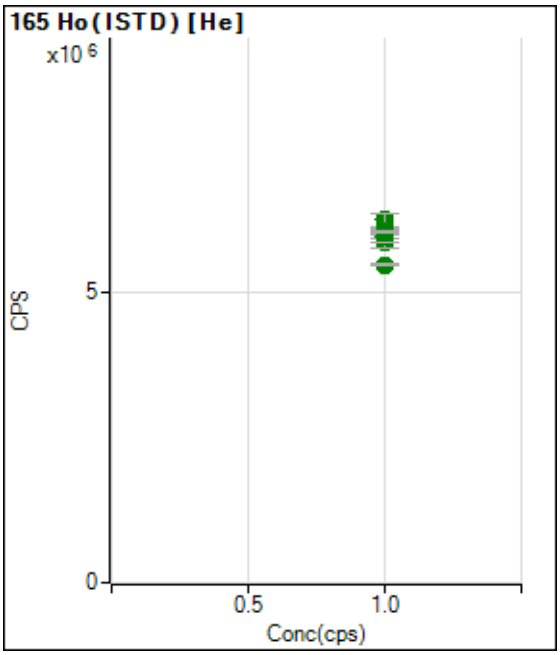


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5831717.55		A	0.8
2	☐	1.000		5654195.54		A	5.2
3	☐	1.000		6033230.33		A	3.4
4	☐	1.000		5932109.08		A	1.3
5	☐	1.000		5767622.41		A	2.7
6	☐	1.000		5846425.96		A	1.4
7	☐	1.000		5876438.73		A	0.5
8	☐	1.000		5208407.49		A	1.4

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
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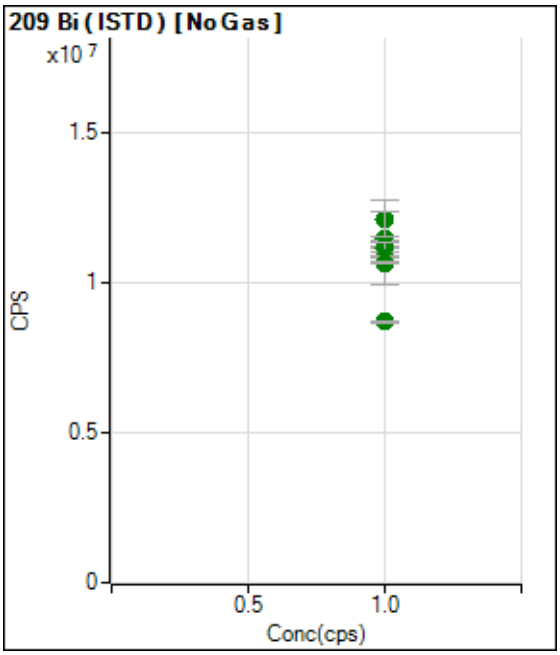


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18381769.86		A	1.2
2	☐	1.000		19321880.55		A	11.3
3	☐	1.000		18025467.51		A	22.8
4	☐	1.000		18229490.42		A	1.1
5	☐	1.000		18520005.00		A	3.9
6	☐	1.000		18427440.00		A	0.6
7	☐	1.000		18419065.14		A	0.5
8	☐	1.000		16248267.54		A	1.9

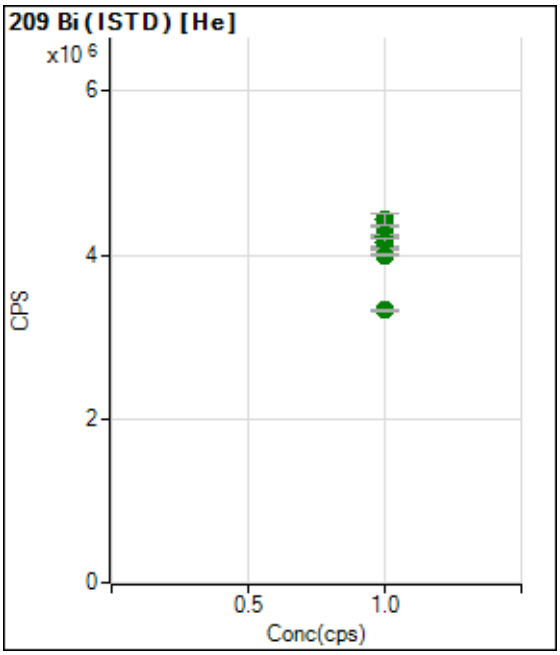


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6065873.11		A	0.9
2	☐	1.000		5834054.50		A	2.8
3	☐	1.000		6232456.16		A	3.8
4	☐	1.000		6060756.51		A	1.6
5	☐	1.000		5953029.98		A	3.9
6	☐	1.000		6016991.09		A	1.3
7	☐	1.000		6029564.01		A	0.6
8	☐	1.000		5462861.24		A	0.4

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11433062.74		A	1.2
2	☐	1.000		12082973.43		A	11.4
3	☐	1.000		11135984.62		A	21.5
4	☐	1.000		11186618.30		A	0.8
5	☐	1.000		11168754.83		A	2.8
6	☐	1.000		10853558.45		A	0.4
7	☐	1.000		10636157.55		A	0.5
8	☐	1.000		8688354.59		A	1.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4354462.26		A	0.7
2	☐	1.000		4166908.44		A	3.0
3	☐	1.000		4429983.23		A	3.3
4	☐	1.000		4233329.28		A	1.1
5	☐	1.000		4146277.23		A	3.1
6	☐	1.000		4071084.87		A	0.8
7	☐	1.000		3997771.61		A	0.8
8	☐	1.000		3331441.27		A	0.8

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8
ClientSampleId :TUNE002

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8012025MS-02.b
Acq. Date-Time	2025-01-20 12:26:15
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		33447	334467.46			0.482	5.000
24		704515	7045151.04			0.739	5.000
25		95870	958697.78			0.885	5.000
26		111708	1117077.84			0.856	5.000
59		161821	1618214.42			0.603	5.000
113		18731	187308.65			0.390	5.000
115		249986	2499862.53			0.526	5.000
206		59241	592405.01			0.674	5.000
207		52013	520130.45			0.621	5.000
208		132683	1326829.19			0.802	5.000
220		0	3.40			16.109	

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	33660	33534	33290	33465	33286
24	701916	706501	706711	696952	710496
25	94948	96448	96491	94934	96527
26	111388	112163	112023	110229	112736
59	160424	161818	162992	161458	162415
113	18790	18764	18793	18679	18629
115	250918	251776	248712	248969	249557
206	58849	59280	58928	59286	59860
207	51475	52072	51995	52264	52260
208	133116	134270	131592	132537	131900

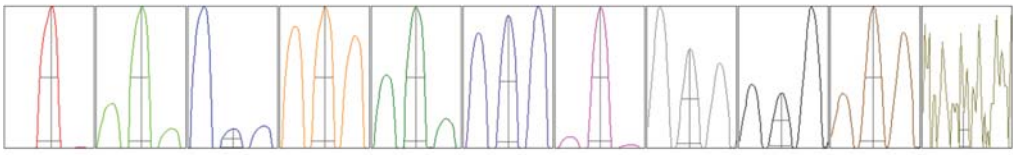
Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8
ClientSampleId :TUNE002

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	60199.98	9.10	8.90 - 9.10	
24	1231286.47	24.05	23.90 - 24.10	
25	165367.63	25.05	24.90 - 25.10	
26	192754.31	26.05	25.90 - 26.10	
59	286377.75	59.00	58.90 - 59.10	
113	36110.68	113.05	112.90 - 113.10	
115	482281.61	115.05	114.90 - 115.10	
206	112369.81	205.95	205.90 - 206.10	
207	96659.15	206.95	206.90 - 207.10	
208	248453.05	207.95	207.90 - 208.10	
220	0.20	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.775	0.900	
24	0.61	0.739	0.900	
25	0.61	0.739	0.900	
26	0.62	0.778	0.900	
59	0.60	0.738	0.900	
113	0.55	0.721	0.900	
115	0.55	0.762	0.900	
206	0.55	0.786	0.900	
207	0.55	0.788	0.900	
208	0.54	0.838	0.900	
220	0.33	0.348		

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

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8
ClientSampleId :TUNE002

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.3 V	Deflect	15.0 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-65 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	190 V		

QP Parameters

Mass Gain	102	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	1.4 mm		

EM

Discriminator	4.1 mV	Analog HV	2175 V	Pulse HV	1059 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		26846	268459.86			0.485	
89		20464	204638.82			0.285	
205		32647	326468.52			0.586	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26804	26928	26980	26645	26873
89	20381	20465	20479	20451	20544
205	32976	32589	32485	32556	32629

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.3 V	Deflect	2.4 V

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8
ClientSampleId :TUNE002

US EPA Tune Check Report

Extract 2	-130.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-65 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	102	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	1.4 mm

EM

Discriminator	4.1 mV	Analog HV	2175 V	Pulse HV	1059 V

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.15	-0.20	0.05	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	0.00	0.01	0.00	N/A	ppb
Barium	135-1	0.01	0.00	-0.01	0.00	N/A	ppb
Barium	137-1	0.00	0.01	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	-0.02	0.00	N/A	ppb
Cadmium	106-1	0.47	-0.11	-0.35	0.00	N/A	ppb
Cadmium	111-1	0.01	0.00	0.00	0.00	N/A	ppb
Calcium	43-1	-0.90	0.02	0.88	0.00	N/A	ppb
Calcium	44-1	-0.28	0.09	0.19	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	-0.01	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.02	0.00	0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	-0.54	-0.16	0.71	0.00	N/A	ppb
Iron	56-2	7.39	-3.63	-3.76	0.00	N/A	ppb
Iron	57-2	-0.26	0.50	-0.24	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:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	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	0.63	-0.61	-0.02	0.00	N/A	ppb
Manganese	55-2	-0.02	0.00	0.02	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.01	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	0.02	0.01	0.00	N/A	ppb
Phosphorus	31-2	-22.46	-21.72	-26.13	-23.44		ppb
Potassium	39-2	0.98	1.49	-2.47	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.12	0.16	-0.03	0.00	N/A	ppb
Selenium	77-2	0.58	-0.29	-0.29	0.00	N/A	ppb
Selenium	78-2	-0.50	0.25	0.25	0.00	N/A	ppb
Silicon	28-1	-0.15	0.06	0.09	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	0.51	-0.44	-0.07	0.00	N/A	ppb
Strontium	86-1	0.00	0.00	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	46.28	108.97	119.05	91.44	43.12	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	-0.02	0.03	0.00	N/A	ppb
Titanium	47-1	-0.01	0.02	-0.01	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	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	-0.07	-0.03	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.59	21.82	20.02	20.81	4.42	ppb
Antimony	121-1	1.73	2.07	2.12	1.97	10.87	ppb
Arsenic	75-2	1.36	1.22	1.10	1.23	10.44	ppb
Barium	135-1	8.60	10.66	10.77	10.01	12.23	ppb
Barium	137-1	8.61	10.33	10.67	9.87	11.20	ppb
Beryllium	9-1	0.88	1.01	1.07	0.99	9.54	ppb
Bismuth	209-1				106		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	1.03	1.09	1.03	1.05	3.41	ppb
Cadmium	106-1	0.78	1.05	1.18	1.00	20.46	ppb
Cadmium	111-1	0.93	1.09	1.15	1.06	10.77	ppb
Calcium	43-1	425.41	539.23	543.45	502.70	13.32	ppb
Calcium	44-1	426.48	533.64	546.02	502.05	13.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.12	2.40	2.20	2.24	6.34	ppb
Cobalt	59-2	1.13	1.25	1.10	1.16	6.69	ppb
Copper	63-2	2.36	2.49	2.32	2.39	3.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				96		%
Indium	115-1				105		%
Indium	115-2				96		%
Iron	54-2	53.71	62.20	55.07	56.99	8.00	ppb
Iron	56-2	49.40	53.35	50.56	51.10	3.97	ppb
Iron	57-2	56.40	57.67	53.30	55.79	4.03	ppb
Krypton	83-1						cps
Lead	206-1	0.78	0.98	1.05	0.94	15.11	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.78	0.99	1.04	0.94	14.63	ppb
Lead	208-1	0.79	0.98	1.04	0.94	14.17	ppb
Lithium	6-1				107		%
Magnesium	24-2	602.64	653.56	611.51	622.57	4.37	ppb
Manganese	55-2	1.10	1.16	1.06	1.11	4.10	ppb
Molybdenum	94-1	5.06	6.04	6.24	5.78	10.97	ppb
Molybdenum	95-1	4.22	5.06	5.27	4.85	11.52	ppb
Molybdenum	96-1	4.22	5.14	5.31	4.89	11.95	ppb
Molybdenum	97-1	4.28	5.13	5.39	4.93	11.81	ppb
Molybdenum	98-1	4.18	5.09	5.21	4.83	11.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.15	1.24	1.04	1.14	8.60	ppb
Phosphorus	31-2	11.68	33.93	24.70	23.44	47.70	ppb
Potassium	39-2	510.81	561.29	532.31	534.81	4.74	ppb
Rhodium	103-1				105		%
Rhodium	103-2				95		%
Scandium	45-1				107		%
Scandium	45-2				96		%
Selenium	82-1	4.33	5.10	5.53	4.99	12.19	ppb
Selenium	77-2	12.08	9.26	4.09	8.47	47.85	ppb
Selenium	78-2	5.93	7.29	6.89	6.70	10.38	ppb
Silicon	28-1	-0.30	1.93	2.32	1.32	107.23	ppb
Silver	107-1	0.87	1.03	1.10	1.00	11.66	ppb
Silver	109-1	0.84	1.05	1.08	0.99	13.20	ppb
Sodium	23-2	548.73	596.15	559.20	568.03	4.39	ppb
Strontium	86-1	0.81	0.97	1.05	0.94	13.35	ppb
Strontium	88-1	0.80	0.97	1.04	0.94	12.69	ppb
Sulfur	34-1	-893.48	194.19	424.97	-91.44		ppb
Terbium	159-1				106		%
Terbium	159-2				97		%
Thallium	203-1	0.78	0.97	0.99	0.91	12.60	ppb
Thallium	205-1	0.79	0.97	0.98	0.91	11.75	ppb
Tin	118-1	4.30	5.21	5.48	5.00	12.34	ppb
Titanium	47-1	4.33	5.19	5.40	4.97	11.42	ppb
Uranium	238-1	0.80	0.96	0.99	0.92	11.05	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.34	5.61	5.50	5.48	2.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				96		%
Zinc	66-2	5.87	6.68	6.13	6.22	6.68	ppb
Zirconium	90-1	0.85	1.00	1.06	0.97	11.31	ppb
Zirconium	91-1	0.82	1.01	1.05	0.96	12.61	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	944.12	944.93	943.63	944.23	0.07	ppb
Antimony	121-1	40.50	65.28	52.23	52.67	23.53	ppb
Arsenic	75-2	49.76	48.31	49.26	49.11	1.50	ppb
Barium	135-1	198.86	327.93	256.74	261.18	24.75	ppb
Barium	137-1	210.91	345.09	271.69	275.90	24.35	ppb
Beryllium	9-1	41.91	62.24	51.63	51.92	19.59	ppb
Bismuth	209-1				97		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	43.48	72.70	54.70	56.96	25.87	ppb
Cadmium	106-1	43.57	69.94	56.95	56.82	23.21	ppb
Cadmium	111-1	41.32	66.94	54.53	54.26	23.61	ppb
Calcium	43-1	4003.77	6569.23	5293.19	5288.73	24.25	ppb
Calcium	44-1	4185.98	6825.84	5334.86	5448.90	24.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	47.28	47.74	48.54	47.86	1.33	ppb
Cobalt	59-2	48.25	49.39	49.80	49.15	1.63	ppb
Copper	63-2	525.62	528.77	527.64	527.34	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				103		%
Indium	115-1				98		%
Indium	115-2				102		%
Iron	54-2	2475.91	2539.70	2542.21	2519.27	1.49	ppb
Iron	56-2	2548.51	2574.34	2592.57	2571.81	0.86	ppb
Iron	57-2	2424.11	2451.32	2471.77	2449.07	0.98	ppb
Krypton	83-1						cps
Lead	206-1	208.90	329.53	265.56	268.00	22.52	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	205.42	329.83	260.85	265.37	23.49	ppb
Lead	208-1	205.54	328.31	263.28	265.71	23.12	ppb
Lithium	6-1				99		%
Magnesium	24-2	5388.85	5684.43	5535.20	5536.16	2.67	ppb
Manganese	55-2	478.38	485.15	485.72	483.08	0.84	ppb
Molybdenum	94-1	417.97	672.54	556.99	549.17	23.21	ppb
Molybdenum	95-1	415.25	664.90	544.57	541.57	23.05	ppb
Molybdenum	96-1	412.62	672.79	542.35	542.59	23.98	ppb
Molybdenum	97-1	413.84	662.95	544.32	540.37	23.06	ppb
Molybdenum	98-1	413.52	655.45	537.42	535.46	22.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	48.77	49.62	49.77	49.38	1.09	ppb
Phosphorus	31-2	935.86	1042.14	974.01	984.00	5.47	ppb
Potassium	39-2	2277.51	2326.80	2317.06	2307.12	1.13	ppb
Rhodium	103-1				97		%
Rhodium	103-2				101		%
Scandium	45-1				98		%
Scandium	45-2				102		%
Selenium	82-1	42.91	64.19	55.73	54.28	19.74	ppb
Selenium	77-2	71.55	53.47	52.77	59.26	17.96	ppb
Selenium	78-2	54.85	50.91	52.85	52.87	3.72	ppb
Silicon	28-1	41.48	74.58	57.79	57.95	28.56	ppb
Silver	107-1	41.63	68.15	54.79	54.86	24.17	ppb
Silver	109-1	42.42	69.35	54.94	55.57	24.25	ppb
Sodium	23-2	5027.12	5167.05	5181.89	5125.35	1.67	ppb
Strontium	86-1	39.58	63.47	51.67	51.57	23.16	ppb
Strontium	88-1	41.74	67.69	54.67	54.70	23.72	ppb
Sulfur	34-1	33.82	3545.78	1579.49	1719.69	102.35	ppb
Terbium	159-1				99		%
Terbium	159-2				103		%
Thallium	203-1	38.79	61.58	49.62	50.00	22.80	ppb
Thallium	205-1	41.06	64.98	52.54	52.86	22.64	ppb
Tin	118-1	40.78	67.05	52.61	53.48	24.60	ppb
Titanium	47-1	425.25	685.59	539.70	550.18	23.72	ppb
Uranium	238-1	40.12	65.18	52.93	52.74	23.75	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	46.97	46.91	47.62	47.17	0.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				102		%
Zinc	66-2	489.64	504.58	501.67	498.63	1.59	ppb
Zirconium	90-1	38.42	62.78	50.52	50.57	24.09	ppb
Zirconium	91-1	38.49	62.91	50.92	50.77	24.05	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2366.98	2394.03	2388.86	2383.29	0.60	ppb
Antimony	121-1	125.60	129.18	133.94	129.57	3.23	ppb
Arsenic	75-2	125.21	125.19	126.38	125.59	0.54	ppb
Barium	135-1	626.88	650.27	661.01	646.05	2.70	ppb
Barium	137-1	624.41	641.63	644.21	636.75	1.69	ppb
Beryllium	9-1	125.28	123.42	124.73	124.48	0.77	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	133.16	136.07	133.67	134.30	1.16	ppb
Cadmium	106-1	130.01	133.98	134.44	132.81	1.84	ppb
Cadmium	111-1	122.04	126.15	127.22	125.14	2.18	ppb
Calcium	43-1	11881.91	12221.25	12273.40	12125.52	1.75	ppb
Calcium	44-1	12536.59	12708.48	12676.00	12640.35	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	122.20	122.39	122.88	122.49	0.29	ppb
Cobalt	59-2	124.66	125.81	125.01	125.16	0.47	ppb
Copper	63-2	1335.94	1339.46	1324.20	1333.20	0.60	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	54-2	6434.73	6437.34	6436.82	6436.30	0.02	ppb
Iron	56-2	6576.02	6702.02	6628.23	6635.42	0.95	ppb
Iron	57-2	6278.42	6361.46	6329.76	6323.21	0.66	ppb
Krypton	83-1						cps
Lead	206-1	621.51	611.19	608.04	613.58	1.15	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	621.83	611.54	616.28	616.55	0.84	ppb
Lead	208-1	618.23	612.66	616.47	615.78	0.46	ppb
Lithium	6-1				96		%
Magnesium	24-2	14317.53	14042.55	13926.35	14095.48	1.43	ppb
Manganese	55-2	1320.96	1318.99	1311.38	1317.11	0.38	ppb
Molybdenum	94-1	1207.17	1283.75	1237.13	1242.68	3.11	ppb
Molybdenum	95-1	1213.69	1266.07	1248.34	1242.70	2.14	ppb
Molybdenum	96-1	1223.69	1251.54	1229.86	1235.03	1.18	ppb
Molybdenum	97-1	1204.25	1258.24	1236.06	1232.85	2.20	ppb
Molybdenum	98-1	1203.18	1264.33	1244.45	1237.32	2.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	124.32	125.73	126.98	125.68	1.06	ppb
Phosphorus	31-2	2612.47	2529.37	2580.15	2574.00	1.63	ppb
Potassium	39-2	5848.79	5917.52	5919.49	5895.27	0.68	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	124.94	130.83	126.65	127.48	2.38	ppb
Selenium	77-2	122.27	126.72	148.83	132.61	10.73	ppb
Selenium	78-2	140.39	125.26	125.06	130.24	6.75	ppb
Silicon	28-1	131.99	131.96	134.88	132.94	1.26	ppb
Silver	107-1	133.86	136.57	135.12	135.19	1.00	ppb
Silver	109-1	135.01	137.06	136.46	136.18	0.78	ppb
Sodium	23-2	12825.34	12694.27	12951.24	12823.62	1.00	ppb
Strontium	86-1	115.60	120.57	118.42	118.20	2.11	ppb
Strontium	88-1	119.09	125.27	125.52	123.29	2.95	ppb
Sulfur	34-1	2837.94	2960.57	2996.26	2931.59	2.83	ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	125.48	124.61	123.74	124.61	0.70	ppb
Thallium	205-1	123.16	122.54	123.83	123.17	0.52	ppb
Tin	118-1	128.59	131.19	131.58	130.46	1.25	ppb
Titanium	47-1	1241.24	1287.11	1278.16	1268.84	1.92	ppb
Uranium	238-1	121.46	122.21	122.12	121.93	0.33	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	121.56	121.22	121.99	121.59	0.31	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	1265.37	1274.98	1278.22	1272.86	0.52	ppb
Zirconium	90-1	122.83	126.90	124.54	124.76	1.64	ppb
Zirconium	91-1	113.67	119.40	117.64	116.90	2.51	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4628.85	4889.32	4714.52	4744.23	2.80	ppb
Antimony	121-1	267.53	249.45	244.75	253.91	4.74	ppb
Arsenic	75-2	245.78	257.85	250.49	251.37	2.42	ppb
Barium	135-1	1338.02	1237.54	1218.88	1264.81	5.07	ppb
Barium	137-1	1318.27	1236.41	1220.33	1258.34	4.17	ppb
Beryllium	9-1	261.43	256.44	253.68	257.18	1.53	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	272.27	254.48	248.57	258.44	4.77	ppb
Cadmium	106-1	268.14	252.72	249.23	256.70	3.92	ppb
Cadmium	111-1	252.51	238.32	238.41	243.08	3.36	ppb
Calcium	43-1	26424.24	24787.44	24151.06	25120.91	4.67	ppb
Calcium	44-1	26135.20	24672.77	24298.34	25035.44	3.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	239.28	253.04	241.66	244.66	3.01	ppb
Cobalt	59-2	261.04	269.95	257.29	262.76	2.47	ppb
Copper	63-2	2604.94	2713.47	2595.83	2638.08	2.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	54-2	13347.39	14481.74	13311.81	13713.65	4.85	ppb
Iron	56-2	13163.56	13672.85	13146.29	13327.57	2.24	ppb
Iron	57-2	12353.25	13015.08	12570.10	12646.15	2.67	ppb
Krypton	83-1						cps
Lead	206-1	1254.60	1213.28	1194.73	1220.87	2.51	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1243.02	1201.29	1196.81	1213.71	2.10	ppb
Lead	208-1	1252.67	1210.79	1192.38	1218.61	2.54	ppb
Lithium	6-1				96		%
Magnesium	24-2	26827.43	28647.53	27582.58	27685.85	3.30	ppb
Manganese	55-2	2569.74	2719.88	2574.78	2621.47	3.25	ppb
Molybdenum	94-1	2548.08	2488.50	2442.49	2493.02	2.12	ppb
Molybdenum	95-1	2539.31	2487.43	2455.32	2494.02	1.70	ppb
Molybdenum	96-1	2551.42	2450.67	2434.08	2478.73	2.56	ppb
Molybdenum	97-1	2530.44	2447.94	2434.73	2471.04	2.10	ppb
Molybdenum	98-1	2540.70	2477.68	2439.71	2486.03	2.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	243.34	256.96	247.71	249.34	2.79	ppb
Phosphorus	31-2	4885.34	5314.17	5169.45	5122.98	4.26	ppb
Potassium	39-2	12228.78	12886.09	12076.15	12397.01	3.47	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	259.33	252.35	249.65	253.78	1.97	ppb
Selenium	77-2	260.67	284.06	268.56	271.10	4.39	ppb
Selenium	78-2	249.89	241.63	247.23	246.25	1.71	ppb
Silicon	28-1	271.63	251.60	247.06	256.76	5.09	ppb
Silver	107-1	268.75	258.65	249.31	258.90	3.76	ppb
Silver	109-1	277.22	256.54	256.10	263.29	4.58	ppb
Sodium	23-2	25144.09	26651.54	25178.89	25658.17	3.35	ppb
Strontium	86-1	239.38	234.12	231.86	235.12	1.64	ppb
Strontium	88-1	254.16	246.00	242.61	247.59	2.40	ppb
Sulfur	34-1	6417.89	5605.15	5349.17	5790.74	9.64	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	257.35	244.51	245.07	248.98	2.91	ppb
Thallium	205-1	248.43	242.03	236.57	242.34	2.45	ppb
Tin	118-1	268.22	252.87	250.79	257.29	3.70	ppb
Titanium	47-1	2613.99	2464.96	2411.77	2496.91	4.20	ppb
Uranium	238-1	249.96	238.19	238.17	242.11	2.81	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	240.02	252.93	240.91	244.62	2.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	2482.97	2615.18	2504.22	2534.12	2.80	ppb
Zirconium	90-1	253.80	245.96	241.26	247.01	2.56	ppb
Zirconium	91-1	254.24	245.35	243.64	247.74	2.30	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9502.08	9389.69	9470.30	9454.02	0.61	ppb
Antimony	121-1	509.77	509.06	511.14	509.99	0.21	ppb
Arsenic	75-2	510.92	525.47	513.18	516.52	1.52	ppb
Barium	135-1	2481.45	2555.93	2561.89	2533.09	1.77	ppb
Barium	137-1	2503.89	2554.05	2525.29	2527.74	1.00	ppb
Beryllium	9-1	505.53	518.29	517.34	513.72	1.38	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	510.31	518.74	520.64	516.56	1.06	ppb
Cadmium	106-1	504.80	508.56	515.03	509.46	1.02	ppb
Cadmium	111-1	512.44	517.28	518.96	516.23	0.66	ppb
Calcium	43-1	49582.11	50561.53	51397.71	50513.79	1.80	ppb
Calcium	44-1	49211.75	50528.29	51288.64	50342.89	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	522.54	511.15	511.69	515.13	1.25	ppb
Cobalt	59-2	517.84	522.50	517.95	519.43	0.51	ppb
Copper	63-2	5262.03	5120.39	5177.99	5186.80	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				100		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	27583.72	26707.00	26755.12	27015.28	1.82	ppb
Iron	56-2	26402.28	26285.99	25988.25	26225.50	0.81	ppb
Iron	57-2	26165.72	27074.51	25954.45	26398.22	2.25	ppb
Krypton	83-1						cps
Lead	206-1	2475.72	2489.53	2497.51	2487.58	0.44	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2462.12	2524.91	2516.92	2501.31	1.37	ppb
Lead	208-1	2476.75	2508.53	2511.26	2498.85	0.77	ppb
Lithium	6-1				91		%
Magnesium	24-2	55099.89	55013.15	55141.21	55084.75	0.12	ppb
Manganese	55-2	5236.89	5140.11	5120.78	5165.93	1.20	ppb
Molybdenum	94-1	4966.99	5052.00	5046.59	5021.86	0.95	ppb
Molybdenum	95-1	5001.78	5064.26	5030.79	5032.28	0.62	ppb
Molybdenum	96-1	4969.96	5028.13	5021.00	5006.36	0.63	ppb
Molybdenum	97-1	4959.97	4977.57	4967.32	4968.29	0.18	ppb
Molybdenum	98-1	4941.41	5028.40	5016.90	4995.57	0.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	486.28	481.34	486.48	484.70	0.60	ppb
Phosphorus	31-2	10401.83	10364.22	10111.75	10292.60	1.53	ppb
Potassium	39-2	24927.05	24745.01	24403.11	24691.72	1.08	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	502.72	514.14	503.49	506.78	1.26	ppb
Selenium	77-2	475.41	513.87	495.38	494.89	3.89	ppb
Selenium	78-2	518.75	528.52	501.25	516.18	2.68	ppb
Silicon	28-1	516.23	516.20	517.01	516.48	0.09	ppb
Silver	107-1	505.93	521.85	525.56	517.78	2.01	ppb
Silver	109-1	515.77	512.90	526.36	518.34	1.37	ppb
Sodium	23-2	52140.91	51096.07	50351.90	51196.29	1.76	ppb
Strontium	86-1	501.10	512.15	513.73	509.00	1.35	ppb
Strontium	88-1	495.61	507.71	510.59	504.64	1.58	ppb
Sulfur	34-1	10117.38	10390.20	9975.95	10161.18	2.07	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	503.40	503.64	500.85	502.63	0.31	ppb
Thallium	205-1	496.59	501.65	498.03	498.76	0.52	ppb
Tin	118-1	511.81	506.98	507.09	508.63	0.54	ppb
Titanium	47-1	4932.68	5121.28	5080.52	5044.83	1.97	ppb
Uranium	238-1	493.06	502.45	505.78	500.43	1.32	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	491.03	488.56	486.28	488.62	0.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	5362.61	5195.13	5316.99	5291.58	1.64	ppb
Zirconium	90-1	493.37	508.30	503.25	501.64	1.51	ppb
Zirconium	91-1	492.89	510.87	503.59	502.45	1.80	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19762.20	19143.52	18879.83	19261.85	2.35	ppb
Antimony	121-1	982.27	1005.94	991.75	993.32	1.20	ppb
Arsenic	75-2	1000.28	1001.04	972.77	991.36	1.62	ppb
Barium	135-1	4952.47	5029.03	4948.19	4976.56	0.91	ppb
Barium	137-1	4995.71	5014.27	4933.86	4981.28	0.85	ppb
Beryllium	9-1	975.37	1016.74	981.83	991.31	2.25	ppb
Bismuth	209-1				93		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	985.90	999.93	978.46	988.10	1.10	ppb
Cadmium	106-1	992.56	999.37	984.91	992.28	0.73	ppb
Cadmium	111-1	998.98	1000.03	981.14	993.38	1.07	ppb
Calcium	43-1	99870.20	98870.48	100062.06	99600.91	0.64	ppb
Calcium	44-1	100157.99	98975.49	100443.67	99859.05	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	999.38	1006.08	977.11	994.19	1.53	ppb
Cobalt	59-2	991.06	992.48	977.82	987.12	0.82	ppb
Copper	63-2	9899.94	9840.38	9840.61	9860.31	0.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				99		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	54-2	51759.40	51743.59	51076.18	51526.39	0.76	ppb
Iron	56-2	50299.42	50120.45	49922.31	50114.06	0.38	ppb
Iron	57-2	51389.58	51342.28	51147.14	51293.00	0.25	ppb
Krypton	83-1						cps
Lead	206-1	5031.07	4969.11	5041.88	5014.02	0.78	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5018.25	5007.84	5000.02	5008.70	0.18	ppb
Lead	208-1	4992.24	5023.38	5010.75	5008.79	0.31	ppb
Lithium	6-1				89		%
Magnesium	24-2	107109.45	106043.70	105572.18	106241.78	0.74	ppb
Manganese	55-2	9934.12	9921.98	9781.28	9879.13	0.86	ppb
Molybdenum	94-1	9939.26	10045.21	9983.34	9989.27	0.53	ppb
Molybdenum	95-1	9859.72	10105.58	9987.26	9984.19	1.23	ppb
Molybdenum	96-1	9801.46	10098.16	10106.01	10001.88	1.74	ppb
Molybdenum	97-1	9923.97	10028.91	10116.78	10023.22	0.96	ppb
Molybdenum	98-1	9995.94	10109.10	9911.52	10005.52	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1021.74	997.14	1004.40	1007.76	1.25	ppb
Phosphorus	31-2	19942.47	19753.02	19748.02	19814.50	0.56	ppb
Potassium	39-2	48292.30	47673.19	47513.35	47826.28	0.86	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	978.18	1013.31	993.94	995.14	1.77	ppb
Selenium	77-2	974.02	1023.78	989.75	995.85	2.55	ppb
Selenium	78-2	988.65	1001.67	985.81	992.04	0.85	ppb
Silicon	28-1	999.82	979.36	987.12	988.77	1.04	ppb
Silver	107-1	988.61	997.49	976.00	987.37	1.09	ppb
Silver	109-1	972.80	995.32	989.37	985.83	1.18	ppb
Sodium	23-2	100683.76	99328.41	98144.51	99385.56	1.28	ppb
Strontium	86-1	988.38	1003.14	1008.46	999.99	1.04	ppb
Strontium	88-1	988.11	1007.64	999.04	998.26	0.98	ppb
Sulfur	34-1	19648.47	19610.09	19636.82	19631.79	0.10	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	1004.09	995.12	997.75	998.99	0.46	ppb
Thallium	205-1	1002.20	999.16	1006.50	1002.62	0.37	ppb
Tin	118-1	989.54	994.86	994.63	993.01	0.30	ppb
Titanium	47-1	10076.47	9832.92	10011.10	9973.50	1.26	ppb
Uranium	238-1	1003.37	1005.32	997.33	1002.01	0.42	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1002.17	1015.60	1005.03	1007.60	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	9887.42	9765.43	9875.83	9842.89	0.68	ppb
Zirconium	90-1	993.08	1007.04	999.66	999.93	0.70	ppb
Zirconium	91-1	984.03	1010.63	1006.29	1000.31	1.43	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99746.25	99805.35	101103.88	100218.49	0.77	ppb
Antimony	121-1	0.68	0.65	0.62	0.65	5.21	ppb
Arsenic	75-2	0.40	0.42	0.41	0.41	3.23	ppb
Barium	135-1	2.13	1.94	1.78	1.95	8.75	ppb
Barium	137-1	2.21	2.03	1.88	2.04	8.06	ppb
Beryllium	9-1	0.28	0.22	0.20	0.24	17.63	ppb
Bismuth	209-1				76		%
Bismuth	209-2				77		%
Bromine	81-1						cps
Cadmium	108-1	0.55	0.57	0.42	0.51	15.77	ppb
Cadmium	106-1	-0.66	-1.61	-0.22	-0.83		ppb
Cadmium	111-1	0.22	0.19	0.20	0.20	6.90	ppb
Calcium	43-1	499857.97	498069.70	502158.93	500028.87	0.41	ppb
Calcium	44-1	499740.45	497524.18	502687.75	499984.13	0.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.57	2.40	2.42	2.46	3.79	ppb
Cobalt	59-2	2.03	1.98	1.95	1.98	2.02	ppb
Copper	63-2	1.86	1.88	1.70	1.81	5.40	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				88		%
Holmium	165-2				90		%
Indium	115-1				82		%
Indium	115-2				84		%
Iron	54-2	247812.72	250914.28	249555.98	249427.66	0.62	ppb
Iron	56-2	251473.39	250694.83	247240.50	249802.91	0.90	ppb
Iron	57-2	249383.78	251722.43	247672.63	249592.95	0.81	ppb
Krypton	83-1						cps
Lead	206-1	1.63	1.59	1.47	1.56	5.13	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.62	1.55	1.41	1.53	6.95	ppb
Lead	208-1	1.64	1.54	1.44	1.54	6.50	ppb
Lithium	6-1				76		%
Magnesium	24-2	496650.66	499556.30	497983.56	498063.51	0.29	ppb
Manganese	55-2	3.40	3.24	3.11	3.25	4.48	ppb
Molybdenum	94-1	2.63	2.37	2.12	2.37	10.84	ppb
Molybdenum	95-1	1.70	1.49	1.32	1.50	12.93	ppb
Molybdenum	96-1	2.18	1.95	1.77	1.97	10.52	ppb
Molybdenum	97-1	1.38	1.12	0.95	1.15	18.87	ppb
Molybdenum	98-1	1.37	1.08	0.89	1.11	21.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.04	3.85	3.87	3.92	2.72	ppb
Phosphorus	31-2	-12.45	4.29	-16.38	-8.18		ppb
Potassium	39-2	251050.00	249982.59	250411.75	250481.45	0.21	ppb
Rhodium	103-1				76		%
Rhodium	103-2				76		%
Scandium	45-1				84		%
Scandium	45-2				85		%
Selenium	82-1	0.02	0.13	0.04	0.06	99.86	ppb
Selenium	77-2	-0.29	1.67	-0.29	0.36	310.24	ppb
Selenium	78-2	0.33	0.07	0.07	0.15	97.85	ppb
Silicon	28-1	5.32	4.84	4.73	4.97	6.32	ppb
Silver	107-1	0.15	0.12	0.10	0.13	17.18	ppb
Silver	109-1	0.16	0.13	0.10	0.13	21.79	ppb
Sodium	23-2	498168.87	502128.20	499585.75	499960.94	0.40	ppb
Strontium	86-1	2.54	2.62	2.65	2.60	2.07	ppb
Strontium	88-1	2.66	2.62	2.60	2.63	1.08	ppb
Sulfur	34-1	-622.37	-707.90	-633.00	-654.42		ppb
Terbium	159-1				89		%
Terbium	159-2				89		%
Thallium	203-1	0.15	0.10	0.09	0.11	27.24	ppb
Thallium	205-1	0.15	0.11	0.08	0.11	28.11	ppb
Tin	118-1	0.20	0.14	0.15	0.16	20.73	ppb
Titanium	47-1	3.73	3.63	3.48	3.62	3.46	ppb
Uranium	238-1	0.08	0.05	0.04	0.06	39.68	ppb

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.18	0.16	0.18	0.17	6.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				87		%
Yttrium	89-2				89		%
Zinc	66-2	13.13	13.83	13.23	13.39	2.82	ppb
Zirconium	90-1	0.56	0.52	0.51	0.53	4.70	ppb
Zirconium	91-1	0.58	0.54	0.51	0.54	6.28	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	467.00	465.44	449.15	460.53	2.15	ppb
Antimony	121-1	197.51	198.56	201.93	199.34	1.16	ppb
Arsenic	75-2	200.19	195.86	196.33	197.46	1.20	ppb
Barium	135-1	96.86	98.28	97.63	97.59	0.73	ppb
Barium	137-1	98.20	99.52	99.12	98.95	0.69	ppb
Beryllium	9-1	91.98	90.90	94.57	92.48	2.04	ppb
Bismuth	209-1				95		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	181.63	181.34	178.80	180.59	0.86	ppb
Cadmium	106-1	188.10	190.31	192.99	190.47	1.29	ppb
Cadmium	111-1	97.96	100.23	99.17	99.12	1.14	ppb
Calcium	43-1	2082.43	2104.38	2131.46	2106.09	1.17	ppb
Calcium	44-1	2125.23	2157.55	2173.17	2151.99	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	94.96	96.01	95.16	95.37	0.58	ppb
Cobalt	59-2	98.21	98.99	97.22	98.14	0.91	ppb
Copper	63-2	103.70	103.66	102.19	103.18	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				96		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				99		%
Iron	54-2	2123.02	2123.21	2083.98	2110.07	1.07	ppb
Iron	56-2	2120.12	2144.60	2082.81	2115.84	1.47	ppb
Iron	57-2	2030.29	2017.38	2011.45	2019.71	0.48	ppb
Krypton	83-1						cps
Lead	206-1	207.76	201.77	203.24	204.26	1.53	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	200.08	192.82	195.84	196.25	1.86	ppb
Lead	208-1	201.56	198.42	199.12	199.70	0.82	ppb
Lithium	6-1				96		%
Magnesium	24-2	1213.00	1213.75	1192.31	1206.35	1.01	ppb
Manganese	55-2	99.35	99.11	98.37	98.94	0.52	ppb
Molybdenum	94-1	4804.47	4784.86	4764.29	4784.54	0.42	ppb
Molybdenum	95-1	4752.93	4791.42	4779.35	4774.57	0.41	ppb
Molybdenum	96-1	4695.28	4791.34	4818.16	4768.26	1.35	ppb
Molybdenum	97-1	4683.11	4742.14	4736.84	4720.69	0.69	ppb
Molybdenum	98-1	4771.83	4760.82	4802.43	4778.36	0.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	99.19	100.09	98.95	99.41	0.60	ppb
Phosphorus	31-2	-17.02	-23.12	-25.82	-21.98		ppb
Potassium	39-2	1842.29	1858.50	1833.74	1844.84	0.68	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	197.15	200.94	201.94	200.01	1.26	ppb
Selenium	77-2	189.75	210.37	212.09	204.07	6.09	ppb
Selenium	78-2	195.68	184.20	205.00	194.96	5.34	ppb
Silicon	28-1	131.31	132.61	133.69	132.54	0.90	ppb
Silver	107-1	46.82	47.57	47.57	47.32	0.92	ppb
Silver	109-1	46.71	47.96	47.77	47.48	1.41	ppb
Sodium	23-2	1948.32	1940.13	1919.94	1936.13	0.75	ppb
Strontium	86-1	480.96	486.56	481.76	483.10	0.63	ppb
Strontium	88-1	474.09	475.48	481.62	477.06	0.84	ppb
Sulfur	34-1	-918.94	-867.67	-873.92	-886.84		ppb
Terbium	159-1				96		%
Terbium	159-2				101		%
Thallium	203-1	199.02	192.50	194.02	195.18	1.75	ppb
Thallium	205-1	193.17	187.81	191.52	190.83	1.44	ppb
Tin	118-1	531.59	534.15	532.72	532.82	0.24	ppb
Titanium	47-1	4695.48	4805.52	4753.59	4751.53	1.16	ppb
Uranium	238-1	474.50	477.23	476.35	476.03	0.29	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	92.69	92.51	91.25	92.15	0.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				99		%
Zinc	66-2	197.88	196.61	198.70	197.73	0.53	ppb
Zirconium	90-1	499.84	498.64	493.57	497.35	0.67	ppb
Zirconium	91-1	501.78	504.22	505.95	503.98	0.42	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.09	0.21	-0.06	0.08	162.37	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.12	ppb
Arsenic	75-2	0.00	0.01	0.00	0.00	3198.63	ppb
Barium	135-1	0.05	0.03	0.04	0.04	26.24	ppb
Barium	137-1	0.04	0.04	0.04	0.04	4.49	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	7.24	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.01	0.06	0.01	537.19	ppb
Cadmium	106-1	-0.29	-0.38	-0.42	-0.36		ppb
Cadmium	111-1	0.00	0.00	-0.01	-0.01		ppb
Calcium	43-1	9.02	8.23	7.87	8.38	7.00	ppb
Calcium	44-1	7.70	8.02	8.67	8.13	6.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.04	0.12	0.07	54.53	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	17.46	ppb
Copper	63-2	0.00	-0.02	-0.04	-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				97		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	-3.48	-4.14	-3.86	-3.83		ppb
Iron	56-2	-7.64	-7.63	-7.42	-7.56		ppb
Iron	57-2	-4.11	-4.68	-4.99	-4.60		ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.06	0.07	12.44	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.07	0.07	0.07	5.02	ppb
Lead	208-1	0.07	0.06	0.07	0.07	9.11	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.49	-0.22	-0.52	-0.41		ppb
Manganese	55-2	0.03	0.06	0.05	0.05	33.74	ppb
Molybdenum	94-1	0.00	0.01	0.02	0.01	69.48	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.02	21.31	ppb
Molybdenum	96-1	0.01	0.01	0.02	0.01	10.76	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	21.69	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	29.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.05	0.09	0.02	410.20	ppb
Phosphorus	31-2	-23.88	-26.02	-27.47	-25.79		ppb
Potassium	39-2	16.94	13.19	12.19	14.11	17.75	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	-0.52	-0.12	-0.25	-0.30		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	1.01	-0.50	0.00	0.17	452.94	ppb
Silicon	28-1	-0.01	-0.22	0.09	-0.05		ppb
Silver	107-1	0.01	0.00	0.01	0.01	36.63	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.98	ppb
Sodium	23-2	18.14	16.69	16.76	17.19	4.74	ppb
Strontium	86-1	0.00	-0.01	0.01	0.00	405.46	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	22.31	ppb
Sulfur	34-1	-179.69	-317.63	-135.79	-211.04		ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.01	0.01	0.01	18.43	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	6.36	ppb
Tin	118-1	0.01	0.00	0.01	0.01	110.95	ppb
Titanium	47-1	-0.02	-0.01	-0.01	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	71.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	0.46	0.25	0.50	0.40	33.03	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	19.50	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	139.41	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93762.41	88860.52	92889.58	91837.50	2.85	ppb
Antimony	121-1	1.08	1.08	1.06	1.07	1.04	ppb
Arsenic	75-2	0.37	0.27	0.32	0.32	16.26	ppb
Barium	135-1	1.45	1.46	1.35	1.42	4.41	ppb
Barium	137-1	1.40	1.43	1.45	1.43	1.46	ppb
Beryllium	9-1	0.29	0.29	0.28	0.29	2.40	ppb
Bismuth	209-1				88		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	16.33	16.46	14.83	15.87	5.70	ppb
Cadmium	106-1	-0.82	-1.34	-2.09	-1.42		ppb
Cadmium	111-1	0.60	0.59	0.59	0.59	1.58	ppb
Calcium	43-1	98903.38	100491.09	100848.87	100081.12	1.03	ppb
Calcium	44-1	99302.80	101778.35	100591.78	100557.64	1.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.74	18.68	19.20	18.88	1.52	ppb
Cobalt	59-2	1.12	1.10	1.12	1.11	0.79	ppb
Copper	63-2	7.53	7.47	7.64	7.55	1.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				98		%
Indium	115-1				93		%
Indium	115-2				94		%
Iron	54-2	104576.41	103160.10	106683.94	104806.82	1.69	ppb
Iron	56-2	106107.75	103813.80	105973.61	105298.38	1.22	ppb
Iron	57-2	106217.35	103320.56	108667.24	106068.38	2.52	ppb
Krypton	83-1						cps
Lead	206-1	4.62	4.47	4.59	4.56	1.66	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.11	4.15	4.27	4.18	1.92	ppb
Lead	208-1	4.30	4.28	4.33	4.30	0.56	ppb
Lithium	6-1				89		%
Magnesium	24-2	105134.29	101119.89	104472.90	103575.70	2.08	ppb
Manganese	55-2	7.27	7.21	7.81	7.43	4.48	ppb
Molybdenum	94-1	1571.92	1597.81	1635.34	1601.69	1.99	ppb
Molybdenum	95-1	1942.50	1949.70	2001.05	1964.42	1.63	ppb
Molybdenum	96-1	1889.91	1911.45	1977.51	1926.29	2.37	ppb
Molybdenum	97-1	1923.00	1918.54	2000.17	1947.24	2.36	ppb
Molybdenum	98-1	1924.15	1920.66	1995.46	1946.76	2.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.11	4.90	5.26	5.09	3.52	ppb
Phosphorus	31-2	104994.64	102360.52	107271.90	104875.68	2.34	ppb
Potassium	39-2	99187.32	96456.16	99918.71	98520.73	1.85	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				96		%
Scandium	45-2				97		%
Selenium	82-1	-0.29	0.28	0.08	0.02	1188.94	ppb
Selenium	77-2	-0.29	0.60	-0.29	0.01	6966.00	ppb
Selenium	78-2	0.79	-0.24	0.28	0.27	189.22	ppb
Silicon	28-1	7.25	7.39	7.32	7.32	0.97	ppb
Silver	107-1	0.06	0.05	0.06	0.06	7.30	ppb
Silver	109-1	0.06	0.06	0.05	0.06	7.30	ppb
Sodium	23-2	103330.17	99457.49	103152.76	101980.14	2.14	ppb
Strontium	86-1	30.14	30.88	31.11	30.71	1.65	ppb
Strontium	88-1	32.61	32.84	33.37	32.94	1.18	ppb
Sulfur	34-1	99171.07	100123.64	99297.82	99530.84	0.52	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	0.12	0.14	0.14	0.13	8.61	ppb
Thallium	205-1	0.11	0.13	0.13	0.13	8.52	ppb
Tin	118-1	0.17	0.16	0.17	0.17	3.73	ppb
Titanium	47-1	2060.46	2103.88	2079.28	2081.20	1.05	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	2.93	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.10	0.14	0.13	0.12	15.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				97		%
Zinc	66-2	10.86	10.99	11.05	10.97	0.87	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	19.71	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	49.10	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91499.72	94053.50	91846.04	92466.42	1.50	ppb
Antimony	121-1	20.25	19.81	20.04	20.03	1.10	ppb
Arsenic	75-2	20.26	20.63	20.51	20.47	0.91	ppb
Barium	135-1	20.86	20.81	21.09	20.92	0.71	ppb
Barium	137-1	21.64	21.22	21.43	21.43	0.98	ppb
Beryllium	9-1	20.25	20.08	20.00	20.11	0.62	ppb
Bismuth	209-1				92		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	31.85	30.36	31.66	31.29	2.58	ppb
Cadmium	106-1	13.92	11.33	14.20	13.15	12.04	ppb
Cadmium	111-1	19.25	19.34	19.09	19.23	0.67	ppb
Calcium	43-1	101184.16	98615.89	100463.04	100087.69	1.32	ppb
Calcium	44-1	101028.73	99666.76	99787.61	100161.04	0.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.63	38.40	37.63	37.89	1.17	ppb
Cobalt	59-2	20.12	20.37	20.30	20.26	0.66	ppb
Copper	63-2	26.69	27.43	27.09	27.07	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				101		%
Holmium	165-2				100		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	105063.21	106314.40	103160.32	104845.98	1.51	ppb
Iron	56-2	104896.75	106194.13	103865.90	104985.59	1.11	ppb
Iron	57-2	104185.50	105206.33	103978.77	104456.87	0.63	ppb
Krypton	83-1						cps
Lead	206-1	24.24	24.15	24.06	24.15	0.38	ppb

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.57	23.39	23.52	23.49	0.38	ppb
Lead	208-1	23.74	23.66	23.81	23.74	0.32	ppb
Lithium	6-1				91		%
Magnesium	24-2	104293.88	104452.36	104802.24	104516.16	0.25	ppb
Manganese	55-2	26.89	26.85	26.60	26.78	0.59	ppb
Molybdenum	94-1	1615.75	1611.00	1627.29	1618.01	0.52	ppb
Molybdenum	95-1	1971.37	1998.04	1990.61	1986.67	0.69	ppb
Molybdenum	96-1	1923.62	1954.71	1943.13	1940.49	0.81	ppb
Molybdenum	97-1	1949.76	1964.42	1983.32	1965.83	0.86	ppb
Molybdenum	98-1	1965.51	1940.44	1972.56	1959.50	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.80	24.13	23.39	23.78	1.55	ppb
Phosphorus	31-2	105106.63	105919.57	104141.28	105055.82	0.85	ppb
Potassium	39-2	97635.80	97926.19	99088.40	98216.80	0.78	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				102		%
Selenium	82-1	20.09	20.59	20.53	20.40	1.32	ppb
Selenium	77-2	20.78	22.53	13.94	19.09	23.78	ppb
Selenium	78-2	21.12	21.92	18.77	20.60	7.93	ppb
Silicon	28-1	7.75	7.64	7.59	7.66	1.04	ppb
Silver	107-1	17.79	17.77	17.90	17.82	0.39	ppb
Silver	109-1	18.60	18.14	18.32	18.35	1.24	ppb
Sodium	23-2	102925.44	103969.01	101684.41	102859.62	1.11	ppb
Strontium	86-1	30.86	31.02	31.05	30.98	0.32	ppb
Strontium	88-1	33.53	33.22	33.21	33.32	0.55	ppb
Sulfur	34-1	99562.11	98315.36	97037.31	98304.93	1.28	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	19.27	19.29	19.32	19.29	0.11	ppb
Thallium	205-1	19.28	19.35	19.44	19.35	0.42	ppb
Tin	118-1	0.11	0.16	0.16	0.14	19.81	ppb
Titanium	47-1	2120.86	2065.46	2072.51	2086.28	1.45	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.64	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.24	19.31	19.07	19.21	0.63	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	30.09	29.88	29.55	29.84	0.92	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	16.97	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	27.52	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50480.28	49188.38	49434.74	49701.13	1.38	ppb
Antimony	121-1	498.79	505.78	507.48	504.02	0.91	ppb
Arsenic	75-2	508.13	504.45	500.07	504.22	0.80	ppb
Barium	135-1	2551.63	2554.23	2549.96	2551.94	0.08	ppb
Barium	137-1	2575.88	2549.86	2557.04	2560.93	0.52	ppb
Beryllium	9-1	526.16	529.27	533.05	529.49	0.65	ppb
Bismuth	209-1				87		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	488.97	493.29	488.00	490.09	0.58	ppb
Cadmium	106-1	484.28	492.43	490.33	489.01	0.86	ppb
Cadmium	111-1	492.44	487.92	492.62	490.99	0.54	ppb
Calcium	43-1	257193.17	255130.41	256748.16	256357.24	0.42	ppb
Calcium	44-1	255651.88	254608.19	258285.55	256181.87	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	518.52	507.47	513.85	513.28	1.08	ppb
Cobalt	59-2	513.75	493.91	496.49	501.38	2.15	ppb
Copper	63-2	4889.64	4771.28	4764.75	4808.55	1.46	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				96		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	131906.04	127772.97	128232.32	129303.78	1.75	ppb
Iron	56-2	131291.03	126725.70	126450.22	128155.65	2.12	ppb
Iron	57-2	131888.73	126551.27	126948.60	128462.86	2.31	ppb
Krypton	83-1						cps
Lead	206-1	2583.87	2557.63	2572.38	2571.29	0.51	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2579.02	2559.98	2584.94	2574.65	0.51	ppb
Lead	208-1	2582.86	2574.95	2590.56	2582.79	0.30	ppb
Lithium	6-1				85		%
Magnesium	24-2	275928.53	271354.62	271764.90	273016.01	0.93	ppb
Manganese	55-2	5140.85	5001.01	5049.64	5063.83	1.40	ppb
Molybdenum	94-1	5137.22	5178.68	5137.56	5151.15	0.46	ppb
Molybdenum	95-1	5142.41	5127.98	5113.84	5128.08	0.28	ppb
Molybdenum	96-1	5061.00	5066.58	5115.49	5081.02	0.59	ppb
Molybdenum	97-1	5059.01	5085.93	5039.79	5061.58	0.46	ppb
Molybdenum	98-1	5095.91	5076.03	5064.61	5078.85	0.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	465.75	450.09	452.36	456.06	1.86	ppb
Phosphorus	31-2	10321.66	9916.73	10341.88	10193.42	2.35	ppb
Potassium	39-2	128202.30	125050.96	124192.29	125815.18	1.68	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	491.40	486.74	480.63	486.26	1.11	ppb
Selenium	77-2	518.94	502.00	469.75	496.90	5.03	ppb
Selenium	78-2	498.15	486.18	498.52	494.28	1.42	ppb
Silicon	28-1	532.02	534.30	537.19	534.50	0.48	ppb
Silver	107-1	477.72	489.37	482.42	483.17	1.21	ppb
Silver	109-1	486.60	487.62	482.72	485.64	0.53	ppb
Sodium	23-2	264402.32	253188.53	253329.20	256973.35	2.50	ppb
Strontium	86-1	515.78	507.28	503.64	508.90	1.22	ppb
Strontium	88-1	499.26	509.21	502.93	503.80	1.00	ppb
Sulfur	34-1	10044.09	9787.78	9831.54	9887.80	1.39	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	530.05	509.02	523.31	520.79	2.06	ppb
Thallium	205-1	515.36	509.71	519.66	514.91	0.97	ppb
Tin	118-1	507.28	510.45	510.13	509.29	0.34	ppb
Titanium	47-1	5060.36	5071.81	5124.65	5085.61	0.67	ppb
Uranium	238-1	532.51	533.92	539.61	535.35	0.70	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	498.52	483.02	486.34	489.29	1.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	4976.11	4783.71	4826.04	4861.95	2.08	ppb
Zirconium	90-1	506.32	511.79	512.16	510.09	0.64	ppb
Zirconium	91-1	506.67	521.42	516.10	514.73	1.45	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.32	1.48	1.12	1.64	37.50	ppb
Antimony	121-1	0.08	0.08	0.07	0.08	7.19	ppb
Arsenic	75-2	0.04	0.03	0.04	0.04	18.35	ppb
Barium	135-1	0.16	0.15	0.15	0.15	6.46	ppb
Barium	137-1	0.18	0.16	0.15	0.16	7.03	ppb
Beryllium	9-1	0.09	0.09	0.09	0.09	2.02	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.09	-0.01	0.04	0.04	119.07	ppb
Cadmium	106-1	0.01	-0.66	-0.54	-0.40		ppb
Cadmium	111-1	0.04	0.02	0.02	0.03	45.25	ppb
Calcium	43-1	19.85	14.95	14.55	16.45	17.96	ppb
Calcium	44-1	16.41	15.75	14.97	15.71	4.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.01	0.03	0.02	59.13	ppb
Cobalt	59-2	0.02	0.02	0.01	0.02	23.74	ppb
Copper	63-2	0.24	0.08	0.11	0.14	60.98	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				101		%
Holmium	165-2				100		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	54-2	0.48	-1.95	-1.88	-1.12		ppb
Iron	56-2	-2.52	-5.42	-5.93	-4.62		ppb
Iron	57-2	1.24	-1.29	-2.85	-0.96		ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.17	0.17	0.18	8.77	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.20	0.16	0.19	11.73	ppb
Lead	208-1	0.20	0.18	0.17	0.19	5.80	ppb
Lithium	6-1				100		%
Magnesium	24-2	10.68	4.31	2.78	5.92	70.71	ppb
Manganese	55-2	0.17	0.10	0.11	0.13	32.49	ppb
Molybdenum	94-1	0.26	0.22	0.23	0.24	10.41	ppb
Molybdenum	95-1	0.26	0.22	0.22	0.23	8.67	ppb
Molybdenum	96-1	0.23	0.21	0.22	0.22	5.01	ppb
Molybdenum	97-1	0.25	0.22	0.19	0.22	14.00	ppb
Molybdenum	98-1	0.24	0.22	0.22	0.22	4.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.08	-0.10	0.03	0.00	1996.87	ppb
Phosphorus	31-2	-29.89	-29.03	-24.24	-27.72		ppb
Potassium	39-2	30.42	27.90	27.15	28.49	6.01	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	-0.20	-0.31	-0.27	-0.26		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.01	0.46	0.47	0.31	89.66	ppb
Silicon	28-1	-0.07	-0.22	-0.54	-0.28		ppb
Silver	107-1	0.05	0.05	0.05	0.05	8.55	ppb
Silver	109-1	0.05	0.05	0.04	0.05	15.63	ppb
Sodium	23-2	47.03	38.05	37.55	40.88	13.04	ppb
Strontium	86-1	0.01	0.01	0.01	0.01	38.16	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	5.49	ppb
Sulfur	34-1	-600.30	-611.38	-717.65	-643.11		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.08	0.07	0.07	0.08	7.20	ppb
Thallium	205-1	0.08	0.08	0.07	0.07	5.57	ppb
Tin	118-1	0.05	0.03	0.03	0.04	35.86	ppb
Titanium	47-1	0.19	0.16	0.17	0.18	8.34	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	6.51	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.01	0.00	0.01	88.62	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	0.64	0.67	0.56	0.63	9.46	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	16.18	ppb
Zirconium	91-1	0.03	0.02	0.03	0.03	19.69	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.05	8.22	9.77	8.68	10.90	ppb
Antimony	121-1	0.41	0.42	0.41	0.41	1.46	ppb
Arsenic	75-2	0.48	0.56	0.47	0.50	9.85	ppb
Barium	135-1	2.01	2.08	2.12	2.07	2.55	ppb
Barium	137-1	2.18	2.13	2.12	2.14	1.48	ppb
Beryllium	9-1	0.41	0.44	0.44	0.43	4.24	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.37	0.35	0.38	8.71	ppb
Cadmium	106-1	0.51	0.29	-0.18	0.21	168.55	ppb
Cadmium	111-1	0.43	0.39	0.40	0.40	5.37	ppb
Calcium	43-1	182.72	191.22	190.02	187.99	2.45	ppb
Calcium	44-1	186.37	190.73	193.04	190.05	1.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.59	0.69	0.57	0.62	10.50	ppb
Cobalt	59-2	0.42	0.41	0.40	0.41	1.99	ppb
Copper	63-2	0.88	0.98	0.94	0.93	5.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				103		%
Indium	115-2				102		%
Iron	54-2	45.28	43.41	42.15	43.61	3.62	ppb
Iron	56-2	39.27	38.73	37.83	38.61	1.89	ppb
Iron	57-2	41.27	40.86	38.22	40.12	4.12	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.45	0.49	0.45	6.32	ppb

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.47	0.45	0.47	0.47	2.02	ppb
Lead	208-1	0.46	0.46	0.46	0.46	0.86	ppb
Lithium	6-1				100		%
Magnesium	24-2	220.85	214.74	213.76	216.45	1.78	ppb
Manganese	55-2	0.93	0.99	1.01	0.98	4.29	ppb
Molybdenum	94-1	1.08	1.02	1.04	1.05	2.84	ppb
Molybdenum	95-1	0.40	0.44	0.41	0.41	5.22	ppb
Molybdenum	96-1	0.47	0.45	0.50	0.47	5.30	ppb
Molybdenum	97-1	0.42	0.42	0.40	0.41	3.39	ppb
Molybdenum	98-1	0.41	0.40	0.42	0.41	2.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.41	0.41	0.52	0.44	14.17	ppb
Phosphorus	31-2	-17.05	-18.59	-16.67	-17.44		ppb
Potassium	39-2	138.45	136.61	133.88	136.31	1.69	ppb
Rhodium	103-1				104		%
Rhodium	103-2				103		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	4.27	4.50	4.41	4.39	2.65	ppb
Selenium	77-2	7.33	0.56	11.53	6.47	85.53	ppb
Selenium	78-2	4.68	5.66	6.39	5.57	15.35	ppb
Silicon	28-1	0.17	0.59	0.89	0.55	65.68	ppb
Silver	107-1	0.43	0.43	0.44	0.43	2.21	ppb
Silver	109-1	0.42	0.43	0.45	0.43	3.85	ppb
Sodium	23-2	221.51	218.19	212.74	217.48	2.04	ppb
Strontium	86-1	0.37	0.35	0.38	0.37	4.20	ppb
Strontium	88-1	0.38	0.38	0.38	0.38	0.86	ppb
Sulfur	34-1	-442.97	-330.00	-284.54	-352.50		ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.42	0.40	0.42	0.41	3.15	ppb
Thallium	205-1	0.40	0.40	0.41	0.40	1.78	ppb
Tin	118-1	0.38	0.39	0.38	0.38	1.48	ppb
Titanium	47-1	0.37	0.40	0.44	0.40	8.58	ppb
Uranium	238-1	0.37	0.38	0.38	0.37	1.02	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.44	0.39	0.36	0.40	10.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				102		%
Zinc	66-2	1.02	1.20	0.97	1.06	11.45	ppb
Zirconium	90-1	0.39	0.39	0.38	0.38	1.46	ppb
Zirconium	91-1	0.38	0.40	0.42	0.40	4.97	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.60	19.20	18.63	19.14	2.56	ppb
Antimony	121-1	1.85	1.87	1.83	1.85	0.97	ppb
Arsenic	75-2	0.87	1.03	1.00	0.97	8.91	ppb
Barium	135-1	9.25	9.43	9.38	9.35	1.00	ppb
Barium	137-1	9.41	9.55	9.55	9.50	0.83	ppb
Beryllium	9-1	0.94	0.94	0.97	0.95	2.17	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.99	0.98	0.99	0.99	0.30	ppb
Cadmium	106-1	0.36	0.16	0.84	0.45	77.27	ppb
Cadmium	111-1	0.89	0.93	1.02	0.95	6.88	ppb
Calcium	43-1	475.41	477.94	470.04	474.46	0.85	ppb
Calcium	44-1	470.14	467.86	478.34	472.11	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.91	1.84	1.87	1.87	1.82	ppb
Cobalt	59-2	1.00	1.02	0.96	0.99	2.94	ppb
Copper	63-2	1.97	1.89	2.01	1.96	2.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				103		%
Indium	115-2				101		%
Iron	54-2	48.90	47.51	48.42	48.28	1.46	ppb
Iron	56-2	41.82	42.27	43.35	42.48	1.85	ppb
Iron	57-2	44.82	43.96	49.34	46.04	6.28	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.94	0.94	0.94	0.59	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.94	0.92	0.92	0.93	1.46	ppb
Lead	208-1	0.94	0.93	0.93	0.93	0.10	ppb
Lithium	6-1				101		%
Magnesium	24-2	524.85	526.55	531.32	527.57	0.64	ppb
Manganese	55-2	1.06	0.96	1.06	1.03	5.21	ppb
Molybdenum	94-1	5.31	5.31	5.46	5.36	1.57	ppb
Molybdenum	95-1	4.49	4.55	4.55	4.53	0.82	ppb
Molybdenum	96-1	4.65	4.66	4.54	4.61	1.46	ppb
Molybdenum	97-1	4.45	4.52	4.41	4.46	1.18	ppb
Molybdenum	98-1	4.50	4.49	4.51	4.50	0.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.94	1.01	1.00	0.98	4.17	ppb
Phosphorus	31-2	17.44	11.29	-3.48	8.42	127.73	ppb
Potassium	39-2	466.40	472.01	477.29	471.90	1.15	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	4.78	4.94	4.84	4.85	1.69	ppb
Selenium	77-2	6.56	2.27	2.31	3.71	66.34	ppb
Selenium	78-2	5.48	4.97	6.06	5.50	9.93	ppb
Silicon	28-1	1.54	1.57	1.75	1.62	7.01	ppb
Silver	107-1	0.89	0.94	0.96	0.93	3.82	ppb
Silver	109-1	0.93	0.94	0.98	0.95	2.79	ppb
Sodium	23-2	496.57	502.14	502.88	500.53	0.69	ppb
Strontium	86-1	0.89	0.88	0.86	0.88	1.56	ppb
Strontium	88-1	0.88	0.87	0.88	0.88	0.56	ppb
Sulfur	34-1	-385.21	-399.40	-313.89	-366.17		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.88	0.90	0.88	0.89	1.52	ppb
Thallium	205-1	0.87	0.88	0.89	0.88	1.34	ppb
Tin	118-1	4.61	4.66	4.71	4.66	1.07	ppb
Titanium	47-1	4.56	4.63	4.64	4.61	0.93	ppb
Uranium	238-1	0.85	0.86	0.84	0.85	1.38	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.66	4.82	4.56	4.68	2.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				101		%
Zinc	66-2	5.08	5.17	5.36	5.20	2.82	ppb
Zirconium	90-1	0.88	0.92	0.91	0.90	2.39	ppb
Zirconium	91-1	0.92	0.87	0.92	0.91	3.06	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.56	19.55	19.60	18.57	9.37	ppb
Antimony	121-1	1.82	1.85	1.97	1.88	4.19	ppb
Arsenic	75-2	1.04	1.05	1.14	1.08	5.22	ppb
Barium	135-1	9.37	9.35	9.69	9.47	1.99	ppb
Barium	137-1	9.40	9.52	9.87	9.59	2.56	ppb
Beryllium	9-1	0.98	0.96	0.96	0.97	1.02	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.90	1.01	0.99	0.97	5.97	ppb
Cadmium	106-1	0.17	-0.16	-0.33	-0.11		ppb
Cadmium	111-1	0.94	0.94	1.02	0.97	5.01	ppb
Calcium	43-1	475.88	466.25	493.06	478.40	2.84	ppb
Calcium	44-1	465.92	479.98	487.33	477.74	2.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.79	1.80	1.91	1.83	3.74	ppb
Cobalt	59-2	0.97	1.00	0.98	0.98	1.67	ppb
Copper	63-2	1.78	1.94	1.99	1.90	5.99	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				104		%
Iron	54-2	44.66	47.16	44.58	45.47	3.22	ppb
Iron	56-2	40.03	41.98	41.94	41.32	2.70	ppb
Iron	57-2	43.22	42.58	42.53	42.77	0.90	ppb
Krypton	83-1						cps
Lead	206-1	0.91	0.91	0.97	0.93	3.84	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.95	0.97	0.95	0.96	1.06	ppb
Lead	208-1	0.94	0.96	0.95	0.95	0.92	ppb
Lithium	6-1				100		%
Magnesium	24-2	506.91	519.34	527.26	517.84	1.98	ppb
Manganese	55-2	0.92	0.92	0.98	0.94	3.74	ppb
Molybdenum	94-1	5.44	5.40	5.54	5.46	1.39	ppb
Molybdenum	95-1	4.55	4.49	4.64	4.56	1.65	ppb
Molybdenum	96-1	4.63	4.53	4.70	4.62	1.91	ppb
Molybdenum	97-1	4.59	4.57	4.74	4.64	1.91	ppb
Molybdenum	98-1	4.48	4.50	4.59	4.52	1.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.79	0.96	0.87	0.88	9.92	ppb
Phosphorus	31-2	-1.71	-0.92	-6.64	-3.09		ppb
Potassium	39-2	441.01	467.17	473.60	460.59	3.75	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	4.58	4.88	4.34	4.60	5.95	ppb
Selenium	77-2	4.55	5.47	11.62	7.22	53.26	ppb
Selenium	78-2	4.91	6.94	4.84	5.56	21.43	ppb
Silicon	28-1	1.26	1.42	1.84	1.51	19.83	ppb
Silver	107-1	0.95	0.93	0.96	0.95	1.69	ppb
Silver	109-1	0.94	0.94	1.01	0.96	4.29	ppb
Sodium	23-2	471.78	482.55	493.79	482.71	2.28	ppb
Strontium	86-1	0.87	0.88	0.91	0.89	2.43	ppb
Strontium	88-1	0.90	0.88	0.91	0.90	1.95	ppb
Sulfur	34-1	-548.59	-443.95	-445.21	-479.25		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.87	0.93	0.92	0.91	3.27	ppb
Thallium	205-1	0.89	0.88	0.89	0.89	0.56	ppb
Tin	118-1	4.69	4.70	4.89	4.76	2.39	ppb
Titanium	47-1	4.52	4.81	4.77	4.70	3.32	ppb
Uranium	238-1	0.86	0.86	0.87	0.86	0.46	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.41	4.54	4.66	4.54	2.69	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	5.20	4.88	5.20	5.09	3.52	ppb
Zirconium	90-1	0.90	0.91	0.92	0.91	1.06	ppb
Zirconium	91-1	0.90	0.88	0.92	0.90	2.68	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.20	18.72	16.45	17.46	6.62	ppb
Antimony	121-1	1.85	1.86	1.83	1.85	0.81	ppb
Arsenic	75-2	0.97	0.97	1.24	1.06	14.66	ppb
Barium	135-1	9.19	9.48	9.41	9.36	1.60	ppb
Barium	137-1	9.39	9.58	9.39	9.45	1.14	ppb
Beryllium	9-1	0.92	0.93	0.97	0.94	2.52	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.07	1.10	0.93	1.03	9.12	ppb
Cadmium	106-1	-0.05	0.42	0.44	0.27	103.80	ppb
Cadmium	111-1	0.93	1.01	0.95	0.96	4.54	ppb
Calcium	43-1	472.69	481.23	471.72	475.21	1.10	ppb
Calcium	44-1	467.52	485.54	471.99	475.01	1.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.93	1.91	1.83	1.89	2.63	ppb
Cobalt	59-2	0.97	1.03	1.01	1.00	3.29	ppb
Copper	63-2	2.06	2.10	2.09	2.09	0.99	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	56.06	49.48	50.13	51.89	6.98	ppb
Iron	56-2	42.96	43.36	43.84	43.39	1.01	ppb
Iron	57-2	45.07	46.39	43.84	45.10	2.83	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.94	0.90	0.91	3.33	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.91	0.93	0.93	0.92	1.35	ppb
Lead	208-1	0.91	0.93	0.91	0.92	1.55	ppb
Lithium	6-1				102		%
Magnesium	24-2	525.45	529.97	537.27	530.89	1.12	ppb
Manganese	55-2	1.09	1.00	0.90	1.00	9.66	ppb
Molybdenum	94-1	5.38	5.49	5.50	5.46	1.19	ppb
Molybdenum	95-1	4.44	4.70	4.58	4.58	2.83	ppb
Molybdenum	96-1	4.52	4.72	4.77	4.67	2.75	ppb
Molybdenum	97-1	4.55	4.66	4.58	4.60	1.21	ppb
Molybdenum	98-1	4.49	4.60	4.62	4.57	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.10	1.02	0.96	1.03	6.86	ppb
Phosphorus	31-2	15.29	3.76	3.87	7.64	86.71	ppb
Potassium	39-2	466.47	467.78	469.77	468.01	0.36	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	4.06	4.60	4.56	4.40	6.83	ppb
Selenium	77-2	2.21	10.44	3.97	5.54	78.20	ppb
Selenium	78-2	6.05	4.79	4.96	5.27	13.02	ppb
Silicon	28-1	1.40	1.59	1.24	1.41	12.51	ppb
Silver	107-1	0.93	0.95	0.92	0.94	1.31	ppb
Silver	109-1	0.93	0.96	0.94	0.95	1.66	ppb
Sodium	23-2	488.27	495.61	501.17	495.01	1.31	ppb
Strontium	86-1	0.88	0.92	0.87	0.89	3.41	ppb
Strontium	88-1	0.87	0.87	0.89	0.88	1.42	ppb
Sulfur	34-1	-405.40	-313.23	-445.28	-387.97		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.89	0.88	0.88	0.88	0.78	ppb
Thallium	205-1	0.87	0.88	0.87	0.87	1.03	ppb
Tin	118-1	4.63	4.76	4.71	4.70	1.41	ppb
Titanium	47-1	4.72	4.79	4.62	4.71	1.81	ppb
Uranium	238-1	0.85	0.86	0.85	0.86	0.38	ppb

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.55	4.55	4.71	4.60	1.96	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	5.00	5.28	4.97	5.08	3.39	ppb
Zirconium	90-1	0.90	0.91	0.89	0.90	1.19	ppb
Zirconium	91-1	0.90	0.93	0.99	0.94	5.16	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.21	17.85	18.89	17.65	7.66	ppb
Antimony	121-1	1.85	1.95	1.92	1.91	2.82	ppb
Arsenic	75-2	1.09	1.07	1.07	1.07	0.93	ppb
Barium	135-1	9.64	9.95	9.81	9.80	1.57	ppb
Barium	137-1	9.60	9.86	9.76	9.74	1.35	ppb
Beryllium	9-1	0.96	0.96	0.95	0.96	0.62	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.04	1.21	1.13	1.12	7.41	ppb
Cadmium	106-1	0.91	0.07	0.20	0.39	115.54	ppb
Cadmium	111-1	0.97	1.00	0.95	0.97	2.80	ppb
Calcium	43-1	495.77	492.84	490.27	492.96	0.56	ppb
Calcium	44-1	485.01	495.67	488.58	489.75	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.93	1.97	2.05	1.98	2.86	ppb
Cobalt	59-2	1.01	1.02	1.08	1.03	3.58	ppb
Copper	63-2	2.04	2.02	1.99	2.02	1.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	50.92	50.76	48.61	50.10	2.58	ppb
Iron	56-2	42.58	43.41	43.34	43.11	1.07	ppb
Iron	57-2	47.21	46.62	43.94	45.93	3.79	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.96	0.98	0.95	2.42	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.97	0.98	0.97	0.97	0.69	ppb
Lead	208-1	0.93	0.96	0.95	0.95	1.55	ppb
Lithium	6-1				93		%
Magnesium	24-2	533.77	540.23	536.33	536.77	0.61	ppb
Manganese	55-2	0.95	1.02	1.04	1.00	4.85	ppb
Molybdenum	94-1	5.46	5.50	5.60	5.52	1.32	ppb
Molybdenum	95-1	4.73	4.72	4.68	4.71	0.52	ppb
Molybdenum	96-1	4.71	4.74	4.81	4.75	1.15	ppb
Molybdenum	97-1	4.69	4.73	4.80	4.74	1.14	ppb
Molybdenum	98-1	4.55	4.63	4.64	4.61	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.97	1.08	1.05	1.03	5.14	ppb
Phosphorus	31-2	14.92	-9.80	-15.95	-3.61		ppb
Potassium	39-2	473.61	489.97	480.09	481.22	1.71	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	4.81	5.35	4.74	4.97	6.72	ppb
Selenium	77-2	4.23	2.44	2.45	3.04	33.89	ppb
Selenium	78-2	5.81	5.33	6.40	5.85	9.22	ppb
Silicon	28-1	2.00	2.50	2.25	2.25	11.06	ppb
Silver	107-1	0.95	0.97	0.97	0.96	1.59	ppb
Silver	109-1	0.96	0.97	0.98	0.97	0.80	ppb
Sodium	23-2	502.53	505.79	510.25	506.19	0.77	ppb
Strontium	86-1	0.87	0.89	0.92	0.90	3.04	ppb
Strontium	88-1	0.89	0.91	0.90	0.90	1.13	ppb
Sulfur	34-1	81.57	380.48	293.45	251.83	61.05	ppb
Terbium	159-1				93		%
Terbium	159-2				95		%
Thallium	203-1	0.87	0.91	0.94	0.91	3.84	ppb
Thallium	205-1	0.89	0.91	0.91	0.91	1.70	ppb
Tin	118-1	4.71	4.94	4.84	4.83	2.39	ppb
Titanium	47-1	5.03	4.91	4.83	4.93	2.07	ppb
Uranium	238-1	0.86	0.90	0.88	0.88	2.32	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.56	4.82	4.65	4.68	2.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				95		%
Zinc	66-2	4.85	5.28	5.39	5.17	5.59	ppb
Zirconium	90-1	0.94	0.93	0.91	0.93	1.50	ppb
Zirconium	91-1	0.91	0.94	0.90	0.91	2.52	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.01	8.63	8.18	8.27	3.88	ppb
Antimony	121-1	0.40	0.38	0.42	0.40	5.84	ppb
Arsenic	75-2	0.45	0.48	0.38	0.44	11.18	ppb
Barium	135-1	2.07	2.05	2.24	2.12	4.88	ppb
Barium	137-1	2.06	2.06	2.16	2.09	2.77	ppb
Beryllium	9-1	0.41	0.40	0.45	0.42	5.39	ppb
Bismuth	209-1				98		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.49	0.37	0.36	0.40	17.75	ppb
Cadmium	106-1	-0.77	-0.19	-0.13	-0.37		ppb
Cadmium	111-1	0.41	0.40	0.44	0.42	5.39	ppb
Calcium	43-1	193.37	187.63	204.52	195.17	4.40	ppb
Calcium	44-1	188.93	184.23	199.64	190.93	4.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.59	0.66	0.63	0.63	5.52	ppb
Cobalt	59-2	0.42	0.40	0.40	0.41	1.83	ppb
Copper	63-2	0.81	0.82	0.91	0.85	6.26	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	54-2	42.26	42.41	42.21	42.29	0.25	ppb
Iron	56-2	42.78	38.29	38.54	39.87	6.33	ppb
Iron	57-2	39.66	43.63	39.97	41.09	5.37	ppb
Krypton	83-1						cps
Lead	206-1	0.43	0.41	0.44	0.43	3.69	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.43	0.40	0.44	0.42	4.42	ppb
Lead	208-1	0.42	0.40	0.44	0.42	4.09	ppb
Lithium	6-1				97		%
Magnesium	24-2	215.67	222.06	215.38	217.70	1.74	ppb
Manganese	55-2	0.95	0.99	0.95	0.96	2.20	ppb
Molybdenum	94-1	1.08	1.03	1.10	1.07	3.23	ppb
Molybdenum	95-1	0.39	0.41	0.40	0.40	2.37	ppb
Molybdenum	96-1	0.46	0.48	0.48	0.48	2.44	ppb
Molybdenum	97-1	0.40	0.40	0.44	0.42	5.74	ppb
Molybdenum	98-1	0.40	0.40	0.44	0.41	5.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.34	0.43	0.45	0.41	14.09	ppb
Phosphorus	31-2	-21.79	-21.50	-20.40	-21.23		ppb
Potassium	39-2	124.47	132.16	129.07	128.57	3.01	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	4.67	4.55	5.42	4.88	9.61	ppb
Selenium	77-2	3.09	4.80	4.85	4.25	23.61	ppb
Selenium	78-2	2.94	5.92	6.74	5.20	38.40	ppb
Silicon	28-1	0.66	0.35	1.03	0.68	49.79	ppb
Silver	107-1	0.43	0.41	0.45	0.43	3.95	ppb
Silver	109-1	0.42	0.42	0.44	0.43	3.64	ppb
Sodium	23-2	209.49	211.62	206.76	209.29	1.16	ppb
Strontium	86-1	0.40	0.36	0.38	0.38	6.03	ppb
Strontium	88-1	0.39	0.36	0.40	0.38	5.07	ppb
Sulfur	34-1	-35.95	-243.15	65.58	-71.17		ppb
Terbium	159-1				99		%
Terbium	159-2				102		%
Thallium	203-1	0.37	0.39	0.42	0.40	6.25	ppb
Thallium	205-1	0.37	0.37	0.40	0.38	4.54	ppb
Tin	118-1	0.38	0.37	0.42	0.39	6.14	ppb
Titanium	47-1	0.37	0.38	0.46	0.40	12.25	ppb
Uranium	238-1	0.37	0.37	0.38	0.38	1.95	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.42	0.42	0.35	0.40	10.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	0.86	1.11	1.16	1.04	15.44	ppb
Zirconium	90-1	0.38	0.36	0.41	0.38	5.87	ppb
Zirconium	91-1	0.38	0.37	0.39	0.38	2.36	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.30	18.85	20.42	18.52	11.21	ppb
Antimony	121-1	1.87	1.84	1.90	1.87	1.48	ppb
Arsenic	75-2	0.91	1.18	0.94	1.01	14.60	ppb
Barium	135-1	9.31	9.38	9.62	9.43	1.73	ppb
Barium	137-1	9.52	9.59	9.69	9.60	0.93	ppb
Beryllium	9-1	0.91	0.93	0.92	0.92	1.17	ppb
Bismuth	209-1				97		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.05	1.11	1.01	1.05	4.70	ppb
Cadmium	106-1	-1.01	-0.01	0.98	-0.02		ppb
Cadmium	111-1	0.94	1.00	1.00	0.98	3.90	ppb
Calcium	43-1	472.83	472.85	486.77	477.49	1.68	ppb
Calcium	44-1	465.90	467.61	482.45	471.99	1.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.72	1.78	1.97	1.82	7.12	ppb
Cobalt	59-2	0.96	0.96	1.05	0.99	5.22	ppb
Copper	63-2	1.87	1.84	2.07	1.93	6.43	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				99		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				103		%
Iron	54-2	47.24	44.85	52.30	48.13	7.91	ppb
Iron	56-2	41.77	39.66	45.93	42.46	7.52	ppb
Iron	57-2	45.46	44.80	48.34	46.20	4.08	ppb
Krypton	83-1						cps
Lead	206-1	0.89	0.91	0.92	0.91	1.65	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.92	0.92	0.95	0.93	2.32	ppb
Lead	208-1	0.91	0.92	0.94	0.92	1.63	ppb
Lithium	6-1				101		%
Magnesium	24-2	515.52	504.47	563.09	527.70	5.90	ppb
Manganese	55-2	1.06	0.99	1.12	1.06	5.77	ppb
Molybdenum	94-1	5.40	5.38	5.47	5.41	0.88	ppb
Molybdenum	95-1	4.62	4.60	4.65	4.62	0.50	ppb
Molybdenum	96-1	4.59	4.64	4.69	4.64	1.12	ppb
Molybdenum	97-1	4.57	4.56	4.59	4.57	0.34	ppb
Molybdenum	98-1	4.58	4.52	4.59	4.56	0.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.15	0.96	1.13	1.08	9.91	ppb
Phosphorus	31-2	4.68	-6.36	3.51	0.61	996.56	ppb
Potassium	39-2	451.06	436.88	493.00	460.32	6.34	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	4.62	5.13	4.36	4.70	8.33	ppb
Selenium	77-2	5.58	3.00	5.29	4.62	30.53	ppb
Selenium	78-2	4.62	3.81	6.27	4.90	25.53	ppb
Silicon	28-1	1.03	1.11	1.37	1.17	15.08	ppb
Silver	107-1	0.94	0.95	0.99	0.96	2.80	ppb
Silver	109-1	0.95	0.99	0.96	0.97	2.17	ppb
Sodium	23-2	476.17	458.97	519.83	484.99	6.47	ppb
Strontium	86-1	0.89	0.92	0.90	0.90	1.78	ppb
Strontium	88-1	0.88	0.89	0.92	0.89	2.20	ppb
Sulfur	34-1	-99.96	-118.42	26.01	-64.12		ppb
Terbium	159-1				99		%
Terbium	159-2				101		%
Thallium	203-1	0.87	0.88	0.87	0.87	0.42	ppb
Thallium	205-1	0.88	0.88	0.88	0.88	0.39	ppb
Tin	118-1	4.74	4.76	4.78	4.76	0.45	ppb
Titanium	47-1	4.75	4.67	4.87	4.76	2.13	ppb
Uranium	238-1	0.86	0.87	0.86	0.86	0.65	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.43	4.38	4.98	4.60	7.24	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	4.67	4.56	5.51	4.92	10.58	ppb
Zirconium	90-1	0.90	0.90	0.91	0.90	0.64	ppb
Zirconium	91-1	0.91	0.92	0.90	0.91	0.99	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.38	8.52	8.93	8.61	3.32	ppb
Antimony	121-1	0.40	0.38	0.40	0.39	2.92	ppb
Arsenic	75-2	0.37	0.44	0.38	0.40	10.12	ppb
Barium	135-1	1.95	2.05	2.01	2.00	2.60	ppb
Barium	137-1	2.00	1.96	2.09	2.02	3.11	ppb
Beryllium	9-1	0.38	0.40	0.40	0.40	3.48	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.36	0.40	0.40	0.39	6.73	ppb
Cadmium	106-1	-0.35	-1.25	-0.05	-0.55		ppb
Cadmium	111-1	0.37	0.37	0.42	0.39	6.90	ppb
Calcium	43-1	196.53	195.85	195.65	196.01	0.24	ppb
Calcium	44-1	194.85	191.90	193.01	193.26	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.71	0.70	0.74	0.72	3.02	ppb
Cobalt	59-2	0.40	0.42	0.45	0.43	6.28	ppb
Copper	63-2	0.82	0.81	0.86	0.83	3.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	36.98	37.10	38.18	37.42	1.77	ppb
Iron	56-2	33.94	34.48	33.72	34.05	1.14	ppb
Iron	57-2	39.08	35.62	38.17	37.63	4.76	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.39	0.40	0.40	1.05	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.40	0.41	0.39	0.40	2.28	ppb
Lead	208-1	0.41	0.39	0.40	0.40	2.20	ppb
Lithium	6-1				99		%
Magnesium	24-2	217.30	217.71	216.74	217.25	0.22	ppb
Manganese	55-2	0.81	0.87	0.81	0.83	4.41	ppb
Molybdenum	94-1	1.07	1.05	1.03	1.05	1.74	ppb
Molybdenum	95-1	0.42	0.42	0.41	0.42	1.17	ppb
Molybdenum	96-1	0.47	0.48	0.50	0.48	3.37	ppb
Molybdenum	97-1	0.44	0.43	0.42	0.43	1.85	ppb
Molybdenum	98-1	0.42	0.40	0.41	0.41	1.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.47	0.39	0.52	0.46	13.96	ppb
Phosphorus	31-2	-23.43	-14.02	-32.91	-23.46		ppb
Potassium	39-2	132.25	128.03	123.53	127.94	3.41	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	4.61	4.15	5.00	4.59	9.25	ppb
Selenium	77-2	1.48	2.35	0.59	1.47	59.71	ppb
Selenium	78-2	5.94	9.98	4.35	6.76	42.98	ppb
Silicon	28-1	-0.07	-0.16	0.05	-0.06		ppb
Silver	107-1	0.38	0.41	0.40	0.40	3.21	ppb
Silver	109-1	0.38	0.43	0.43	0.41	5.99	ppb
Sodium	23-2	208.83	205.81	207.97	207.54	0.75	ppb
Strontium	86-1	0.40	0.34	0.38	0.37	8.69	ppb
Strontium	88-1	0.37	0.37	0.37	0.37	1.28	ppb
Sulfur	34-1	24.82	40.86	109.88	58.52	77.23	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.38	0.36	0.38	0.38	3.08	ppb
Thallium	205-1	0.38	0.38	0.37	0.37	0.42	ppb
Tin	118-1	0.39	0.39	0.39	0.39	0.65	ppb
Titanium	47-1	0.43	0.38	0.39	0.40	5.90	ppb
Uranium	238-1	0.37	0.37	0.36	0.37	0.68	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.40	0.37	0.41	0.39	4.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	1.25	0.97	1.12	1.11	12.21	ppb
Zirconium	90-1	0.37	0.36	0.39	0.38	3.66	ppb
Zirconium	91-1	0.40	0.39	0.37	0.39	3.98	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.30	7.47	7.91	7.89	5.28	ppb
Antimony	121-1	0.37	0.37	0.39	0.38	2.88	ppb
Arsenic	75-2	0.55	0.50	0.38	0.48	17.59	ppb
Barium	135-1	1.97	1.92	1.99	1.96	1.79	ppb
Barium	137-1	1.98	2.00	2.05	2.01	1.76	ppb
Beryllium	9-1	0.40	0.38	0.37	0.38	4.03	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.28	0.42	0.50	0.40	27.23	ppb
Cadmium	106-1	-0.78	-0.13	-0.19	-0.36		ppb
Cadmium	111-1	0.36	0.39	0.40	0.38	4.73	ppb
Calcium	43-1	189.44	189.01	191.84	190.10	0.80	ppb
Calcium	44-1	187.15	190.80	192.01	189.99	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.58	0.62	0.58	0.59	3.95	ppb
Cobalt	59-2	0.40	0.44	0.44	0.42	5.88	ppb
Copper	63-2	0.79	0.80	0.83	0.80	2.50	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				97		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	35.30	37.04	39.03	37.12	5.03	ppb
Iron	56-2	32.32	33.13	32.48	32.64	1.32	ppb
Iron	57-2	33.91	35.86	36.21	35.32	3.50	ppb
Krypton	83-1						cps
Lead	206-1	0.39	0.41	0.40	0.40	1.56	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.41	0.41	0.41	0.41	0.66	ppb
Lead	208-1	0.40	0.40	0.41	0.40	0.73	ppb
Lithium	6-1				102		%
Magnesium	24-2	217.63	222.39	218.30	219.44	1.18	ppb
Manganese	55-2	0.86	0.84	0.92	0.87	4.68	ppb
Molybdenum	94-1	1.02	1.02	1.08	1.04	3.46	ppb
Molybdenum	95-1	0.41	0.41	0.41	0.41	0.19	ppb
Molybdenum	96-1	0.46	0.48	0.46	0.47	3.13	ppb
Molybdenum	97-1	0.39	0.40	0.41	0.40	1.97	ppb
Molybdenum	98-1	0.39	0.40	0.40	0.40	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.42	0.42	0.51	0.45	10.97	ppb
Phosphorus	31-2	-13.76	-18.29	-13.72	-15.26		ppb
Potassium	39-2	124.31	122.38	127.23	124.64	1.96	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	4.07	4.31	3.94	4.11	4.53	ppb
Selenium	77-2	1.47	1.53	0.57	1.19	45.17	ppb
Selenium	78-2	8.73	4.00	3.26	5.33	55.74	ppb
Silicon	28-1	-0.17	0.00	-0.03	-0.07		ppb
Silver	107-1	0.39	0.41	0.40	0.40	2.79	ppb
Silver	109-1	0.40	0.39	0.40	0.39	2.00	ppb
Sodium	23-2	207.84	207.12	206.08	207.01	0.43	ppb
Strontium	86-1	0.38	0.39	0.37	0.38	3.16	ppb
Strontium	88-1	0.37	0.37	0.37	0.37	0.81	ppb
Sulfur	34-1	-129.32	-27.72	-68.68	-75.24		ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.37	0.37	0.36	0.37	1.33	ppb
Thallium	205-1	0.37	0.38	0.37	0.37	1.65	ppb
Tin	118-1	0.35	0.39	0.39	0.37	5.60	ppb
Titanium	47-1	0.41	0.39	0.37	0.39	5.31	ppb
Uranium	238-1	0.36	0.37	0.37	0.37	1.78	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.36	0.35	0.36	0.36	1.90	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	0.99	0.95	1.19	1.04	12.58	ppb
Zirconium	90-1	0.38	0.37	0.37	0.37	0.44	ppb
Zirconium	91-1	0.39	0.37	0.36	0.37	5.06	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48544.06	48577.80	49024.91	48715.59	0.55	ppb
Antimony	121-1	503.67	503.09	498.63	501.80	0.55	ppb
Arsenic	75-2	480.70	492.71	488.79	487.40	1.26	ppb
Barium	135-1	2529.52	2525.76	2549.01	2534.76	0.49	ppb
Barium	137-1	2517.37	2524.88	2565.40	2535.89	1.02	ppb
Beryllium	9-1	513.51	507.92	508.94	510.13	0.58	ppb
Bismuth	209-1				81		%
Bismuth	209-2				82		%
Bromine	81-1						cps
Cadmium	108-1	493.00	491.63	496.47	493.70	0.50	ppb
Cadmium	106-1	489.46	496.41	489.57	491.81	0.81	ppb
Cadmium	111-1	483.56	493.34	489.08	488.66	1.00	ppb
Calcium	43-1	253121.01	252161.02	249935.81	251739.28	0.65	ppb
Calcium	44-1	251377.28	252199.83	250698.88	251425.33	0.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	511.23	500.53	502.50	504.75	1.13	ppb
Cobalt	59-2	486.33	479.31	490.21	485.28	1.14	ppb
Copper	63-2	4699.08	4636.87	4692.85	4676.27	0.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				93		%
Indium	115-1				86		%
Indium	115-2				88		%
Iron	54-2	128738.37	124933.55	127427.03	127032.98	1.52	ppb
Iron	56-2	125564.39	125607.50	125180.80	125450.90	0.19	ppb
Iron	57-2	126261.18	124938.36	125731.07	125643.54	0.53	ppb
Krypton	83-1						cps
Lead	206-1	2586.52	2526.90	2550.84	2554.75	1.17	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2558.27	2527.90	2544.40	2543.53	0.60	ppb
Lead	208-1	2570.79	2535.95	2536.59	2547.77	0.78	ppb
Lithium	6-1				86		%
Magnesium	24-2	268684.61	265030.22	269458.32	267724.39	0.88	ppb
Manganese	55-2	4992.25	4975.56	4954.20	4974.00	0.38	ppb
Molybdenum	94-1	4960.45	5041.53	5028.27	5010.08	0.87	ppb
Molybdenum	95-1	4994.24	4991.83	5003.61	4996.56	0.12	ppb
Molybdenum	96-1	4946.81	4994.51	4978.50	4973.27	0.49	ppb
Molybdenum	97-1	4949.29	5020.55	4979.50	4983.12	0.72	ppb
Molybdenum	98-1	4998.39	5049.85	5021.20	5023.15	0.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	483.78	484.60	489.54	485.97	0.64	ppb
Phosphorus	31-2	9894.00	9963.86	9971.60	9943.15	0.43	ppb
Potassium	39-2	122496.41	122703.90	124149.55	123116.62	0.73	ppb
Rhodium	103-1				83		%
Rhodium	103-2				83		%
Scandium	45-1				91		%
Scandium	45-2				94		%
Selenium	82-1	474.19	480.75	472.36	475.77	0.93	ppb
Selenium	77-2	488.06	461.12	499.90	483.03	4.11	ppb
Selenium	78-2	478.42	481.85	459.88	473.38	2.50	ppb
Silicon	28-1	533.52	531.92	521.38	528.94	1.25	ppb
Silver	107-1	477.85	474.94	484.11	478.97	0.98	ppb
Silver	109-1	485.13	483.99	483.18	484.10	0.20	ppb
Sodium	23-2	248470.23	247127.13	249329.15	248308.84	0.45	ppb
Strontium	86-1	508.66	513.49	501.51	507.89	1.19	ppb
Strontium	88-1	495.77	506.35	500.48	500.86	1.06	ppb
Sulfur	34-1	10121.03	9744.15	9686.51	9850.57	2.40	ppb
Terbium	159-1				92		%
Terbium	159-2				94		%
Thallium	203-1	519.61	512.68	514.26	515.51	0.70	ppb
Thallium	205-1	515.62	513.76	507.63	512.34	0.82	ppb
Tin	118-1	499.45	499.33	499.80	499.53	0.05	ppb
Titanium	47-1	5036.44	5090.90	5073.36	5066.90	0.55	ppb
Uranium	238-1	529.83	526.86	527.18	527.96	0.31	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	481.66	475.46	479.84	478.99	0.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				95		%
Zinc	66-2	4728.63	4672.91	4717.30	4706.28	0.63	ppb
Zirconium	90-1	499.70	503.81	504.45	502.66	0.51	ppb
Zirconium	91-1	509.06	505.09	510.29	508.15	0.53	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.39	0.01	0.50	0.30	86.45	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	16.64	ppb
Arsenic	75-2	0.00	0.03	0.03	0.02	103.23	ppb
Barium	135-1	0.12	0.09	0.08	0.10	23.83	ppb
Barium	137-1	0.11	0.09	0.09	0.10	10.01	ppb
Beryllium	9-1	0.06	0.06	0.05	0.06	6.50	ppb
Bismuth	209-1				92		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.05	-0.04	0.03	0.01	325.39	ppb
Cadmium	106-1	-0.81	-1.32	-0.46	-0.86		ppb
Cadmium	111-1	-0.01	0.00	-0.01	-0.01		ppb
Calcium	43-1	0.68	-0.62	-1.16	-0.37		ppb
Calcium	44-1	-1.51	-1.87	-1.80	-1.72		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.06	0.01	0.04	59.20	ppb
Cobalt	59-2	0.01	0.01	0.02	0.01	28.82	ppb
Copper	63-2	-0.02	-0.03	-0.08	-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				93		%
Holmium	165-2				96		%
Indium	115-1				95		%
Indium	115-2				96		%
Iron	54-2	-3.10	-3.02	-3.74	-3.29		ppb
Iron	56-2	-6.96	-6.91	-6.99	-6.95		ppb
Iron	57-2	-3.94	-3.84	-3.09	-3.62		ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.10	0.10	0.10	5.26	ppb

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.11	0.10	0.11	8.82	ppb
Lead	208-1	0.11	0.10	0.09	0.10	8.20	ppb
Lithium	6-1				96		%
Magnesium	24-2	1.80	1.77	2.31	1.96	15.67	ppb
Manganese	55-2	0.10	0.13	0.09	0.10	18.44	ppb
Molybdenum	94-1	0.05	0.04	0.04	0.04	22.55	ppb
Molybdenum	95-1	0.04	0.03	0.02	0.03	26.83	ppb
Molybdenum	96-1	0.03	0.02	0.03	0.03	7.93	ppb
Molybdenum	97-1	0.03	0.02	0.02	0.02	36.33	ppb
Molybdenum	98-1	0.03	0.02	0.03	0.03	38.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.05	-0.02	-0.01		ppb
Phosphorus	31-2	-25.13	-32.08	-28.61	-28.61		ppb
Potassium	39-2	13.22	18.05	15.98	15.75	15.40	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				96		%
Scandium	45-2				95		%
Selenium	82-1	-0.22	-0.32	-0.22	-0.25		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	0.02	1.04	-0.50	0.19	420.37	ppb
Silicon	28-1	-0.44	-0.48	-0.52	-0.48		ppb
Silver	107-1	0.01	0.01	0.01	0.01	6.50	ppb
Silver	109-1	0.01	0.01	0.01	0.01	23.69	ppb
Sodium	23-2	25.99	28.33	26.23	26.85	4.80	ppb
Strontium	86-1	0.02	0.00	0.01	0.01	106.15	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	11.07	ppb
Sulfur	34-1	-274.55	-280.60	-314.96	-290.04		ppb
Terbium	159-1				94		%
Terbium	159-2				97		%
Thallium	203-1	0.02	0.02	0.02	0.02	7.97	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	11.75	ppb
Tin	118-1	-0.02	-0.01	-0.03	-0.02		ppb
Titanium	47-1	0.01	-0.02	-0.01	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00	98.10	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	281.15	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	-0.04	0.10	0.04	0.03	223.33	ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	47.24	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	194.01	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.08	7.95	7.62	7.89	3.00	ppb
Antimony	121-1	0.41	0.41	0.40	0.41	1.39	ppb
Arsenic	75-2	0.36	0.39	0.40	0.39	4.77	ppb
Barium	135-1	1.96	2.05	1.99	2.00	2.21	ppb
Barium	137-1	1.99	2.03	2.10	2.04	2.71	ppb
Beryllium	9-1	0.41	0.39	0.41	0.40	3.09	ppb
Bismuth	209-1				95		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.46	0.42	0.31	0.39	19.69	ppb
Cadmium	106-1	-0.80	-0.84	-0.67	-0.77		ppb
Cadmium	111-1	0.36	0.38	0.39	0.38	3.25	ppb
Calcium	43-1	190.65	191.72	187.21	189.86	1.24	ppb
Calcium	44-1	189.72	187.25	189.29	188.75	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.60	0.57	0.55	0.57	4.59	ppb
Cobalt	59-2	0.44	0.42	0.43	0.43	2.61	ppb
Copper	63-2	0.80	0.79	0.77	0.79	2.33	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				96		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	54-2	37.28	37.73	37.94	37.65	0.88	ppb
Iron	56-2	33.08	32.98	32.73	32.93	0.54	ppb
Iron	57-2	35.94	36.76	33.38	35.36	4.98	ppb
Krypton	83-1						cps
Lead	206-1	0.44	0.45	0.46	0.45	1.94	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.48	0.47	0.47	0.48	0.82	ppb
Lead	208-1	0.45	0.46	0.45	0.46	0.94	ppb
Lithium	6-1				100		%
Magnesium	24-2	214.58	216.67	214.47	215.24	0.58	ppb
Manganese	55-2	1.01	0.93	0.90	0.95	6.24	ppb
Molybdenum	94-1	0.97	0.99	1.01	0.99	2.21	ppb
Molybdenum	95-1	0.39	0.38	0.40	0.39	2.86	ppb
Molybdenum	96-1	0.45	0.45	0.48	0.46	3.26	ppb
Molybdenum	97-1	0.38	0.43	0.41	0.40	6.55	ppb
Molybdenum	98-1	0.41	0.39	0.41	0.40	2.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.52	0.48	0.42	0.47	10.06	ppb
Phosphorus	31-2	-21.81	-18.31	-21.85	-20.66		ppb
Potassium	39-2	126.91	132.35	129.58	129.61	2.10	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	4.58	4.53	4.61	4.57	0.92	ppb
Selenium	77-2	4.95	3.24	2.30	3.50	38.37	ppb
Selenium	78-2	3.82	3.87	3.02	3.57	13.32	ppb
Silicon	28-1	-0.15	-0.11	-0.21	-0.16		ppb
Silver	107-1	0.40	0.41	0.41	0.41	1.71	ppb
Silver	109-1	0.40	0.41	0.42	0.41	2.71	ppb
Sodium	23-2	216.44	213.17	212.97	214.19	0.91	ppb
Strontium	86-1	0.34	0.37	0.35	0.35	4.97	ppb
Strontium	88-1	0.37	0.37	0.36	0.37	0.88	ppb
Sulfur	34-1	-539.10	-575.95	-592.52	-569.19		ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	0.38	0.37	0.37	0.37	1.01	ppb
Thallium	205-1	0.38	0.38	0.37	0.37	1.46	ppb
Tin	118-1	0.38	0.40	0.38	0.39	2.26	ppb
Titanium	47-1	0.40	0.37	0.36	0.38	5.94	ppb
Uranium	238-1	0.37	0.36	0.36	0.36	1.35	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.36	0.44	0.39	11.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	1.16	1.01	1.15	1.10	7.38	ppb
Zirconium	90-1	0.37	0.36	0.37	0.37	1.30	ppb
Zirconium	91-1	0.38	0.35	0.36	0.37	3.98	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.67	-0.37	0.08	0.13	412.11	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	57.93	ppb
Arsenic	75-2	0.01	0.01	0.03	0.02	86.51	ppb
Barium	135-1	0.01	0.02	0.00	0.01	99.32	ppb
Barium	137-1	0.02	0.01	0.01	0.01	24.43	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	14.45	ppb
Bismuth	209-1				95		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.09	-0.02	0.03	0.03	155.59	ppb
Cadmium	106-1	-1.26	-1.17	-1.42	-1.29		ppb
Cadmium	111-1	-0.03	-0.02	-0.03	-0.03		ppb
Calcium	43-1	-2.01	-2.22	-0.54	-1.59		ppb
Calcium	44-1	-2.12	-2.61	-2.21	-2.31		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.01	0.04	0.04	67.29	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	21.78	ppb
Copper	63-2	-0.04	-0.04	-0.01	-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				95		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	54-2	-3.80	-3.10	-3.62	-3.50		ppb
Iron	56-2	-7.10	-7.21	-7.15	-7.15		ppb
Iron	57-2	-3.80	-3.41	-3.72	-3.64		ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.04	0.04	5.26	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.04	0.04	7.93	ppb
Lead	208-1	0.04	0.04	0.04	0.04	1.74	ppb
Lithium	6-1				100		%
Magnesium	24-2	2.43	1.98	2.49	2.30	12.09	ppb
Manganese	55-2	0.07	0.12	0.06	0.08	41.02	ppb
Molybdenum	94-1	0.01	0.00	0.01	0.01	158.32	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	25.95	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	108.31	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	27.66	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	135.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	0.04	0.14	0.07	78.61	ppb
Phosphorus	31-2	-32.62	-22.10	-33.70	-29.47		ppb
Potassium	39-2	8.96	7.83	10.53	9.11	14.92	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	-0.08	-0.26	-0.28	-0.21		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.25	0.76	-0.25	0.09	657.17	ppb
Silicon	28-1	-0.85	-0.98	-1.00	-0.94		ppb
Silver	107-1	0.00	0.00	0.00	0.00	51.89	ppb
Silver	109-1	0.00	0.00	0.00	0.00	26.91	ppb
Sodium	23-2	11.87	11.76	12.58	12.07	3.70	ppb
Strontium	86-1	0.01	0.01	0.00	0.01	72.90	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	31.53	ppb
Sulfur	34-1	-137.19	-285.59	-205.49	-209.42		ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.01	0.01	0.01	33.95	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	9.21	ppb
Tin	118-1	-0.03	-0.03	-0.03	-0.03		ppb
Titanium	47-1	-0.02	-0.01	0.00	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	1278.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				99		%
Zinc	66-2	-0.01	-0.12	0.06	-0.02		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	40.56	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	37.90	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.03	37.59	38.41	38.01	1.08	ppb
Antimony	121-1	3.81	3.85	3.90	3.85	1.21	ppb
Arsenic	75-2	2.02	2.26	2.14	2.14	5.55	ppb
Barium	135-1	19.20	19.77	19.87	19.61	1.84	ppb
Barium	137-1	19.65	19.73	20.02	19.80	0.98	ppb
Beryllium	9-1	1.93	1.90	1.90	1.91	0.78	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.94	2.28	2.26	2.16	8.73	ppb
Cadmium	106-1	1.31	0.90	1.27	1.16	19.66	ppb
Cadmium	111-1	1.98	1.96	2.03	1.99	1.73	ppb
Calcium	43-1	950.01	971.36	994.36	971.91	2.28	ppb
Calcium	44-1	966.01	973.11	989.71	976.28	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.81	3.96	3.82	3.86	2.19	ppb
Cobalt	59-2	2.02	2.02	2.07	2.04	1.58	ppb
Copper	63-2	4.55	4.37	4.42	4.45	2.03	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				94		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	54-2	423.35	417.19	408.76	416.43	1.76	ppb
Iron	56-2	417.42	406.17	407.41	410.33	1.50	ppb
Iron	57-2	407.21	411.43	414.57	411.07	0.90	ppb
Krypton	83-1						cps
Lead	206-1	1.90	1.93	1.94	1.93	1.10	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.95	1.90	1.94	1.93	1.42	ppb
Lead	208-1	1.92	1.92	1.95	1.93	0.68	ppb
Lithium	6-1				99		%
Magnesium	24-2	1058.43	1042.30	1025.13	1041.95	1.60	ppb
Manganese	55-2	2.23	2.12	2.19	2.18	2.53	ppb
Molybdenum	94-1	11.39	11.24	11.47	11.36	1.03	ppb
Molybdenum	95-1	9.37	9.45	9.68	9.50	1.71	ppb
Molybdenum	96-1	9.57	9.45	9.71	9.58	1.36	ppb
Molybdenum	97-1	9.38	9.54	9.57	9.50	1.08	ppb
Molybdenum	98-1	9.35	9.34	9.56	9.42	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.07	1.97	1.93	1.99	3.73	ppb
Phosphorus	31-2	42.31	24.87	6.51	24.56	72.90	ppb
Potassium	39-2	987.48	946.30	957.26	963.68	2.21	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				96		%
Scandium	45-2				95		%
Selenium	82-1	9.93	10.10	10.11	10.05	0.99	ppb
Selenium	77-2	9.73	9.73	13.42	10.96	19.41	ppb
Selenium	78-2	8.53	9.32	12.54	10.13	21.02	ppb
Silicon	28-1	6.83	7.07	7.25	7.05	3.01	ppb
Silver	107-1	1.96	2.01	2.01	1.99	1.36	ppb
Silver	109-1	1.95	2.02	2.02	1.99	1.98	ppb
Sodium	23-2	1024.19	1016.63	992.27	1011.03	1.65	ppb
Strontium	86-1	1.86	1.81	1.87	1.85	1.76	ppb
Strontium	88-1	1.80	1.83	1.87	1.84	1.99	ppb
Sulfur	34-1	-170.74	-156.20	-71.51	-132.82		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	1.82	1.85	1.86	1.84	1.08	ppb
Thallium	205-1	1.85	1.81	1.83	1.83	0.97	ppb
Tin	118-1	9.79	9.92	9.99	9.90	1.02	ppb
Titanium	47-1	11.05	11.32	11.44	11.27	1.78	ppb
Uranium	238-1	1.82	1.80	1.82	1.81	0.77	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.97	9.80	9.82	9.86	0.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				95		%
Zinc	66-2	11.13	9.96	10.24	10.44	5.84	ppb
Zirconium	90-1	1.88	1.88	1.94	1.90	1.61	ppb
Zirconium	91-1	1.85	1.88	1.94	1.89	2.28	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.29	0.30	0.37	0.32	13.23	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	18.77	ppb
Arsenic	75-2	0.00	0.00	0.01	0.00	3555.93	ppb
Barium	135-1	0.00	0.00	0.01	0.00	304.45	ppb
Barium	137-1	0.01	0.01	0.01	0.01	18.13	ppb
Beryllium	9-1	0.01	0.00	0.00	0.01	79.41	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.00	-0.04	0.00		ppb
Cadmium	106-1	-1.29	-1.70	-0.99	-1.33		ppb
Cadmium	111-1	-0.03	-0.03	-0.02	-0.03		ppb
Calcium	43-1	-0.44	-1.70	-0.31	-0.82		ppb
Calcium	44-1	-1.66	-2.64	-2.59	-2.30		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.01	0.04	0.03	74.56	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	4.69	ppb
Copper	63-2	-0.06	-0.05	-0.05	-0.05		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	-3.90	-2.41	-3.51	-3.28		ppb
Iron	56-2	-7.21	-7.09	-7.38	-7.23		ppb
Iron	57-2	-3.91	-4.16	-4.31	-4.12		ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.03	0.04	20.15	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.04	0.02	0.03	21.07	ppb
Lead	208-1	0.03	0.03	0.03	0.03	13.78	ppb
Lithium	6-1				99		%
Magnesium	24-2	2.36	2.64	2.34	2.44	6.99	ppb
Manganese	55-2	0.11	0.07	0.09	0.09	23.51	ppb
Molybdenum	94-1	0.01	-0.01	0.00	0.00	233.34	ppb
Molybdenum	95-1	0.01	0.01	0.00	0.00	132.95	ppb
Molybdenum	96-1	0.01	0.00	0.01	0.01	28.16	ppb
Molybdenum	97-1	0.01	0.00	0.01	0.01	119.34	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.07	0.02	0.05	48.02	ppb
Phosphorus	31-2	-35.46	-26.17	-27.12	-29.58		ppb
Potassium	39-2	8.58	5.15	6.84	6.86	25.05	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	-0.38	0.06	0.04	-0.09		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.50	0.86	-0.24	0.04	1879.11	ppb
Silicon	28-1	-0.52	-0.76	-0.65	-0.64		ppb
Silver	107-1	0.01	0.01	0.01	0.01	26.51	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.90	ppb
Sodium	23-2	9.37	9.84	10.36	9.86	4.99	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	46.53	ppb
Sulfur	34-1	-156.84	-326.92	-258.38	-247.38		ppb
Terbium	159-1				94		%
Terbium	159-2				94		%
Thallium	203-1	0.01	0.01	0.01	0.01	28.99	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	15.11	ppb
Tin	118-1	-0.03	0.01	-0.02	-0.01		ppb
Titanium	47-1	0.00	-0.02	-0.02	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	148.58	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				94		%
Zinc	66-2	0.18	-0.06	0.06	0.06	203.14	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	65.94	ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	284.46	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.01	41.12	38.45	40.19	3.75	ppb
Antimony	121-1	3.95	3.91	3.89	3.92	0.69	ppb
Arsenic	75-2	2.46	2.25	2.16	2.29	6.57	ppb
Barium	135-1	19.74	19.79	19.71	19.74	0.20	ppb
Barium	137-1	20.16	19.89	20.05	20.03	0.70	ppb
Beryllium	9-1	1.97	1.97	1.94	1.96	1.06	ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.20	2.00	2.03	2.08	5.24	ppb
Cadmium	106-1	1.44	0.47	1.02	0.98	49.57	ppb
Cadmium	111-1	2.08	1.93	2.05	2.02	4.10	ppb
Calcium	43-1	1012.88	1005.68	1014.98	1011.18	0.48	ppb
Calcium	44-1	1001.32	978.35	989.81	989.83	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.85	3.67	3.61	3.71	3.37	ppb
Cobalt	59-2	2.03	2.08	2.03	2.05	1.54	ppb
Copper	63-2	4.46	4.57	4.45	4.49	1.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				96		%
Iron	54-2	423.70	424.54	427.77	425.33	0.51	ppb
Iron	56-2	415.44	413.81	413.00	414.08	0.30	ppb
Iron	57-2	425.03	407.75	416.03	416.27	2.08	ppb
Krypton	83-1						cps
Lead	206-1	1.95	1.97	1.96	1.96	0.40	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.97	1.94	1.98	1.96	1.14	ppb
Lead	208-1	1.97	1.95	1.96	1.96	0.34	ppb
Lithium	6-1				98		%
Magnesium	24-2	1056.56	1060.61	1051.87	1056.35	0.41	ppb
Manganese	55-2	2.04	2.22	2.12	2.13	4.09	ppb
Molybdenum	94-1	11.64	11.33	11.48	11.49	1.36	ppb
Molybdenum	95-1	9.72	9.57	9.77	9.69	1.07	ppb
Molybdenum	96-1	9.91	9.65	9.85	9.80	1.39	ppb
Molybdenum	97-1	9.78	9.41	9.72	9.64	2.05	ppb
Molybdenum	98-1	9.65	9.63	9.56	9.61	0.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.90	2.23	2.22	2.12	9.01	ppb
Phosphorus	31-2	29.99	12.15	28.42	23.52	41.98	ppb
Potassium	39-2	985.18	1007.54	975.46	989.39	1.66	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	9.89	9.42	10.33	9.88	4.59	ppb
Selenium	77-2	9.61	9.52	6.94	8.69	17.46	ppb
Selenium	78-2	8.41	13.27	11.34	11.01	22.19	ppb
Silicon	28-1	7.28	6.85	7.07	7.07	3.01	ppb
Silver	107-1	1.98	2.00	2.00	1.99	0.67	ppb
Silver	109-1	2.05	2.09	2.01	2.05	1.89	ppb
Sodium	23-2	1024.60	1026.72	1019.37	1023.56	0.37	ppb
Strontium	86-1	1.86	1.91	1.83	1.87	2.06	ppb
Strontium	88-1	1.86	1.89	1.86	1.87	0.81	ppb
Sulfur	34-1	-77.29	-256.72	-143.35	-159.12		ppb
Terbium	159-1				94		%
Terbium	159-2				96		%
Thallium	203-1	1.89	1.89	1.89	1.89	0.15	ppb
Thallium	205-1	1.85	1.86	1.89	1.87	1.15	ppb
Tin	118-1	9.97	9.93	9.87	9.93	0.53	ppb
Titanium	47-1	9.94	9.77	9.96	9.89	1.08	ppb
Uranium	238-1	1.80	1.85	1.83	1.83	1.27	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.94	10.02	9.86	9.94	0.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				96		%
Zinc	66-2	10.63	10.62	10.47	10.57	0.86	ppb
Zirconium	90-1	1.98	1.95	1.93	1.95	1.48	ppb
Zirconium	91-1	1.95	1.96	1.89	1.93	1.81	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.23	0.11	0.34	0.23	51.85	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	68.15	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	8470.70	ppb
Barium	135-1	0.01	0.01	-0.01	0.00	314.26	ppb
Barium	137-1	0.02	0.01	0.00	0.01	176.00	ppb
Beryllium	9-1	0.01	0.00	0.00	0.00	83.65	ppb
Bismuth	209-1				88		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.07	0.00	0.02	195.25	ppb
Cadmium	106-1	-1.56	-1.92	-1.62	-1.70		ppb
Cadmium	111-1	-0.03	-0.05	-0.04	-0.04		ppb
Calcium	43-1	1.73	-1.44	-1.22	-0.31		ppb
Calcium	44-1	-0.29	-1.73	-2.33	-1.45		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.01	0.02	0.02	29.09	ppb
Cobalt	59-2	0.00	0.01	0.01	0.00	42.67	ppb
Copper	63-2	-0.02	-0.03	-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				89		%
Holmium	165-2				95		%
Indium	115-1				90		%
Indium	115-2				96		%
Iron	54-2	-2.83	-3.24	-3.18	-3.09		ppb
Iron	56-2	-6.65	-6.68	-6.54	-6.62		ppb
Iron	57-2	-3.20	-3.48	-3.17	-3.28		ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.01	0.03	0.03	54.49	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.02	0.03	0.03	26.43	ppb
Lead	208-1	0.04	0.02	0.02	0.03	36.61	ppb
Lithium	6-1				93		%
Magnesium	24-2	2.84	2.48	2.19	2.50	12.88	ppb
Manganese	55-2	0.06	0.07	0.05	0.06	17.72	ppb
Molybdenum	94-1	0.00	-0.01	-0.01	-0.01		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	334.08	ppb
Molybdenum	96-1	0.01	0.01	0.00	0.00	65.97	ppb
Molybdenum	97-1	0.00	0.00	0.01	0.00	206.04	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	913.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.05	0.03	-0.04	0.01	340.76	ppb
Phosphorus	31-2	-39.72	-29.65	-31.15	-33.51		ppb
Potassium	39-2	5.25	5.68	7.94	6.29	22.98	ppb
Rhodium	103-1				91		%
Rhodium	103-2				96		%
Scandium	45-1				90		%
Scandium	45-2				96		%
Selenium	82-1	0.02	-0.12	-0.32	-0.14		ppb
Selenium	77-2	-0.29	-0.29	0.62	0.02	3210.02	ppb
Selenium	78-2	-0.25	0.30	0.30	0.12	269.60	ppb
Silicon	28-1	1.11	-0.50	-0.51	0.03	3124.95	ppb
Silver	107-1	0.00	0.00	0.00	0.00	81.59	ppb
Silver	109-1	0.00	0.00	0.00	0.00	22.75	ppb
Sodium	23-2	7.93	8.98	8.49	8.47	6.23	ppb
Strontium	86-1	0.01	0.01	0.01	0.01	42.55	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	16.61	ppb
Sulfur	34-1	980.63	28.80	-43.84	321.86	177.61	ppb
Terbium	159-1				89		%
Terbium	159-2				96		%
Thallium	203-1	0.00	0.01	0.01	0.01	29.39	ppb
Thallium	205-1	0.01	0.00	0.00	0.01	35.46	ppb
Tin	118-1	0.00	-0.01	-0.03	-0.01		ppb
Titanium	47-1	0.00	0.01	-0.02	0.00		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				95		%
Zinc	66-2	0.02	-0.01	-0.05	-0.02		ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	246.28	ppb
Zirconium	91-1	0.01	0.00	0.01	0.00	169.78	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8329.58	9183.63	9520.02	9011.08	6.81	ppb
Antimony	121-1	511.15	514.87	515.60	513.88	0.46	ppb
Arsenic	75-2	453.47	497.09	507.62	486.06	5.91	ppb
Barium	135-1	2555.55	2572.63	2551.25	2559.81	0.44	ppb
Barium	137-1	2558.00	2563.13	2536.34	2552.49	0.56	ppb
Beryllium	9-1	510.26	503.99	499.37	504.54	1.08	ppb
Bismuth	209-1				89		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	518.40	520.44	522.16	520.34	0.36	ppb
Cadmium	106-1	511.93	526.54	510.69	516.39	1.71	ppb
Cadmium	111-1	517.45	523.59	524.04	521.69	0.71	ppb
Calcium	43-1	50512.60	51912.45	51224.23	51216.43	1.37	ppb
Calcium	44-1	50171.85	51271.62	50373.04	50605.50	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	460.11	497.54	509.60	489.09	5.28	ppb
Cobalt	59-2	465.94	508.60	511.41	495.32	5.14	ppb
Copper	63-2	4591.18	5003.78	5124.78	4906.58	5.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				100		%
Indium	115-1				93		%
Indium	115-2				97		%
Iron	54-2	24085.28	25994.41	26901.75	25660.48	5.60	ppb
Iron	56-2	23365.86	25425.47	25867.86	24886.40	5.37	ppb
Iron	57-2	23833.55	25591.96	26166.40	25197.30	4.82	ppb
Krypton	83-1						cps
Lead	206-1	2485.40	2510.30	2538.11	2511.27	1.05	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2485.13	2511.86	2494.01	2497.00	0.55	ppb
Lead	208-1	2482.00	2514.59	2501.52	2499.37	0.66	ppb
Lithium	6-1				92		%
Magnesium	24-2	49036.42	53458.27	54631.27	52375.32	5.63	ppb
Manganese	55-2	4637.94	5070.42	5120.55	4942.97	5.37	ppb
Molybdenum	94-1	5120.96	4995.47	5100.07	5072.17	1.33	ppb
Molybdenum	95-1	5116.27	5018.77	5174.31	5103.12	1.54	ppb
Molybdenum	96-1	5028.82	5010.08	5061.05	5033.32	0.51	ppb
Molybdenum	97-1	4963.35	4987.63	5058.24	5003.07	0.99	ppb
Molybdenum	98-1	5036.77	4979.21	5090.07	5035.35	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	430.00	469.74	481.58	460.44	5.87	ppb
Phosphorus	31-2	8959.72	9895.69	10335.22	9730.21	7.22	ppb
Potassium	39-2	22266.55	24050.38	24794.64	23703.85	5.48	ppb
Rhodium	103-1				90		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				101		%
Selenium	82-1	512.39	496.20	506.69	505.09	1.63	ppb
Selenium	77-2	451.83	520.36	517.53	496.57	7.81	ppb
Selenium	78-2	467.09	494.01	510.92	490.68	4.50	ppb
Silicon	28-1	521.50	523.92	505.70	517.04	1.91	ppb
Silver	107-1	519.00	524.68	518.56	520.75	0.65	ppb
Silver	109-1	517.35	530.50	529.61	525.82	1.40	ppb
Sodium	23-2	45386.46	49846.67	51092.24	48775.12	6.15	ppb
Strontium	86-1	505.15	503.33	517.25	508.58	1.49	ppb
Strontium	88-1	498.31	506.31	504.72	503.11	0.84	ppb
Sulfur	34-1	10326.62	10454.00	10146.94	10309.19	1.50	ppb
Terbium	159-1				95		%
Terbium	159-2				101		%
Thallium	203-1	505.17	506.17	505.17	505.50	0.11	ppb
Thallium	205-1	507.02	501.95	499.35	502.77	0.78	ppb
Tin	118-1	507.31	519.58	515.86	514.25	1.22	ppb
Titanium	47-1	4986.65	5187.94	5059.81	5078.13	2.01	ppb
Uranium	238-1	494.73	501.21	495.29	497.08	0.72	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	432.41	475.17	489.53	465.70	6.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				102		%
Zinc	66-2	4652.95	5151.44	5290.56	5031.65	6.66	ppb
Zirconium	90-1	505.23	498.55	502.57	502.12	0.67	ppb
Zirconium	91-1	516.71	504.57	512.54	511.27	1.21	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.14	0.20	0.55	0.30	73.44	ppb
Antimony	121-1	0.04	0.05	0.03	0.04	19.75	ppb
Arsenic	75-2	0.03	0.01	0.01	0.02	84.56	ppb
Barium	135-1	0.07	0.07	0.07	0.07	0.99	ppb
Barium	137-1	0.12	0.07	0.08	0.09	24.14	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	8.43	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.09	0.04	0.06	44.05	ppb
Cadmium	106-1	-1.39	-1.59	-1.09	-1.36		ppb
Cadmium	111-1	-0.01	-0.02	-0.01	-0.02		ppb
Calcium	43-1	0.03	1.24	-0.07	0.40	181.16	ppb
Calcium	44-1	-0.70	-1.25	-0.93	-0.96		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.02	0.03	0.03	23.81	ppb
Cobalt	59-2	0.01	0.02	0.02	0.02	15.57	ppb
Copper	63-2	0.05	0.02	0.00	0.03	88.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	-3.54	-3.54	-3.48	-3.52		ppb
Iron	56-2	-7.15	-7.04	-7.07	-7.09		ppb
Iron	57-2	-4.35	-2.72	-3.75	-3.61		ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.10	0.07	0.09	14.27	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.09	0.08	0.09	13.15	ppb
Lead	208-1	0.10	0.09	0.08	0.09	8.58	ppb
Lithium	6-1				97		%
Magnesium	24-2	2.69	3.10	3.32	3.03	10.56	ppb
Manganese	55-2	0.21	0.28	0.24	0.25	13.20	ppb
Molybdenum	94-1	0.10	0.09	0.08	0.09	10.98	ppb
Molybdenum	95-1	0.10	0.08	0.08	0.09	15.11	ppb
Molybdenum	96-1	0.09	0.06	0.08	0.08	21.21	ppb
Molybdenum	97-1	0.09	0.08	0.06	0.08	19.44	ppb
Molybdenum	98-1	0.09	0.08	0.08	0.08	8.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.07	0.03	-0.02		ppb
Phosphorus	31-2	-37.21	-26.09	-33.54	-32.28		ppb
Potassium	39-2	12.52	9.72	10.17	10.81	13.93	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	0.00	-0.06	-0.02	-0.03		ppb
Selenium	77-2	-0.29	0.62	-0.29	0.01	3613.16	ppb
Selenium	78-2	-0.24	0.29	1.08	0.38	176.89	ppb
Silicon	28-1	-0.34	-0.76	-0.69	-0.60		ppb
Silver	107-1	0.03	0.02	0.02	0.02	25.80	ppb
Silver	109-1	0.02	0.02	0.02	0.02	17.37	ppb
Sodium	23-2	13.08	11.74	13.27	12.70	6.56	ppb
Strontium	86-1	0.02	0.00	0.01	0.01	71.41	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	13.51	ppb
Sulfur	34-1	-303.56	-510.38	-447.64	-420.53		ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	0.03	0.02	0.01	0.02	30.49	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	13.11	ppb
Tin	118-1	0.00	-0.01	0.00	0.00		ppb
Titanium	47-1	0.04	0.03	0.03	0.03	28.11	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	24.18	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.00	0.01	37.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	0.23	0.09	0.22	0.18	43.12	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	7.06	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	41.23	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9299.44	9302.89	9668.26	9423.53	2.25	ppb
Antimony	121-1	505.47	502.24	499.14	502.29	0.63	ppb
Arsenic	75-2	497.09	504.80	521.31	507.73	2.44	ppb
Barium	135-1	2483.08	2506.34	2484.02	2491.15	0.53	ppb
Barium	137-1	2481.73	2520.72	2489.25	2497.23	0.83	ppb
Beryllium	9-1	495.59	493.93	485.38	491.63	1.11	ppb
Bismuth	209-1				91		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	501.60	502.35	503.50	502.49	0.19	ppb
Cadmium	106-1	499.51	502.15	498.91	500.19	0.35	ppb
Cadmium	111-1	515.26	511.01	503.13	509.80	1.21	ppb
Calcium	43-1	50442.79	50224.36	49365.03	50010.73	1.14	ppb
Calcium	44-1	50216.04	49969.46	49520.58	49902.03	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	510.84	496.71	530.75	512.77	3.33	ppb
Cobalt	59-2	511.26	501.89	532.13	515.09	3.01	ppb
Copper	63-2	5080.30	5102.76	5269.14	5150.73	2.00	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				96		%
Holmium	165-2				96		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	54-2	26180.09	25871.45	27769.24	26606.93	3.83	ppb
Iron	56-2	25892.68	25387.81	26740.89	26007.13	2.63	ppb
Iron	57-2	26112.41	25667.52	27654.07	26478.00	3.94	ppb
Krypton	83-1						cps
Lead	206-1	2449.21	2464.11	2513.69	2475.67	1.36	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2448.14	2433.76	2495.22	2459.04	1.31	ppb
Lead	208-1	2454.81	2444.64	2496.58	2465.34	1.12	ppb
Lithium	6-1				94		%
Magnesium	24-2	54560.39	54225.14	56318.17	55034.57	2.04	ppb
Manganese	55-2	5022.67	5022.09	5280.18	5108.31	2.91	ppb
Molybdenum	94-1	4927.05	4991.93	4967.39	4962.13	0.66	ppb
Molybdenum	95-1	4947.68	4984.49	4979.45	4970.54	0.40	ppb
Molybdenum	96-1	4971.13	4903.80	4904.66	4926.53	0.78	ppb
Molybdenum	97-1	4956.10	4947.23	4895.10	4932.81	0.67	ppb
Molybdenum	98-1	4984.81	4996.45	4923.36	4968.21	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	477.06	472.22	494.93	481.40	2.48	ppb
Phosphorus	31-2	10029.93	10162.55	10175.47	10122.65	0.80	ppb
Potassium	39-2	24603.30	24808.97	25484.24	24965.51	1.85	ppb
Rhodium	103-1				93		%
Rhodium	103-2				91		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	493.46	489.36	495.16	492.66	0.61	ppb
Selenium	77-2	512.11	515.99	519.97	516.02	0.76	ppb
Selenium	78-2	484.74	487.13	500.45	490.78	1.72	ppb
Silicon	28-1	513.40	509.62	503.87	508.97	0.94	ppb
Silver	107-1	507.02	515.81	503.62	508.82	1.24	ppb
Silver	109-1	508.01	513.78	508.99	510.26	0.61	ppb
Sodium	23-2	50646.46	50535.40	52549.72	51243.86	2.21	ppb
Strontium	86-1	504.12	500.97	500.95	502.01	0.36	ppb
Strontium	88-1	488.44	493.40	493.97	491.94	0.62	ppb
Sulfur	34-1	9972.73	9832.24	9291.85	9698.94	3.71	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	493.79	493.47	509.84	499.03	1.88	ppb
Thallium	205-1	490.22	487.90	501.89	493.34	1.52	ppb
Tin	118-1	508.98	506.96	508.87	508.27	0.22	ppb
Titanium	47-1	5027.78	5079.66	4938.56	5015.33	1.42	ppb
Uranium	238-1	486.15	483.26	490.83	486.75	0.79	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	482.76	477.61	498.88	486.42	2.28	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	5206.91	5099.81	5374.98	5227.23	2.65	ppb
Zirconium	90-1	490.91	494.92	493.21	493.01	0.41	ppb
Zirconium	91-1	491.82	498.14	495.99	495.32	0.65	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.09	0.19	-0.17	0.04	495.69	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	14.05	ppb
Arsenic	75-2	0.02	0.00	0.02	0.01	114.34	ppb
Barium	135-1	0.05	0.06	0.07	0.06	16.88	ppb
Barium	137-1	0.08	0.07	0.07	0.07	9.17	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	10.26	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.05	-0.01	0.04	106.83	ppb
Cadmium	106-1	-0.54	-2.09	-2.07	-1.57		ppb
Cadmium	111-1	0.00	-0.05	-0.04	-0.03		ppb
Calcium	43-1	-0.25	0.06	-0.41	-0.20		ppb
Calcium	44-1	-0.34	-0.94	-0.99	-0.76		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.00	0.02	0.01	74.75	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	32.79	ppb
Copper	63-2	-0.10	-0.08	-0.08	-0.09		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	54-2	-4.19	-4.68	-4.45	-4.44		ppb
Iron	56-2	-7.95	-7.97	-7.93	-7.95		ppb
Iron	57-2	-4.76	-4.71	-4.90	-4.79		ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.07	0.07	6.93	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.06	0.07	0.07	16.50	ppb
Lead	208-1	0.07	0.07	0.07	0.07	8.07	ppb
Lithium	6-1				98		%
Magnesium	24-2	-0.16	-0.31	-0.04	-0.17		ppb
Manganese	55-2	0.18	0.16	0.18	0.17	7.26	ppb
Molybdenum	94-1	0.06	0.05	0.04	0.05	18.17	ppb
Molybdenum	95-1	0.07	0.04	0.04	0.05	31.11	ppb
Molybdenum	96-1	0.07	0.05	0.05	0.05	24.89	ppb
Molybdenum	97-1	0.06	0.04	0.06	0.06	20.12	ppb
Molybdenum	98-1	0.05	0.05	0.04	0.05	13.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.01	0.00	0.08	0.02	224.04	ppb
Phosphorus	31-2	-37.17	-31.27	-29.00	-32.48		ppb
Potassium	39-2	8.47	8.92	9.58	8.99	6.23	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				96		%
Selenium	82-1	-0.01	-0.29	0.09	-0.07		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.24	-0.24	-0.25	-0.24		ppb
Silicon	28-1	-0.43	-0.31	-0.36	-0.36		ppb
Silver	107-1	0.01	0.01	0.01	0.01	22.04	ppb
Silver	109-1	0.02	0.01	0.01	0.01	16.20	ppb
Sodium	23-2	12.47	11.01	10.56	11.35	8.80	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	57.75	ppb
Strontium	88-1	0.01	0.00	0.00	0.01	33.72	ppb
Sulfur	34-1	-686.40	-594.80	-685.59	-655.60		ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.02	0.02	0.02	8.89	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	15.90	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.03	0.02	0.00	0.02	85.83	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	47.04	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	120.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				97		%
Zinc	66-2	0.11	0.13	0.10	0.11	15.62	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	67.61	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	32.31	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48744.26	49449.09	48640.47	48944.61	0.90	ppb
Antimony	121-1	487.98	496.35	497.61	493.98	1.06	ppb
Arsenic	75-2	479.04	489.90	485.71	484.88	1.13	ppb
Barium	135-1	2476.80	2490.58	2519.30	2495.56	0.87	ppb
Barium	137-1	2490.05	2515.09	2520.52	2508.55	0.65	ppb
Beryllium	9-1	497.70	512.21	497.39	502.43	1.69	ppb
Bismuth	209-1				81		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	483.12	485.82	488.10	485.68	0.51	ppb
Cadmium	106-1	474.36	478.29	483.92	478.85	1.00	ppb
Cadmium	111-1	468.56	483.92	485.61	479.36	1.96	ppb
Calcium	43-1	245168.39	252522.00	253519.01	250403.13	1.82	ppb
Calcium	44-1	244910.44	252016.34	256234.24	251053.67	2.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	486.27	499.57	499.77	495.21	1.56	ppb
Cobalt	59-2	477.91	499.67	490.85	489.48	2.24	ppb
Copper	63-2	4593.09	4723.36	4682.68	4666.38	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				91		%
Holmium	165-2				92		%
Indium	115-1				85		%
Indium	115-2				87		%
Iron	54-2	124781.41	127235.20	127843.95	126620.19	1.28	ppb
Iron	56-2	125098.92	127700.98	126092.97	126297.63	1.04	ppb
Iron	57-2	124618.58	128998.34	124948.03	126188.32	1.93	ppb
Krypton	83-1						cps
Lead	206-1	2456.80	2533.60	2607.65	2532.68	2.98	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2451.97	2540.22	2593.03	2528.41	2.82	ppb
Lead	208-1	2444.81	2543.39	2592.61	2526.94	2.98	ppb
Lithium	6-1				85		%
Magnesium	24-2	265179.13	274063.61	266011.49	268418.07	1.83	ppb
Manganese	55-2	4933.42	5055.12	5016.24	5001.59	1.24	ppb
Molybdenum	94-1	5011.84	5097.84	5049.98	5053.22	0.85	ppb
Molybdenum	95-1	4980.90	5104.18	5060.19	5048.42	1.24	ppb
Molybdenum	96-1	4949.76	5082.55	5002.66	5011.66	1.33	ppb
Molybdenum	97-1	4977.01	5040.66	5017.74	5011.80	0.64	ppb
Molybdenum	98-1	4960.69	5006.13	5006.37	4991.06	0.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	475.89	495.73	488.14	486.59	2.06	ppb
Phosphorus	31-2	9713.59	10219.27	10103.05	10011.97	2.65	ppb
Potassium	39-2	121261.89	122969.48	122623.46	122284.94	0.74	ppb
Rhodium	103-1				81		%
Rhodium	103-2				82		%
Scandium	45-1				89		%
Scandium	45-2				91		%
Selenium	82-1	467.99	479.00	472.98	473.32	1.17	ppb
Selenium	77-2	491.56	497.81	481.53	490.30	1.67	ppb
Selenium	78-2	478.31	483.49	452.99	471.59	3.46	ppb
Silicon	28-1	527.69	534.85	534.65	532.40	0.77	ppb
Silver	107-1	468.75	477.36	476.90	474.34	1.02	ppb
Silver	109-1	480.70	485.84	485.84	484.12	0.61	ppb
Sodium	23-2	244735.70	252562.82	247540.76	248279.76	1.60	ppb
Strontium	86-1	499.83	506.80	509.46	505.36	0.98	ppb
Strontium	88-1	490.51	504.88	496.02	497.14	1.46	ppb
Sulfur	34-1	9975.23	9914.68	10010.25	9966.72	0.49	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	501.45	516.62	518.95	512.34	1.85	ppb
Thallium	205-1	501.08	512.14	520.02	511.08	1.86	ppb
Tin	118-1	498.85	504.04	501.28	501.39	0.52	ppb
Titanium	47-1	5006.66	5076.18	5160.33	5081.06	1.51	ppb
Uranium	238-1	511.31	524.13	532.93	522.79	2.08	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	473.76	485.53	476.62	478.64	1.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				91		%
Yttrium	89-2				92		%
Zinc	66-2	4672.32	4855.35	4774.35	4767.34	1.92	ppb
Zirconium	90-1	500.13	508.46	511.96	506.85	1.20	ppb
Zirconium	91-1	504.41	507.96	512.64	508.34	0.81	ppb

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Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.09	1.82	1.36	1.42	25.79	ppb
Antimony	121-1	0.11	0.10	0.10	0.10	7.44	ppb
Arsenic	75-2	0.01	0.03	0.07	0.04	82.15	ppb
Barium	135-1	0.22	0.18	0.16	0.18	16.23	ppb
Barium	137-1	0.22	0.15	0.19	0.19	18.81	ppb
Beryllium	9-1	0.09	0.09	0.09	0.09	5.51	ppb
Bismuth	209-1				94		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.04	0.09	0.08	49.99	ppb
Cadmium	106-1	-1.40	-0.86	-0.26	-0.84		ppb
Cadmium	111-1	0.01	0.01	0.02	0.01	53.68	ppb
Calcium	43-1	6.70	5.39	3.82	5.31	27.21	ppb
Calcium	44-1	5.02	3.39	3.02	3.81	27.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.07	0.03	0.05	40.19	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	19.43	ppb
Copper	63-2	0.10	0.09	0.04	0.07	45.31	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				95		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	54-2	-1.66	-1.09	-1.41	-1.39		ppb
Iron	56-2	-5.16	-5.00	-5.34	-5.17		ppb
Iron	57-2	-1.47	-1.61	-1.30	-1.46		ppb
Krypton	83-1						cps
Lead	206-1	0.22	0.18	0.17	0.19	13.77	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.21	0.18	0.16	0.18	13.28	ppb
Lead	208-1	0.20	0.18	0.16	0.18	11.41	ppb
Lithium	6-1				98		%
Magnesium	24-2	6.44	6.51	5.74	6.23	6.84	ppb
Manganese	55-2	0.21	0.20	0.23	0.21	9.52	ppb
Molybdenum	94-1	0.26	0.20	0.19	0.22	18.37	ppb
Molybdenum	95-1	0.25	0.18	0.19	0.21	16.88	ppb
Molybdenum	96-1	0.25	0.22	0.18	0.22	16.92	ppb
Molybdenum	97-1	0.24	0.19	0.20	0.21	13.68	ppb
Molybdenum	98-1	0.25	0.19	0.17	0.20	19.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.08	0.05	0.05	74.92	ppb
Phosphorus	31-2	-37.23	-32.26	-27.23	-32.24		ppb
Potassium	39-2	17.90	20.18	13.14	17.07	21.04	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	-0.10	-0.14	0.19	-0.02		ppb
Selenium	77-2	-0.29	0.59	-0.29	0.01	9056.65	ppb
Selenium	78-2	0.02	-0.50	0.00	-0.16		ppb
Silicon	28-1	-0.63	-0.93	-0.23	-0.59		ppb
Silver	107-1	0.05	0.05	0.04	0.05	9.13	ppb
Silver	109-1	0.06	0.05	0.04	0.05	18.32	ppb
Sodium	23-2	30.80	29.20	25.93	28.64	8.68	ppb
Strontium	86-1	0.02	0.01	0.02	0.02	42.30	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	19.35	ppb
Sulfur	34-1	-604.30	-741.92	-286.61	-544.28		ppb
Terbium	159-1				96		%
Terbium	159-2				100		%
Thallium	203-1	0.05	0.04	0.03	0.04	23.85	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	12.07	ppb
Tin	118-1	0.01	0.00	0.01	0.01	97.33	ppb
Titanium	47-1	0.18	0.11	0.11	0.13	31.66	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	22.23	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	17.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	0.13	0.20	0.10	0.14	37.11	ppb
Zirconium	90-1	0.03	0.03	0.02	0.03	17.80	ppb
Zirconium	91-1	0.03	0.02	0.03	0.03	21.52	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9300.25	9296.53	9194.45	9263.74	0.65	ppb
Antimony	121-1	503.89	515.13	513.54	510.85	1.19	ppb
Arsenic	75-2	501.80	499.66	497.36	499.60	0.44	ppb
Barium	135-1	2527.22	2535.14	2527.94	2530.10	0.17	ppb
Barium	137-1	2495.61	2508.61	2524.90	2509.71	0.58	ppb
Beryllium	9-1	489.06	490.96	510.69	496.90	2.41	ppb
Bismuth	209-1				90		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	497.85	513.59	511.67	507.70	1.69	ppb
Cadmium	106-1	505.62	513.13	509.21	509.32	0.74	ppb
Cadmium	111-1	512.65	517.53	527.85	519.34	1.49	ppb
Calcium	43-1	50209.08	51516.31	49986.13	50570.50	1.63	ppb
Calcium	44-1	49898.37	50662.49	49270.32	49943.73	1.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	526.42	508.65	509.64	514.91	1.94	ppb
Cobalt	59-2	521.43	517.25	508.35	515.68	1.29	ppb
Copper	63-2	5143.67	5071.34	5115.12	5110.04	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				96		%
Holmium	165-2				96		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	26887.09	26728.68	26345.92	26653.90	1.04	ppb
Iron	56-2	26243.99	25810.23	25904.35	25986.19	0.88	ppb
Iron	57-2	26285.43	26026.85	26249.19	26187.15	0.53	ppb
Krypton	83-1						cps
Lead	206-1	2463.69	2515.80	2476.73	2485.41	1.09	ppb

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2471.00	2488.97	2449.64	2469.87	0.80	ppb
Lead	208-1	2471.39	2486.73	2462.00	2473.37	0.50	ppb
Lithium	6-1				92		%
Magnesium	24-2	54357.07	53257.15	53880.17	53831.46	1.02	ppb
Manganese	55-2	5171.21	5105.48	5075.80	5117.50	0.95	ppb
Molybdenum	94-1	4942.70	5028.37	4968.60	4979.89	0.88	ppb
Molybdenum	95-1	4946.77	5047.85	5012.64	5002.42	1.03	ppb
Molybdenum	96-1	4904.60	5021.34	4955.75	4960.57	1.18	ppb
Molybdenum	97-1	4782.98	5007.99	4899.21	4896.73	2.30	ppb
Molybdenum	98-1	4860.79	4985.50	4897.52	4914.60	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	479.38	475.42	478.01	477.60	0.42	ppb
Phosphorus	31-2	10197.39	10059.96	10044.67	10100.68	0.83	ppb
Potassium	39-2	25080.83	24497.47	24469.91	24682.74	1.40	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	489.68	500.25	490.41	493.45	1.20	ppb
Selenium	77-2	498.44	487.68	526.86	504.33	4.01	ppb
Selenium	78-2	519.64	502.22	501.99	507.95	1.99	ppb
Silicon	28-1	513.89	512.10	497.89	507.96	1.73	ppb
Silver	107-1	515.15	517.12	515.56	515.94	0.20	ppb
Silver	109-1	517.99	523.49	519.31	520.26	0.55	ppb
Sodium	23-2	50626.12	50052.98	49732.71	50137.27	0.90	ppb
Strontium	86-1	494.10	507.52	501.12	500.91	1.34	ppb
Strontium	88-1	495.44	501.06	496.84	497.78	0.59	ppb
Sulfur	34-1	9795.86	9821.92	9358.80	9658.86	2.69	ppb
Terbium	159-1				97		%
Terbium	159-2				97		%
Thallium	203-1	497.56	501.90	498.36	499.28	0.46	ppb
Thallium	205-1	491.02	500.60	495.78	495.80	0.97	ppb
Tin	118-1	505.38	513.84	504.04	507.75	1.05	ppb
Titanium	47-1	4980.44	5074.02	4986.06	5013.51	1.05	ppb
Uranium	238-1	490.91	495.05	488.30	491.42	0.69	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	484.36	479.84	481.75	481.98	0.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	5177.16	5127.05	5098.98	5134.40	0.77	ppb
Zirconium	90-1	495.57	494.54	494.63	494.92	0.12	ppb
Zirconium	91-1	500.79	504.54	504.10	503.14	0.41	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49410.57	47862.36	48192.59	48488.50	1.68	ppb
Antimony	121-1	493.04	496.62	500.44	496.70	0.75	ppb
Arsenic	75-2	489.75	479.33	491.18	486.75	1.33	ppb
Barium	135-1	2496.61	2509.44	2519.94	2508.66	0.47	ppb
Barium	137-1	2474.40	2491.95	2501.49	2489.28	0.55	ppb
Beryllium	9-1	499.85	503.16	502.12	501.71	0.34	ppb
Bismuth	209-1				80		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	478.63	482.24	485.09	481.99	0.67	ppb
Cadmium	106-1	475.26	481.45	487.03	481.25	1.22	ppb
Cadmium	111-1	479.45	472.77	491.98	481.40	2.03	ppb
Calcium	43-1	244784.69	249526.13	251446.81	248585.88	1.38	ppb
Calcium	44-1	249047.55	249611.84	248648.82	249102.73	0.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.37	498.24	490.19	494.93	0.85	ppb
Cobalt	59-2	487.61	490.85	486.99	488.48	0.42	ppb
Copper	63-2	4735.10	4649.57	4632.13	4672.27	1.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				90		%
Holmium	165-2				92		%
Indium	115-1				85		%
Indium	115-2				87		%
Iron	54-2	127341.90	126703.70	125879.13	126641.57	0.58	ppb
Iron	56-2	126153.59	124824.05	125135.05	125370.90	0.55	ppb
Iron	57-2	125626.21	125035.67	124840.43	125167.44	0.33	ppb
Krypton	83-1						cps
Lead	206-1	2520.98	2567.54	2520.74	2536.42	1.06	ppb

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2514.99	2581.42	2502.67	2533.02	1.67	ppb
Lead	208-1	2518.54	2566.10	2506.35	2530.33	1.25	ppb
Lithium	6-1				83		%
Magnesium	24-2	268851.42	262763.92	262687.51	264767.62	1.34	ppb
Manganese	55-2	4982.06	4956.78	4927.13	4955.32	0.55	ppb
Molybdenum	94-1	5013.77	4987.76	5008.45	5003.33	0.27	ppb
Molybdenum	95-1	5043.61	5058.41	5019.60	5040.54	0.39	ppb
Molybdenum	96-1	4998.84	5062.44	4993.79	5018.36	0.76	ppb
Molybdenum	97-1	5008.27	4998.02	4951.75	4986.01	0.60	ppb
Molybdenum	98-1	4990.59	4979.73	4997.50	4989.27	0.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	485.95	482.06	486.08	484.70	0.47	ppb
Phosphorus	31-2	9873.20	9902.93	9921.78	9899.30	0.25	ppb
Potassium	39-2	122341.86	120855.52	121570.39	121589.26	0.61	ppb
Rhodium	103-1				82		%
Rhodium	103-2				82		%
Scandium	45-1				90		%
Scandium	45-2				92		%
Selenium	82-1	478.00	477.69	472.45	476.05	0.65	ppb
Selenium	77-2	472.44	448.76	494.08	471.76	4.81	ppb
Selenium	78-2	480.02	498.66	507.91	495.53	2.87	ppb
Silicon	28-1	526.13	517.40	525.30	522.94	0.92	ppb
Silver	107-1	472.77	479.27	478.10	476.71	0.73	ppb
Silver	109-1	476.37	481.32	482.91	480.20	0.71	ppb
Sodium	23-2	249925.85	243429.94	243600.37	245652.05	1.51	ppb
Strontium	86-1	506.64	500.95	501.67	503.08	0.62	ppb
Strontium	88-1	502.92	504.49	498.29	501.90	0.64	ppb
Sulfur	34-1	9996.35	9787.22	9559.51	9781.03	2.23	ppb
Terbium	159-1				91		%
Terbium	159-2				92		%
Thallium	203-1	504.03	519.44	510.72	511.40	1.51	ppb
Thallium	205-1	511.59	501.79	507.98	507.12	0.98	ppb
Tin	118-1	494.60	493.48	499.33	495.80	0.63	ppb
Titanium	47-1	5042.24	4912.17	5059.56	5004.66	1.61	ppb
Uranium	238-1	518.61	530.04	515.80	521.48	1.45	ppb

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	476.72	475.71	472.86	475.10	0.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				92		%
Zinc	66-2	4819.44	4734.62	4749.65	4767.90	0.95	ppb
Zirconium	90-1	501.43	499.13	497.45	499.34	0.40	ppb
Zirconium	91-1	512.93	512.46	503.24	509.54	1.07	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.10	0.55	0.93	0.86	32.90	ppb
Antimony	121-1	0.13	0.12	0.10	0.12	11.37	ppb
Arsenic	75-2	0.02	0.02	0.01	0.02	42.70	ppb
Barium	135-1	0.31	0.26	0.27	0.28	8.94	ppb
Barium	137-1	0.27	0.28	0.27	0.27	3.58	ppb
Beryllium	9-1	0.15	0.13	0.13	0.14	9.72	ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.06	0.12	0.07	53.17	ppb
Cadmium	106-1	-0.68	-1.49	-0.54	-0.91		ppb
Cadmium	111-1	0.01	0.00	0.01	0.01	118.85	ppb
Calcium	43-1	3.13	5.50	2.70	3.78	39.98	ppb
Calcium	44-1	3.35	4.50	1.50	3.12	48.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.02	0.05	0.03	40.46	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	8.29	ppb
Copper	63-2	0.03	0.05	0.03	0.04	36.13	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				96		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	54-2	-1.97	-2.21	-2.69	-2.29		ppb
Iron	56-2	-6.15	-6.05	-5.99	-6.06		ppb
Iron	57-2	-2.75	-3.34	-2.62	-2.90		ppb
Krypton	83-1						cps
Lead	206-1	0.25	0.26	0.22	0.24	9.15	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.25	0.26	0.22	0.24	7.80	ppb
Lead	208-1	0.25	0.26	0.21	0.24	10.69	ppb
Lithium	6-1				96		%
Magnesium	24-2	3.85	3.90	4.23	3.99	5.15	ppb
Manganese	55-2	0.18	0.19	0.20	0.19	3.58	ppb
Molybdenum	94-1	0.26	0.30	0.21	0.26	17.22	ppb
Molybdenum	95-1	0.25	0.25	0.19	0.23	14.20	ppb
Molybdenum	96-1	0.24	0.28	0.19	0.24	18.75	ppb
Molybdenum	97-1	0.27	0.23	0.20	0.23	13.31	ppb
Molybdenum	98-1	0.23	0.26	0.18	0.22	16.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.12	0.06	0.06	85.37	ppb
Phosphorus	31-2	-33.55	-18.99	-27.07	-26.54		ppb
Potassium	39-2	21.10	17.07	19.47	19.21	10.53	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	-0.09	0.00	-0.13	-0.07		ppb
Selenium	77-2	0.59	-0.29	-0.29	0.00	10291.36	ppb
Selenium	78-2	0.27	0.26	0.01	0.18	80.18	ppb
Silicon	28-1	-0.11	-0.15	-0.28	-0.18		ppb
Silver	107-1	0.06	0.06	0.04	0.05	20.48	ppb
Silver	109-1	0.06	0.06	0.05	0.06	16.49	ppb
Sodium	23-2	36.05	33.16	35.26	34.82	4.29	ppb
Strontium	86-1	0.02	0.02	0.02	0.02	15.93	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	2.44	ppb
Sulfur	34-1	-496.75	-496.39	-490.65	-494.60		ppb
Terbium	159-1				94		%
Terbium	159-2				98		%
Thallium	203-1	0.06	0.06	0.05	0.06	6.25	ppb
Thallium	205-1	0.06	0.05	0.05	0.05	6.50	ppb
Tin	118-1	0.02	0.02	0.01	0.02	35.78	ppb
Titanium	47-1	0.13	0.20	0.10	0.14	36.41	ppb
Uranium	238-1	0.02	0.02	0.01	0.01	25.26	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.01	0.01	43.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	0.06	0.20	0.28	0.18	61.33	ppb
Zirconium	90-1	0.03	0.04	0.03	0.03	12.74	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	11.66	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	127.21	130.78	130.38	129.46	1.51	ppb
Antimony	121-1	0.30	0.30	0.30	0.30	1.42	ppb
Arsenic	75-2	0.52	0.64	0.54	0.57	10.88	ppb
Barium	135-1	7.68	7.57	7.76	7.67	1.26	ppb
Barium	137-1	7.60	7.59	7.85	7.68	1.92	ppb
Beryllium	9-1	0.12	0.09	0.10	0.10	11.15	ppb
Bismuth	209-1				85		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.56	0.66	0.70	0.64	11.15	ppb
Cadmium	106-1	-0.92	-1.12	-1.33	-1.12		ppb
Cadmium	111-1	0.37	0.37	0.33	0.36	5.45	ppb
Calcium	43-1	1342.18	1390.26	1425.57	1386.00	3.02	ppb
Calcium	44-1	1447.36	1462.28	1446.12	1451.92	0.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.12	1.17	1.17	1.16	2.42	ppb
Cobalt	59-2	0.37	0.37	0.38	0.38	1.77	ppb
Copper	63-2	15.43	15.73	16.11	15.76	2.14	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				87		%
Holmium	165-2				90		%
Indium	115-1				89		%
Indium	115-2				90		%
Iron	54-2	495.00	520.32	507.97	507.76	2.49	ppb
Iron	56-2	492.42	503.99	509.50	501.97	1.74	ppb
Iron	57-2	504.00	505.12	508.59	505.90	0.47	ppb
Krypton	83-1						cps
Lead	206-1	8.56	8.32	8.61	8.50	1.82	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	8.23	7.98	8.47	8.23	3.01	ppb
Lead	208-1	8.38	8.23	8.47	8.36	1.48	ppb
Lithium	6-1				89		%
Magnesium	24-2	297.17	308.15	310.53	305.28	2.33	ppb
Manganese	55-2	11.08	11.26	11.73	11.36	2.96	ppb
Molybdenum	94-1	4.70	4.68	4.71	4.70	0.29	ppb
Molybdenum	95-1	3.12	3.28	3.19	3.20	2.42	ppb
Molybdenum	96-1	3.37	3.31	3.30	3.33	1.09	ppb
Molybdenum	97-1	3.07	3.21	3.26	3.18	3.19	ppb
Molybdenum	98-1	3.09	3.14	3.18	3.14	1.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.96	1.01	0.97	0.98	2.73	ppb
Phosphorus	31-2	42.85	50.52	44.88	46.08	8.62	ppb
Potassium	39-2	517.92	533.07	527.11	526.04	1.45	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				90		%
Scandium	45-2				90		%
Selenium	82-1	-0.19	-0.17	-0.16	-0.17		ppb
Selenium	77-2	-0.29	-0.29	0.67	0.03	1732.84	ppb
Selenium	78-2	0.04	-0.50	-0.50	-0.32		ppb
Silicon	28-1	502.27	513.46	531.69	515.81	2.88	ppb
Silver	107-1	0.06	0.07	0.08	0.07	8.61	ppb
Silver	109-1	0.07	0.07	0.08	0.07	8.87	ppb
Sodium	23-2	51403.42	52170.64	52634.90	52069.66	1.19	ppb
Strontium	86-1	6.88	6.98	7.12	6.99	1.72	ppb
Strontium	88-1	6.97	7.00	7.13	7.03	1.18	ppb
Sulfur	34-1	657.62	872.90	1146.72	892.42	27.47	ppb
Terbium	159-1				89		%
Terbium	159-2				92		%
Thallium	203-1	0.04	0.04	0.04	0.04	4.43	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	5.76	ppb
Tin	118-1	0.50	0.47	0.50	0.49	3.92	ppb
Titanium	47-1	7.29	7.52	7.60	7.47	2.15	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	3.22	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.13	1.09	1.12	1.11	1.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				91		%
Zinc	66-2	104.76	104.80	106.79	105.45	1.10	ppb
Zirconium	90-1	1.17	1.16	1.15	1.16	0.73	ppb
Zirconium	91-1	1.19	1.17	1.22	1.19	2.13	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	467.86	487.20	483.27	479.44	2.13	ppb
Antimony	121-1	1.93	1.98	2.08	2.00	3.67	ppb
Arsenic	75-2	1.54	1.37	1.50	1.47	6.03	ppb
Barium	135-1	66.61	68.43	68.86	67.97	1.76	ppb
Barium	137-1	66.72	69.19	70.03	68.65	2.50	ppb
Beryllium	9-1	0.08	0.08	0.08	0.08	2.44	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	3.60	3.85	3.69	3.72	3.34	ppb
Cadmium	106-1	2.02	1.49	1.85	1.78	15.11	ppb
Cadmium	111-1	2.63	2.76	2.83	2.74	3.74	ppb
Calcium	43-1	9622.19	9904.30	10202.35	9909.62	2.93	ppb
Calcium	44-1	10103.37	10314.01	10540.21	10319.19	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.70	6.75	7.02	6.83	2.50	ppb
Cobalt	59-2	6.95	7.11	7.29	7.12	2.39	ppb
Copper	63-2	73.40	75.89	75.45	74.91	1.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				99		%
Indium	115-1				96		%
Indium	115-2				99		%
Iron	54-2	2979.60	3060.13	3058.91	3032.88	1.52	ppb
Iron	56-2	3064.49	3179.87	3240.74	3161.70	2.83	ppb
Iron	57-2	2916.95	3037.17	3067.58	3007.23	2.65	ppb
Krypton	83-1						cps
Lead	206-1	22.25	22.72	22.89	22.62	1.47	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.66	22.15	22.33	22.05	1.58	ppb
Lead	208-1	21.71	22.34	22.47	22.17	1.84	ppb
Lithium	6-1				97		%
Magnesium	24-2	2817.41	2921.83	2941.04	2893.43	2.30	ppb
Manganese	55-2	63.49	64.94	65.10	64.51	1.37	ppb
Molybdenum	94-1	67.25	70.27	70.20	69.24	2.49	ppb
Molybdenum	95-1	76.10	78.12	79.10	77.77	1.97	ppb
Molybdenum	96-1	74.55	77.01	77.22	76.26	1.95	ppb
Molybdenum	97-1	76.00	79.26	79.01	78.09	2.33	ppb
Molybdenum	98-1	75.16	78.40	78.59	77.38	2.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.28	9.76	9.41	9.48	2.62	ppb
Phosphorus	31-2	1550.45	1537.60	1717.42	1601.82	6.26	ppb
Potassium	39-2	2727.00	2821.43	2838.44	2795.62	2.15	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				99		%
Selenium	82-1	0.33	-0.29	-0.02	0.01	4518.82	ppb
Selenium	77-2	0.56	4.14	-0.29	1.47	159.66	ppb
Selenium	78-2	-0.01	0.53	0.26	0.26	102.86	ppb
Silicon	28-1	1604.67	1601.14	1656.38	1620.73	1.91	ppb
Silver	107-1	0.13	0.14	0.14	0.14	3.59	ppb
Silver	109-1	0.13	0.14	0.15	0.14	6.61	ppb
Sodium	23-2	48738.79	50378.99	50599.00	49905.59	2.04	ppb
Strontium	86-1	26.04	26.92	27.07	26.68	2.10	ppb
Strontium	88-1	26.04	27.04	27.05	26.71	2.16	ppb
Sulfur	34-1	8401.30	8289.68	8968.21	8553.06	4.25	ppb
Terbium	159-1				97		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.03	0.04	0.03	18.35	ppb
Thallium	205-1	0.03	0.04	0.03	0.03	10.15	ppb
Tin	118-1	2.85	2.99	2.94	2.93	2.48	ppb
Titanium	47-1	20.32	21.50	21.33	21.05	3.03	ppb
Uranium	238-1	0.09	0.09	0.10	0.09	3.00	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.35	2.25	2.47	2.35	4.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	2189.26	2261.81	2264.61	2238.56	1.91	ppb
Zirconium	90-1	2.77	2.92	2.90	2.86	2.86	ppb
Zirconium	91-1	2.76	2.93	2.97	2.89	3.90	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	497.81	488.54	490.56	492.31	0.99	ppb
Antimony	121-1	2.05	2.07	2.08	2.07	0.86	ppb
Arsenic	75-2	1.52	1.57	1.38	1.49	6.40	ppb
Barium	135-1	68.23	71.82	70.45	70.17	2.58	ppb
Barium	137-1	69.61	72.15	71.29	71.02	1.82	ppb
Beryllium	9-1	0.07	0.09	0.07	0.08	12.05	ppb
Bismuth	209-1				92		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	3.90	3.93	4.13	3.98	3.12	ppb
Cadmium	106-1	1.03	2.47	2.30	1.93	40.72	ppb
Cadmium	111-1	2.75	2.84	2.93	2.84	3.21	ppb
Calcium	43-1	10153.58	10482.95	10087.12	10241.22	2.07	ppb
Calcium	44-1	10818.85	10852.62	10629.00	10766.82	1.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.20	7.19	7.29	7.23	0.77	ppb
Cobalt	59-2	7.55	7.35	7.36	7.42	1.54	ppb
Copper	63-2	77.71	77.37	78.58	77.89	0.80	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	54-2	3169.51	3143.35	3148.09	3153.65	0.44	ppb
Iron	56-2	3318.37	3227.25	3237.45	3261.02	1.53	ppb
Iron	57-2	3110.36	3087.21	3119.31	3105.63	0.53	ppb
Krypton	83-1						cps
Lead	206-1	23.05	24.03	23.21	23.43	2.24	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.50	23.11	22.88	22.83	1.35	ppb
Lead	208-1	22.65	23.48	22.90	23.01	1.85	ppb
Lithium	6-1				96		%
Magnesium	24-2	3038.98	2979.24	3010.24	3009.49	0.99	ppb
Manganese	55-2	66.51	66.87	66.06	66.48	0.61	ppb
Molybdenum	94-1	69.79	72.50	69.80	70.70	2.21	ppb
Molybdenum	95-1	78.38	81.85	77.82	79.35	2.75	ppb
Molybdenum	96-1	76.98	80.00	76.13	77.71	2.61	ppb
Molybdenum	97-1	79.05	80.95	78.57	79.52	1.58	ppb
Molybdenum	98-1	77.50	80.23	77.76	78.50	1.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.02	9.98	9.89	9.96	0.69	ppb
Phosphorus	31-2	1663.15	1625.14	1662.38	1650.22	1.32	ppb
Potassium	39-2	2941.32	2881.92	2913.78	2912.34	1.02	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.13	0.24	0.29	0.22	37.34	ppb
Selenium	77-2	-0.29	-0.29	0.57	0.00		ppb
Selenium	78-2	0.53	0.01	-0.25	0.09	423.14	ppb
Silicon	28-1	1645.47	1700.75	1612.45	1652.89	2.70	ppb
Silver	107-1	0.13	0.14	0.14	0.14	3.65	ppb
Silver	109-1	0.13	0.14	0.15	0.14	8.19	ppb
Sodium	23-2	52512.19	51718.92	51786.13	52005.74	0.85	ppb
Strontium	86-1	27.12	27.91	26.64	27.22	2.35	ppb
Strontium	88-1	26.98	27.95	27.21	27.38	1.84	ppb
Sulfur	34-1	8810.90	9357.67	8356.11	8841.56	5.67	ppb
Terbium	159-1				97		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.04	0.03	0.03	22.99	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	3.77	ppb
Tin	118-1	2.93	3.06	3.06	3.02	2.63	ppb
Titanium	47-1	20.99	22.14	21.33	21.48	2.76	ppb
Uranium	238-1	0.09	0.10	0.10	0.10	2.83	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.56	2.54	2.56	2.55	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				99		%
Zinc	66-2	2320.96	2321.16	2341.10	2327.74	0.50	ppb
Zirconium	90-1	2.84	3.00	2.88	2.91	2.87	ppb
Zirconium	91-1	2.89	2.97	2.85	2.90	2.21	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	97.69	95.55	99.95	97.73	2.25	ppb
Antimony	121-1	0.43	0.42	0.42	0.42	0.52	ppb
Arsenic	75-2	0.31	0.31	0.39	0.34	14.53	ppb
Barium	135-1	14.30	13.78	14.07	14.05	1.88	ppb
Barium	137-1	14.48	14.02	14.32	14.27	1.65	ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	7.22	ppb
Bismuth	209-1				95		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.90	0.62	0.87	0.80	19.70	ppb
Cadmium	106-1	-0.87	-0.64	-0.55	-0.69		ppb
Cadmium	111-1	0.51	0.54	0.55	0.53	4.01	ppb
Calcium	43-1	2098.68	2011.92	2038.89	2049.83	2.17	ppb
Calcium	44-1	2242.74	2159.52	2164.00	2188.76	2.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.47	1.45	1.46	1.46	0.64	ppb
Cobalt	59-2	1.52	1.50	1.48	1.50	1.39	ppb
Copper	63-2	19.90	19.75	19.91	19.85	0.45	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				97		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				101		%
Iron	54-2	631.70	638.05	619.72	629.82	1.48	ppb
Iron	56-2	659.14	653.80	662.25	658.40	0.65	ppb
Iron	57-2	635.29	619.49	632.60	629.13	1.34	ppb
Krypton	83-1						cps
Lead	206-1	4.75	4.58	4.63	4.65	1.89	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.66	4.39	4.52	4.52	2.91	ppb
Lead	208-1	4.64	4.46	4.54	4.55	1.98	ppb
Lithium	6-1				97		%
Magnesium	24-2	595.47	596.65	597.64	596.59	0.18	ppb
Manganese	55-2	13.50	13.34	13.29	13.38	0.85	ppb
Molybdenum	94-1	14.70	14.01	14.10	14.27	2.65	ppb
Molybdenum	95-1	16.50	15.60	15.91	16.00	2.87	ppb
Molybdenum	96-1	16.16	15.17	15.55	15.63	3.19	ppb
Molybdenum	97-1	16.39	15.69	15.68	15.92	2.58	ppb
Molybdenum	98-1	16.55	15.56	15.70	15.93	3.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.56	2.41	2.45	2.47	3.22	ppb
Phosphorus	31-2	299.95	301.67	303.62	301.74	0.61	ppb
Potassium	39-2	582.52	586.57	576.74	581.94	0.85	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	-0.20	-0.20	-0.12	-0.18		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.50	0.25	1.55	0.43	240.66	ppb
Silicon	28-1	342.28	326.39	331.55	333.41	2.43	ppb
Silver	107-1	0.03	0.03	0.03	0.03	5.75	ppb
Silver	109-1	0.03	0.03	0.03	0.03	5.63	ppb
Sodium	23-2	10386.24	10320.27	10294.02	10333.51	0.46	ppb
Strontium	86-1	5.62	5.36	5.45	5.48	2.50	ppb
Strontium	88-1	5.74	5.38	5.44	5.52	3.43	ppb
Sulfur	34-1	1453.94	1173.36	1277.03	1301.44	10.90	ppb
Terbium	159-1				99		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.02	0.02	5.20	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.31	ppb
Tin	118-1	0.61	0.57	0.60	0.59	3.17	ppb
Titanium	47-1	4.30	4.27	4.35	4.31	0.95	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	5.61	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.49	0.50	0.47	0.49	3.64	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	466.95	466.95	466.84	466.91	0.01	ppb
Zirconium	90-1	0.57	0.57	0.58	0.57	0.53	ppb
Zirconium	91-1	0.58	0.53	0.57	0.56	5.17	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2861.44	2833.24	2823.39	2839.36	0.70	ppb
Antimony	121-1	386.70	407.43	407.26	400.46	2.98	ppb
Arsenic	75-2	414.16	422.75	415.33	417.41	1.12	ppb
Barium	135-1	728.49	754.85	757.43	746.92	2.14	ppb
Barium	137-1	712.46	742.25	755.50	736.74	2.99	ppb
Beryllium	9-1	365.20	380.29	379.39	374.96	2.26	ppb
Bismuth	209-1				92		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	366.40	388.55	383.09	379.35	3.04	ppb
Cadmium	106-1	388.50	409.67	409.07	402.41	3.00	ppb
Cadmium	111-1	367.63	384.03	389.01	380.22	2.94	ppb
Calcium	43-1	19306.19	19898.24	20329.98	19844.80	2.59	ppb
Calcium	44-1	20230.54	20620.04	21162.18	20670.92	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	360.33	365.75	365.94	364.00	0.87	ppb
Cobalt	59-2	412.19	412.33	419.79	414.77	1.05	ppb
Copper	63-2	1257.91	1246.66	1246.22	1250.26	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				97		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	54-2	9845.25	9956.90	10000.72	9934.29	0.81	ppb
Iron	56-2	9976.54	10197.11	10136.33	10103.33	1.13	ppb
Iron	57-2	9509.62	9721.92	9629.71	9620.42	1.11	ppb
Krypton	83-1						cps
Lead	206-1	505.27	518.80	521.90	515.32	1.72	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	511.84	516.48	512.60	513.64	0.48	ppb
Lead	208-1	506.53	514.08	513.65	511.42	0.83	ppb
Lithium	6-1				96		%
Magnesium	24-2	14140.29	13921.90	13997.38	14019.86	0.79	ppb
Manganese	55-2	1031.90	1068.60	1063.06	1054.52	1.88	ppb
Molybdenum	94-1	1371.09	1431.65	1440.15	1414.30	2.66	ppb
Molybdenum	95-1	836.93	863.17	863.38	854.49	1.78	ppb
Molybdenum	96-1	884.56	916.38	921.98	907.64	2.22	ppb
Molybdenum	97-1	828.78	868.88	863.64	853.77	2.55	ppb
Molybdenum	98-1	830.35	862.55	861.25	851.38	2.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	377.97	380.52	378.79	379.10	0.34	ppb
Phosphorus	31-2	1567.06	1426.20	1567.61	1520.29	5.36	ppb
Potassium	39-2	8992.60	9064.13	9651.12	9235.95	3.91	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	374.65	389.60	395.20	386.48	2.75	ppb
Selenium	77-2	429.80	412.16	377.96	406.64	6.48	ppb
Selenium	78-2	418.08	414.05	407.79	413.30	1.25	ppb
Silicon	28-1	1569.58	1602.57	1656.78	1609.64	2.74	ppb
Silver	107-1	0.68	0.70	0.72	0.70	2.84	ppb
Silver	109-1	0.23	0.24	0.24	0.24	2.04	ppb
Sodium	23-2	58628.67	59050.90	58471.49	58717.02	0.51	ppb
Strontium	86-1	389.33	394.04	396.68	393.35	0.95	ppb
Strontium	88-1	380.07	384.62	388.46	384.38	1.09	ppb
Sulfur	34-1	7766.15	8138.94	8310.73	8071.94	3.45	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	369.45	384.79	381.53	378.59	2.14	ppb
Thallium	205-1	362.33	373.10	374.25	369.89	1.78	ppb
Tin	118-1	133.06	134.09	138.16	135.10	2.00	ppb
Titanium	47-1	527.46	543.94	551.62	541.01	2.28	ppb
Uranium	238-1	372.64	373.82	372.97	373.15	0.16	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	375.34	378.48	381.79	378.54	0.85	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	3138.43	3137.96	3137.46	3137.95	0.02	ppb
Zirconium	90-1	387.41	394.53	400.57	394.17	1.67	ppb
Zirconium	91-1	393.00	404.12	408.24	401.79	1.96	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2832.19	2854.75	2838.52	2841.82	0.41	ppb
Antimony	121-1	403.80	418.51	419.67	413.99	2.14	ppb
Arsenic	75-2	416.16	415.22	413.59	414.99	0.31	ppb
Barium	135-1	744.91	776.51	761.50	760.97	2.08	ppb
Barium	137-1	737.06	763.14	755.60	751.93	1.79	ppb
Beryllium	9-1	394.75	376.52	385.68	385.65	2.36	ppb
Bismuth	209-1				92		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	376.49	393.87	389.22	386.53	2.33	ppb
Cadmium	106-1	400.41	419.47	422.28	414.05	2.87	ppb
Cadmium	111-1	377.10	389.15	392.30	386.19	2.08	ppb
Calcium	43-1	19615.20	20086.53	20226.37	19976.04	1.60	ppb
Calcium	44-1	20454.27	20974.38	21216.82	20881.82	1.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	363.06	360.37	363.47	362.30	0.47	ppb
Cobalt	59-2	414.77	410.34	405.90	410.33	1.08	ppb
Copper	63-2	1250.84	1251.71	1255.42	1252.66	0.19	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	54-2	9910.38	9891.13	9970.97	9924.16	0.42	ppb
Iron	56-2	9955.73	9968.72	10061.31	9995.25	0.58	ppb
Iron	57-2	9491.39	9530.98	9592.72	9538.37	0.54	ppb
Krypton	83-1						cps
Lead	206-1	519.58	538.68	531.59	529.95	1.82	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	521.72	528.15	532.19	527.35	1.00	ppb
Lead	208-1	518.03	531.09	526.81	525.31	1.27	ppb
Lithium	6-1				95		%
Magnesium	24-2	14111.36	13862.48	14006.74	13993.53	0.89	ppb
Manganese	55-2	1037.61	1044.69	1058.15	1046.82	1.00	ppb
Molybdenum	94-1	1442.83	1471.60	1468.07	1460.83	1.07	ppb
Molybdenum	95-1	875.37	891.45	894.26	887.03	1.15	ppb
Molybdenum	96-1	938.62	952.90	937.81	943.11	0.90	ppb
Molybdenum	97-1	882.81	896.21	889.53	889.52	0.75	ppb
Molybdenum	98-1	864.79	906.71	891.99	887.83	2.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	374.34	373.98	376.88	375.07	0.42	ppb
Phosphorus	31-2	1522.76	1557.32	1568.80	1549.63	1.55	ppb
Potassium	39-2	9100.14	9398.02	9530.91	9343.02	2.36	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	395.19	409.03	401.33	401.85	1.73	ppb
Selenium	77-2	381.75	389.17	455.19	408.70	9.89	ppb
Selenium	78-2	411.24	428.44	387.90	409.20	4.97	ppb
Silicon	28-1	1592.85	1634.67	1642.33	1623.28	1.64	ppb
Silver	107-1	0.69	0.71	0.74	0.71	3.68	ppb
Silver	109-1	0.23	0.24	0.25	0.24	2.95	ppb
Sodium	23-2	58869.15	57919.36	58887.43	58558.65	0.95	ppb
Strontium	86-1	399.27	405.34	399.21	401.27	0.88	ppb
Strontium	88-1	398.56	399.69	392.53	396.93	0.97	ppb
Sulfur	34-1	7791.89	8281.32	8273.49	8115.57	3.45	ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	381.97	392.50	386.48	386.98	1.37	ppb
Thallium	205-1	378.77	383.06	380.88	380.90	0.56	ppb
Tin	118-1	137.31	140.22	137.80	138.44	1.12	ppb
Titanium	47-1	537.08	554.80	556.82	549.57	1.98	ppb
Uranium	238-1	382.08	388.74	379.45	383.42	1.25	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	378.66	377.18	377.30	377.71	0.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	3122.12	3252.37	3280.93	3218.47	2.63	ppb
Zirconium	90-1	397.38	412.66	410.06	406.70	2.01	ppb
Zirconium	91-1	406.09	414.80	416.04	412.31	1.31	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2847.75	2860.67	2795.43	2834.62	1.22	ppb
Antimony	121-1	412.72	419.07	423.48	418.42	1.29	ppb
Arsenic	75-2	414.71	402.57	419.59	412.29	2.13	ppb
Barium	135-1	760.69	764.82	769.84	765.11	0.60	ppb
Barium	137-1	742.72	761.55	762.90	755.72	1.49	ppb
Beryllium	9-1	378.07	382.18	388.76	383.00	1.41	ppb
Bismuth	209-1				91		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	381.03	394.29	396.65	390.66	2.16	ppb
Cadmium	106-1	415.09	420.60	422.40	419.36	0.91	ppb
Cadmium	111-1	384.56	394.80	398.91	392.76	1.88	ppb
Calcium	43-1	20007.83	20404.96	20543.98	20318.93	1.37	ppb
Calcium	44-1	20903.61	21210.56	21371.39	21161.85	1.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	364.70	364.73	358.05	362.49	1.06	ppb
Cobalt	59-2	418.10	414.73	403.72	412.18	1.82	ppb
Copper	63-2	1258.61	1271.27	1234.63	1254.84	1.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				96		%
Holmium	165-2				98		%
Indium	115-1				96		%
Indium	115-2				98		%
Iron	54-2	9912.44	10063.25	9873.62	9949.77	1.01	ppb
Iron	56-2	10146.35	10179.75	9892.14	10072.75	1.56	ppb
Iron	57-2	9567.40	9718.44	9443.12	9576.32	1.44	ppb
Krypton	83-1						cps
Lead	206-1	534.81	530.25	536.66	533.91	0.62	ppb

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	530.03	526.21	542.55	532.93	1.60	ppb
Lead	208-1	525.34	525.46	537.75	529.52	1.35	ppb
Lithium	6-1				96		%
Magnesium	24-2	14285.88	14213.24	13833.08	14110.73	1.72	ppb
Manganese	55-2	1057.97	1059.79	1040.59	1052.79	1.01	ppb
Molybdenum	94-1	1413.60	1466.81	1476.68	1452.36	2.34	ppb
Molybdenum	95-1	861.40	867.80	884.22	871.14	1.35	ppb
Molybdenum	96-1	917.23	942.17	951.53	936.98	1.89	ppb
Molybdenum	97-1	851.08	879.04	887.38	872.50	2.18	ppb
Molybdenum	98-1	866.89	882.55	888.80	879.41	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	376.90	377.28	373.34	375.84	0.58	ppb
Phosphorus	31-2	1535.67	1620.03	1546.25	1567.32	2.93	ppb
Potassium	39-2	9022.40	9615.40	9449.85	9362.55	3.27	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	390.29	396.36	406.60	397.75	2.07	ppb
Selenium	77-2	409.99	374.31	421.87	402.06	6.16	ppb
Selenium	78-2	389.77	400.04	419.88	403.23	3.80	ppb
Silicon	28-1	1621.45	1662.52	1688.35	1657.44	2.04	ppb
Silver	107-1	0.74	0.74	0.74	0.74	0.06	ppb
Silver	109-1	0.25	0.24	0.24	0.24	2.47	ppb
Sodium	23-2	58692.00	58758.51	58024.65	58491.72	0.69	ppb
Strontium	86-1	393.98	409.50	410.23	404.57	2.27	ppb
Strontium	88-1	389.42	397.99	403.50	396.97	1.79	ppb
Sulfur	34-1	8224.11	8554.86	8476.46	8418.48	2.05	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	387.76	388.46	396.10	390.77	1.18	ppb
Thallium	205-1	385.26	383.83	388.92	386.01	0.68	ppb
Tin	118-1	136.74	140.11	140.58	139.14	1.51	ppb
Titanium	47-1	547.51	558.91	563.52	556.65	1.48	ppb
Uranium	238-1	380.15	383.53	397.09	386.92	2.32	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	377.16	379.23	373.10	376.50	0.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	3148.07	3140.12	3081.81	3123.33	1.16	ppb
Zirconium	90-1	400.86	409.00	411.46	407.10	1.36	ppb
Zirconium	91-1	408.44	417.05	412.99	412.83	1.04	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49481.75	49718.92	49648.64	49616.44	0.25	ppb
Antimony	121-1	487.84	496.36	500.31	494.84	1.29	ppb
Arsenic	75-2	489.92	487.43	491.52	489.62	0.42	ppb
Barium	135-1	2443.86	2498.69	2543.96	2495.50	2.01	ppb
Barium	137-1	2459.97	2488.01	2537.12	2495.03	1.57	ppb
Beryllium	9-1	498.00	504.94	500.75	501.23	0.70	ppb
Bismuth	209-1				82		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	477.68	481.06	495.33	484.69	1.93	ppb
Cadmium	106-1	481.23	487.62	492.63	487.16	1.17	ppb
Cadmium	111-1	476.85	469.30	492.20	479.45	2.43	ppb
Calcium	43-1	243546.36	255152.67	250147.58	249615.54	2.33	ppb
Calcium	44-1	244172.46	252515.23	250607.94	249098.54	1.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	507.94	504.01	508.72	506.89	0.50	ppb
Cobalt	59-2	493.45	494.77	502.76	496.99	1.01	ppb
Copper	63-2	4725.78	4708.65	4788.22	4740.88	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				93		%
Holmium	165-2				93		%
Indium	115-1				87		%
Indium	115-2				87		%
Iron	54-2	129020.90	128454.26	129115.22	128863.46	0.28	ppb
Iron	56-2	129276.88	128277.23	127451.72	128335.28	0.71	ppb
Iron	57-2	127827.12	128931.63	129023.85	128594.20	0.52	ppb
Krypton	83-1						cps
Lead	206-1	2499.82	2530.70	2565.79	2532.10	1.30	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2506.60	2505.98	2543.04	2518.54	0.84	ppb
Lead	208-1	2492.54	2521.35	2554.28	2522.72	1.22	ppb
Lithium	6-1				86		%
Magnesium	24-2	268694.79	269359.91	269375.62	269143.44	0.14	ppb
Manganese	55-2	5119.64	5107.26	5030.14	5085.68	0.95	ppb
Molybdenum	94-1	4938.38	5011.74	5109.42	5019.85	1.71	ppb
Molybdenum	95-1	4970.14	4961.50	5098.02	5009.89	1.53	ppb
Molybdenum	96-1	4942.09	4981.61	5050.35	4991.35	1.10	ppb
Molybdenum	97-1	4970.80	4971.16	5060.66	5000.87	1.04	ppb
Molybdenum	98-1	4972.11	4957.04	5081.84	5003.66	1.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.73	486.48	496.89	492.03	1.06	ppb
Phosphorus	31-2	9944.14	9902.55	10261.03	10035.91	1.95	ppb
Potassium	39-2	124190.64	123880.46	124546.91	124206.01	0.27	ppb
Rhodium	103-1				84		%
Rhodium	103-2				83		%
Scandium	45-1				92		%
Scandium	45-2				91		%
Selenium	82-1	468.01	473.16	478.57	473.24	1.12	ppb
Selenium	77-2	507.42	454.75	531.18	497.79	7.86	ppb
Selenium	78-2	483.69	466.73	482.63	477.68	1.99	ppb
Silicon	28-1	521.25	534.35	529.41	528.34	1.25	ppb
Silver	107-1	474.83	474.19	487.57	478.86	1.58	ppb
Silver	109-1	476.35	480.71	486.04	481.03	1.01	ppb
Sodium	23-2	248556.74	251111.06	251089.82	250252.54	0.59	ppb
Strontium	86-1	500.41	498.48	503.72	500.87	0.53	ppb
Strontium	88-1	494.10	493.48	497.87	495.15	0.48	ppb
Sulfur	34-1	9798.17	9756.22	9760.72	9771.70	0.24	ppb
Terbium	159-1				93		%
Terbium	159-2				93		%
Thallium	203-1	505.66	518.91	517.26	513.94	1.40	ppb
Thallium	205-1	499.37	510.09	508.21	505.89	1.13	ppb
Tin	118-1	490.31	490.45	506.14	495.63	1.84	ppb
Titanium	47-1	4910.58	5037.04	5064.20	5003.94	1.64	ppb
Uranium	238-1	516.14	516.37	522.81	518.44	0.73	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	484.06	482.56	484.46	483.69	0.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				93		%
Zinc	66-2	4845.04	4817.50	4824.33	4828.96	0.30	ppb
Zirconium	90-1	494.85	506.30	501.36	500.83	1.15	ppb
Zirconium	91-1	498.33	506.58	518.74	507.88	2.02	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.62	-0.21	0.20	0.20	202.22	ppb
Antimony	121-1	0.03	0.04	0.03	0.03	4.54	ppb
Arsenic	75-2	0.04	0.02	0.02	0.03	29.92	ppb
Barium	135-1	0.11	0.08	0.07	0.09	20.98	ppb
Barium	137-1	0.09	0.11	0.08	0.09	12.28	ppb
Beryllium	9-1	0.08	0.10	0.09	0.09	7.62	ppb
Bismuth	209-1				92		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.01	0.06	0.03	73.05	ppb
Cadmium	106-1	-1.59	-2.36	-2.12	-2.02		ppb
Cadmium	111-1	-0.02	-0.04	-0.04	-0.03		ppb
Calcium	43-1	2.34	1.49	3.33	2.39	38.55	ppb
Calcium	44-1	0.24	0.07	0.36	0.22	66.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.02	0.00	0.01	156.82	ppb
Cobalt	59-2	0.02	0.03	0.02	0.02	20.54	ppb
Copper	63-2	-0.11	-0.09	-0.12	-0.11		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				92		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	54-2	-3.71	-3.65	-3.66	-3.67		ppb
Iron	56-2	-7.55	-7.69	-7.59	-7.61		ppb
Iron	57-2	-4.38	-4.52	-4.18	-4.36		ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.09	0.12	0.11	12.89	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.11	0.09	0.11	16.40	ppb
Lead	208-1	0.11	0.10	0.11	0.11	5.69	ppb
Lithium	6-1				96		%
Magnesium	24-2	0.18	-0.07	-0.31	-0.07		ppb
Manganese	55-2	0.12	0.15	0.15	0.14	13.03	ppb
Molybdenum	94-1	0.05	0.02	0.04	0.03	34.49	ppb
Molybdenum	95-1	0.05	0.03	0.04	0.04	15.92	ppb
Molybdenum	96-1	0.06	0.03	0.05	0.05	34.05	ppb
Molybdenum	97-1	0.05	0.03	0.03	0.04	24.98	ppb
Molybdenum	98-1	0.05	0.04	0.03	0.04	22.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	-0.04	0.04	0.02	262.02	ppb
Phosphorus	31-2	-30.27	-29.93	-31.39	-30.53		ppb
Potassium	39-2	15.67	9.49	15.26	13.47	25.66	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				95		%
Scandium	45-2				93		%
Selenium	82-1	-0.07	0.13	-0.09	-0.01		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	0.57	0.51	-0.23	0.28	157.14	ppb
Silicon	28-1	-0.12	-0.15	0.11	-0.05		ppb
Silver	107-1	0.01	0.01	0.01	0.01	26.93	ppb
Silver	109-1	0.01	0.01	0.01	0.01	30.16	ppb
Sodium	23-2	29.84	26.45	28.92	28.40	6.16	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	32.03	ppb
Sulfur	34-1	-770.61	-781.89	-612.85	-721.78		ppb
Terbium	159-1				93		%
Terbium	159-2				95		%
Thallium	203-1	0.05	0.04	0.04	0.04	11.42	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	7.00	ppb
Tin	118-1	0.00	0.00	0.20	0.07	173.73	ppb
Titanium	47-1	0.02	0.02	0.02	0.02	17.32	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	41.06	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	49.88	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				95		%
Zinc	66-2	0.18	0.14	0.05	0.12	50.49	ppb
Zirconium	90-1	0.04	0.01	0.01	0.02	99.24	ppb
Zirconium	91-1	0.03	0.02	0.01	0.02	71.10	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.27	4.20	4.15	3.54	31.10	ppb
Antimony	121-1	0.02	0.01	0.02	0.02	16.86	ppb
Arsenic	75-2	0.04	0.07	0.10	0.07	48.53	ppb
Barium	135-1	42.27	40.99	41.62	41.62	1.54	ppb
Barium	137-1	42.44	41.25	41.46	41.72	1.52	ppb
Beryllium	9-1	0.10	0.10	0.11	0.10	3.11	ppb
Bismuth	209-1				91		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.18	0.07	0.05	0.10	74.28	ppb
Cadmium	106-1	-1.39	-1.27	-1.91	-1.52		ppb
Cadmium	111-1	0.00	0.02	-0.01	0.01	238.65	ppb
Calcium	43-1	7006.51	6935.53	6830.85	6924.30	1.28	ppb
Calcium	44-1	7298.50	7157.72	7294.89	7250.37	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	739.04	738.22	766.72	747.99	2.17	ppb
Cobalt	59-2	1.50	1.49	1.57	1.52	2.74	ppb
Copper	63-2	0.97	0.81	0.90	0.90	8.80	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				92		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	626.45	622.19	633.98	627.54	0.95	ppb
Iron	56-2	23.58	23.38	24.58	23.85	2.70	ppb
Iron	57-2	28.40	23.95	28.29	26.88	9.44	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.07	0.08	0.08	19.51	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.08	0.07	0.08	12.79	ppb
Lead	208-1	0.08	0.07	0.08	0.08	6.38	ppb
Lithium	6-1				94		%
Magnesium	24-2	2755.42	2699.46	2825.99	2760.29	2.30	ppb
Manganese	55-2	45.50	44.43	46.13	45.35	1.89	ppb
Molybdenum	94-1	0.01	0.03	0.03	0.03	40.39	ppb
Molybdenum	95-1	0.04	0.03	0.03	0.03	11.15	ppb
Molybdenum	96-1	0.04	0.05	0.02	0.04	31.66	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.03	18.97	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	8.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.41	21.70	22.67	21.93	3.01	ppb
Phosphorus	31-2	-15.40	-19.76	-21.03	-18.73		ppb
Potassium	39-2	178.12	176.48	183.82	179.47	2.15	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				95		%
Scandium	45-2				92		%
Selenium	82-1	0.03	0.13	-0.20	-0.01		ppb
Selenium	77-2	0.62	-0.29	-0.29	0.01	3504.94	ppb
Selenium	78-2	0.03	0.81	0.59	0.47	84.86	ppb
Silicon	28-1	400.50	401.18	394.49	398.72	0.92	ppb
Silver	107-1	0.01	0.01	0.01	0.01	4.14	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.75	ppb
Sodium	23-2	2699.03	2670.10	2736.40	2701.84	1.23	ppb
Strontium	86-1	15.25	15.50	15.41	15.39	0.82	ppb
Strontium	88-1	15.54	15.23	15.37	15.38	1.01	ppb
Sulfur	34-1	344.20	199.77	115.52	219.83	52.61	ppb
Terbium	159-1				93		%
Terbium	159-2				95		%
Thallium	203-1	0.03	0.03	0.04	0.03	10.45	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.75	ppb
Tin	118-1	0.03	0.02	0.01	0.02	41.07	ppb
Titanium	47-1	0.13	0.11	0.07	0.10	26.73	ppb
Uranium	238-1	0.11	0.11	0.11	0.11	3.28	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.05	0.07	0.05	34.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				94		%
Zinc	66-2	2.25	2.38	2.83	2.48	12.27	ppb
Zirconium	90-1	0.01	0.00	0.00	0.00	71.43	ppb
Zirconium	91-1	0.01	0.01	0.00	0.00	28.61	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49629.84	49220.23	48665.53	49171.87	0.98	ppb
Antimony	121-1	479.79	499.26	499.03	492.69	2.27	ppb
Arsenic	75-2	481.91	491.63	486.44	486.66	1.00	ppb
Barium	135-1	2425.83	2499.27	2501.74	2475.61	1.74	ppb
Barium	137-1	2412.35	2501.56	2535.01	2482.97	2.55	ppb
Beryllium	9-1	488.44	490.18	495.04	491.22	0.70	ppb
Bismuth	209-1				79		%
Bismuth	209-2				79		%
Bromine	81-1						cps
Cadmium	108-1	465.12	483.98	482.13	477.08	2.18	ppb
Cadmium	106-1	463.47	481.47	484.78	476.57	2.41	ppb
Cadmium	111-1	462.09	481.75	482.83	475.56	2.46	ppb
Calcium	43-1	243601.33	251583.78	248909.46	248031.53	1.64	ppb
Calcium	44-1	244500.83	252253.90	251255.49	249336.74	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	501.61	502.37	509.62	504.53	0.88	ppb
Cobalt	59-2	501.61	493.29	494.56	496.49	0.90	ppb
Copper	63-2	4728.51	4705.96	4750.17	4728.21	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				88		%
Holmium	165-2				90		%
Indium	115-1				85		%
Indium	115-2				85		%
Iron	54-2	127538.30	127352.12	128446.64	127779.02	0.46	ppb
Iron	56-2	126199.48	125580.48	128110.69	126630.22	1.04	ppb
Iron	57-2	127998.35	125895.21	127616.81	127170.12	0.88	ppb
Krypton	83-1						cps
Lead	206-1	2446.16	2500.86	2532.48	2493.17	1.75	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2449.83	2495.58	2504.85	2483.42	1.19	ppb
Lead	208-1	2453.98	2496.32	2508.17	2486.16	1.15	ppb
Lithium	6-1				85		%
Magnesium	24-2	270334.10	267712.75	266933.80	268326.89	0.66	ppb
Manganese	55-2	4999.42	5023.92	5058.80	5027.38	0.59	ppb
Molybdenum	94-1	4846.61	4991.69	5004.13	4947.48	1.77	ppb
Molybdenum	95-1	4889.24	4977.56	5013.68	4960.16	1.29	ppb
Molybdenum	96-1	4871.40	4991.97	5000.44	4954.60	1.46	ppb
Molybdenum	97-1	4847.65	4966.33	4965.11	4926.36	1.38	ppb
Molybdenum	98-1	4870.92	4967.61	5044.86	4961.13	1.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	490.65	489.50	492.22	490.79	0.28	ppb
Phosphorus	31-2	9786.61	9835.79	9714.50	9778.97	0.62	ppb
Potassium	39-2	123561.92	123538.70	123518.57	123539.73	0.02	ppb
Rhodium	103-1				80		%
Rhodium	103-2				80		%
Scandium	45-1				89		%
Scandium	45-2				89		%
Selenium	82-1	459.21	473.50	471.53	468.08	1.65	ppb
Selenium	77-2	492.87	483.36	471.13	482.46	2.26	ppb
Selenium	78-2	489.44	486.23	477.09	484.25	1.32	ppb
Silicon	28-1	516.80	520.79	513.64	517.07	0.69	ppb
Silver	107-1	461.91	481.45	473.90	472.42	2.09	ppb
Silver	109-1	462.42	488.16	478.46	476.35	2.73	ppb
Sodium	23-2	252070.53	248437.10	249434.53	249980.72	0.75	ppb
Strontium	86-1	491.36	499.55	503.00	497.97	1.20	ppb
Strontium	88-1	480.38	499.17	491.33	490.29	1.92	ppb
Sulfur	34-1	9039.64	9578.14	9492.85	9370.21	3.09	ppb
Terbium	159-1				89		%
Terbium	159-2				90		%
Thallium	203-1	501.04	505.30	507.41	504.58	0.64	ppb
Thallium	205-1	495.24	498.71	502.81	498.92	0.76	ppb
Tin	118-1	485.55	505.43	502.42	497.80	2.15	ppb
Titanium	47-1	4857.43	4993.84	4998.36	4949.88	1.62	ppb
Uranium	238-1	508.08	519.74	519.93	515.92	1.32	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	479.51	478.35	482.57	480.14	0.45	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				89		%
Zinc	66-2	4821.34	4766.24	4865.17	4817.58	1.03	ppb
Zirconium	90-1	481.02	497.63	499.12	492.59	2.04	ppb
Zirconium	91-1	485.28	495.11	511.04	497.15	2.61	ppb

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.73	1.22	0.97	0.97	25.16	ppb
Antimony	121-1	0.11	0.11	0.09	0.10	12.39	ppb
Arsenic	75-2	0.01	0.05	0.05	0.04	64.86	ppb
Barium	135-1	0.26	0.24	0.21	0.24	12.06	ppb
Barium	137-1	0.27	0.22	0.18	0.22	20.78	ppb
Beryllium	9-1	0.13	0.14	0.12	0.13	9.99	ppb
Bismuth	209-1				92		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.16	0.16	0.09	0.14	28.76	ppb
Cadmium	106-1	-1.01	-1.65	-2.10	-1.59		ppb
Cadmium	111-1	0.01	0.00	-0.02	0.00		ppb
Calcium	43-1	14.06	13.25	6.31	11.21	37.99	ppb
Calcium	44-1	13.05	9.85	5.16	9.35	42.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.03	0.04	0.03	54.62	ppb
Cobalt	59-2	0.04	0.03	0.02	0.03	36.05	ppb
Copper	63-2	0.04	0.06	0.01	0.04	64.26	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				94		%
Holmium	165-2				94		%
Indium	115-1				97		%
Indium	115-2				95		%
Iron	54-2	-1.10	-2.19	-2.70	-2.00		ppb
Iron	56-2	-4.77	-5.19	-6.44	-5.47		ppb
Iron	57-2	-1.66	-1.85	-3.55	-2.36		ppb
Krypton	83-1						cps
Lead	206-1	0.27	0.24	0.19	0.23	17.52	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.27	0.25	0.18	0.24	20.95	ppb
Lead	208-1	0.27	0.23	0.19	0.23	17.05	ppb
Lithium	6-1				96		%
Magnesium	24-2	5.12	4.43	2.27	3.94	37.77	ppb
Manganese	55-2	0.21	0.18	0.13	0.17	24.61	ppb
Molybdenum	94-1	0.36	0.31	0.20	0.29	27.95	ppb
Molybdenum	95-1	0.38	0.31	0.20	0.30	31.75	ppb
Molybdenum	96-1	0.36	0.30	0.20	0.29	28.80	ppb
Molybdenum	97-1	0.38	0.32	0.20	0.30	30.24	ppb
Molybdenum	98-1	0.35	0.29	0.20	0.28	28.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.03	-0.05	-0.04		ppb
Phosphorus	31-2	-32.03	-31.80	-21.18	-28.34		ppb
Potassium	39-2	19.55	20.00	17.91	19.15	5.75	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				94		%
Selenium	82-1	-0.30	-0.19	-0.03	-0.17		ppb
Selenium	77-2	-0.29	-0.29	-0.29	-0.29		ppb
Selenium	78-2	-0.24	0.29	-0.50	-0.15		ppb
Silicon	28-1	-0.66	-0.24	-0.21	-0.37		ppb
Silver	107-1	0.07	0.05	0.04	0.05	31.01	ppb
Silver	109-1	0.08	0.06	0.05	0.06	20.25	ppb
Sodium	23-2	41.60	39.24	37.12	39.32	5.70	ppb
Strontium	86-1	0.04	0.03	0.01	0.02	59.78	ppb
Strontium	88-1	0.03	0.02	0.01	0.02	36.85	ppb
Sulfur	34-1	-1029.65	-730.07	-725.46	-828.39		ppb
Terbium	159-1				95		%
Terbium	159-2				95		%
Thallium	203-1	0.06	0.05	0.05	0.06	10.70	ppb
Thallium	205-1	0.06	0.06	0.05	0.06	16.51	ppb
Tin	118-1	0.11	0.03	0.01	0.05	100.81	ppb
Titanium	47-1	0.26	0.23	0.09	0.19	45.94	ppb
Uranium	238-1	0.03	0.02	0.01	0.02	33.76	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	47.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				95		%
Zinc	66-2	0.28	0.27	0.39	0.32	21.42	ppb
Zirconium	90-1	0.03	0.03	0.02	0.03	27.96	ppb
Zirconium	91-1	0.04	0.03	0.02	0.03	19.92	ppb

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	80	57	73	70	17.17	cps
Antimony	121-1	67	53	77	66	17.86	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	343	310	257	303	14.41	cps
Barium	137-1	463	517	453	478	7.13	cps
Beryllium	9-1	305	304	294	301	2.05	cps
Bismuth	209-1	11337731	11586299	11375159	11433063	1.17	cps
Bismuth	209-2	4386434	4331518	4345435	4354462	0.66	cps
Bromine	81-1	6508	6475	6502	6495	0.27	cps
Cadmium	108-1	27	30	20	26	19.92	cps
Cadmium	106-1	8663	8393	8296	8450	2.25	cps
Cadmium	111-1	1731	1674	1679	1694	1.85	cps
Calcium	43-1	607	653	697	652	6.90	cps
Calcium	44-1	12392	12602	12592	12529	0.95	cps
Carbon	12-1	2984525	3012293	2969485	2988768	0.73	cps
Carbon	12-2	20354	20307	20388	20350	0.20	cps
Chlorine	35-1	87844	87790	86272	87302	1.02	cps
Chlorine	35-2	330	253	400	328	22.38	cps
Chromium	52-2	523	513	460	499	6.83	cps
Cobalt	59-2	77	50	77	68	22.72	cps
Copper	63-2	3347	3464	3534	3448	2.74	cps
Dysprosium	156-1	77	27	60	54	46.76	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	87	73	110	90	20.62	cps
Erbium	164-2	17	23	17	19	20.36	cps
Gadolinium	160-1	87	90	93	90	3.70	cps
Gadolinium	160-2	20	10	23	18	39.03	cps
Holmium	165-1	18605193	18379933	18160183	18381770	1.21	cps
Holmium	165-2	6124225	6053534	6019860	6065873	0.88	cps
Indium	115-1	14291577	14044218	14065331	14133709	0.97	cps
Indium	115-2	1333134	1326463	1329763	1329787	0.25	cps
Iron	54-2	780	840	943	854	9.67	cps
Iron	56-2	39540	14244	13830	22538	65.34	cps
Iron	57-2	360	410	363	378	7.40	cps
Krypton	83-1	160	147	140	149	6.84	cps
Lead	206-1	1010	1120	1057	1062	5.20	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	957	883	887	909	4.56	cps
Lead	208-1	4300	4274	4287	4287	0.31	cps
Lithium	6-1	7523376	7464031	7391790	7459732	0.88	cps
Magnesium	24-2	627	367	490	494	26.30	cps
Manganese	55-2	93	123	143	120	20.98	cps
Molybdenum	94-1	390	380	340	370	7.15	cps
Molybdenum	95-1	147	150	153	150	2.22	cps
Molybdenum	96-1	203	173	190	189	7.96	cps
Molybdenum	97-1	100	67	73	80	22.05	cps
Molybdenum	98-1	210	173	290	224	26.58	cps
Neodymium	150-1	13	20	20	18	21.66	cps
Neodymium	150-2	3	10	3	6	69.34	cps
Nickel	60-2	1093	1193	1177	1155	4.64	cps
Phosphorus	31-2	80	83	70	78	8.92	cps
Potassium	39-2	7002	7175	6582	6919	4.41	cps
Rhodium	103-1	13153392	13193086	12992306	13112928	0.81	cps
Rhodium	103-2	4819152	4807303	4819765	4815407	0.15	cps
Scandium	45-1	10314797	10208007	10124233	10215679	0.93	cps
Scandium	45-2	175902	178525	177107	177178	0.74	cps
Selenium	82-1	17	83	37	46	75.09	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	0	10	10	7	86.60	cps
Silicon	28-1	437237	441064	438754	439018	0.44	cps
Silver	107-1	193	177	223	198	11.96	cps
Silver	109-1	53	97	70	73	29.81	cps
Sodium	23-2	19847	19707	19717	19757	0.40	cps
Strontium	86-1	303	287	333	308	7.68	cps
Strontium	88-1	393	373	407	391	4.29	cps
Sulfur	34-1	463398	463247	460187	462277	0.39	cps
Terbium	159-1	18599487	18540030	18549006	18562841	0.17	cps
Terbium	159-2	5882607	5799302	5813244	5831718	0.77	cps
Thallium	203-1	210	250	187	216	14.86	cps
Thallium	205-1	557	533	587	559	4.78	cps
Tin	118-1	1510	1307	2048	1622	23.62	cps
Titanium	47-1	170	233	163	189	20.45	cps
Uranium	238-1	67	50	83	67	25.00	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:16:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	7	7	6	34.70	cps
Ytterbium	172-1	83	77	110	90	19.60	cps
Ytterbium	172-2	67	23	40	43	50.45	cps
Ytterbium	176-1	2670	2640	2517	2609	3.12	cps
Ytterbium	176-2	473	413	460	449	7.02	cps
Yttrium	89-1	25746980	25837588	25237914	25607494	1.26	cps
Yttrium	89-2	1791973	1790659	1798323	1793652	0.23	cps
Zinc	66-2	303	230	247	260	14.79	cps
Zirconium	90-1	797	900	863	853	6.14	cps
Zirconium	91-1	163	153	180	166	8.13	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1477	1453	1413	1448	2.21	cps
Antimony	121-1	30968	31209	31266	31148	0.51	cps
Arsenic	75-2	353	293	290	312	11.42	cps
Barium	135-1	40022	41630	41166	40939	2.02	cps
Barium	137-1	69176	69634	70445	69752	0.92	cps
Beryllium	9-1	6184	6153	6181	6173	0.28	cps
Bismuth	209-1	13671299	11423043	11154579	12082973	11.44	cps
Bismuth	209-2	4263218	4026761	4210747	4166908	2.98	cps
Bromine	81-1	6448	6438	6275	6387	1.52	cps
Cadmium	108-1	400	353	327	360	10.31	cps
Cadmium	106-1	10478	8916	8786	9393	10.02	cps
Cadmium	111-1	6140	5743	5856	5913	3.45	cps
Calcium	43-1	30613	31675	31057	31115	1.71	cps
Calcium	44-1	495593	505844	503340	501592	1.07	cps
Carbon	12-1	3379862	3447928	3412066	3413286	1.00	cps
Carbon	12-2	23138	23265	23125	23176	0.33	cps
Chlorine	35-1	88984	88991	89088	89021	0.07	cps
Chlorine	35-2	307	387	400	364	13.85	cps
Chromium	52-2	7279	7595	7395	7423	2.16	cps
Cobalt	59-2	6642	6835	6385	6620	3.41	cps
Copper	63-2	13563	13133	13153	13283	1.83	cps
Dysprosium	156-1	47	60	47	51	15.06	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	103	93	113	103	9.68	cps
Erbium	164-2	33	17	17	22	43.28	cps
Gadolinium	160-1	97	90	97	94	4.08	cps
Gadolinium	160-2	17	3	10	10	66.70	cps
Holmium	165-1	21824749	18320243	17820649	19321881	11.29	cps
Holmium	165-2	5962580	5652497	5887087	5834054	2.77	cps
Indium	115-1	16770583	14200071	13689631	14886762	11.09	cps
Indium	115-2	1318930	1221941	1295309	1278727	3.96	cps
Iron	54-2	7565	8032	7602	7733	3.36	cps
Iron	56-2	136226	135304	136519	136016	0.47	cps
Iron	57-2	3657	3474	3417	3516	3.57	cps
Krypton	83-1	193	197	157	182	12.18	cps
Lead	206-1	13771	14181	14819	14257	3.70	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11892	12383	12603	12293	2.96	cps
Lead	208-1	55280	56538	58288	56702	2.66	cps
Lithium	6-1	8832045	7740559	7378758	7983787	9.48	cps
Magnesium	24-2	128587	129789	128228	128868	0.63	cps
Manganese	55-2	1613	1567	1533	1571	2.56	cps
Molybdenum	94-1	33400	33831	33945	33725	0.85	cps
Molybdenum	95-1	39810	40586	41047	40481	1.54	cps
Molybdenum	96-1	43638	45097	45233	44656	1.98	cps
Molybdenum	97-1	25083	25567	26068	25573	1.93	cps
Molybdenum	98-1	63876	66123	65681	65227	1.83	cps
Neodymium	150-1	13	40	23	26	52.73	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	2970	2907	2760	2879	3.74	cps
Phosphorus	31-2	177	223	210	203	11.82	cps
Potassium	39-2	75245	76344	76779	76122	1.04	cps
Rhodium	103-1	15619776	13006887	12710191	13778951	11.62	cps
Rhodium	103-2	4730938	4401675	4634900	4589171	3.69	cps
Scandium	45-1	12491089	10252890	9976364	10906781	12.64	cps
Scandium	45-2	175190	163098	172176	170155	3.70	cps
Selenium	82-1	1277	1270	1333	1293	2.69	cps
Selenium	77-2	47	33	17	32	46.65	cps
Selenium	78-2	83	93	97	91	7.62	cps
Silicon	28-1	521877	520156	522085	521373	0.20	cps
Silver	107-1	20599	20432	21316	20782	2.26	cps
Silver	109-1	18586	19507	19634	19242	2.97	cps
Sodium	23-2	266009	267478	266052	266513	0.31	cps
Strontium	86-1	5711	5755	6071	5846	3.36	cps
Strontium	88-1	46350	47327	49126	47601	2.96	cps
Sulfur	34-1	475922	471629	475629	474394	0.51	cps
Terbium	159-1	22161718	18619287	18234353	19671786	11.01	cps
Terbium	159-2	5947937	5357231	5657420	5654196	5.22	cps
Thallium	203-1	16217	16788	16697	16567	1.85	cps
Thallium	205-1	39370	40242	39784	39799	1.10	cps
Tin	118-1	67920	68765	70741	69142	2.09	cps
Titanium	47-1	13256	13009	13163	13143	0.95	cps
Uranium	238-1	51518	51548	51916	51660	0.43	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:23:37	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13253	12949	13400	13201	1.74	cps
Ytterbium	172-1	127	107	107	113	10.19	cps
Ytterbium	172-2	40	37	17	31	40.56	cps
Ytterbium	176-1	3060	2720	2690	2824	7.28	cps
Ytterbium	176-2	383	340	407	377	8.98	cps
Yttrium	89-1	30286423	25740861	24994333	27007206	10.61	cps
Yttrium	89-2	1751604	1620772	1769684	1714020	4.74	cps
Zinc	66-2	2934	3077	3000	3004	2.39	cps
Zirconium	90-1	28713	28806	29381	28967	1.25	cps
Zirconium	91-1	6178	6412	6458	6349	2.36	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	69023	66390	65309	66907	2.85	cps
Antimony	121-1	742328	760550	761600	754826	1.44	cps
Arsenic	75-2	13807	13176	12763	13249	3.97	cps
Barium	135-1	939497	984765	964947	963069	2.36	cps
Barium	137-1	1721432	1790385	1764149	1758655	1.98	cps
Beryllium	9-1	276923	285043	279047	280338	1.50	cps
Bismuth	209-1	13624118	8837095	10946741	11135985	21.54	cps
Bismuth	209-2	4595789	4370488	4323673	4429983	3.28	cps
Bromine	81-1	6652	6795	6548	6665	1.86	cps
Cadmium	108-1	15936	16924	15943	16267	3.49	cps
Cadmium	106-1	32652	29348	31432	31144	5.36	cps
Cadmium	111-1	189467	194322	198416	194068	2.31	cps
Calcium	43-1	279371	289799	288988	286053	2.03	cps
Calcium	44-1	4695212	4839736	4681968	4738972	1.85	cps
Carbon	12-1	3273415	3432954	3438884	3381751	2.78	cps
Carbon	12-2	22754	22524	22788	22689	0.63	cps
Chlorine	35-1	91530	90983	92654	91722	0.93	cps
Chlorine	35-2	357	313	347	339	6.70	cps
Chromium	52-2	161931	157132	157361	158808	1.70	cps
Cobalt	59-2	300742	295820	293852	296805	1.20	cps
Copper	63-2	2419514	2339169	2299309	2352664	2.60	cps
Dysprosium	156-1	87	80	67	78	13.09	cps
Dysprosium	156-2	10	3	3	6	69.34	cps
Erbium	164-1	110	90	93	98	10.96	cps
Erbium	164-2	40	37	37	38	5.09	cps
Gadolinium	160-1	83	93	87	88	5.80	cps
Gadolinium	160-2	10	27	17	18	47.19	cps
Holmium	165-1	22342324	14170077	17564001	18025468	22.78	cps
Holmium	165-2	6488984	6182373	6026011	6232456	3.78	cps
Indium	115-1	17025166	10949244	13469040	13814483	22.10	cps
Indium	115-2	1402843	1350933	1314192	1355989	3.28	cps
Iron	54-2	331861	327127	322558	327182	1.42	cps
Iron	56-2	6299892	6115587	6066739	6160739	2.00	cps
Iron	57-2	151178	146915	145925	148006	1.89	cps
Krypton	83-1	190	200	127	172	23.09	cps
Lead	206-1	3347987	3425144	3419399	3397510	1.27	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2838482	2955756	2895884	2896707	2.02	cps
Lead	208-1	13054278	13522882	13433800	13336986	1.87	cps
Lithium	6-1	8823291	6117615	7218866	7386590	18.42	cps
Magnesium	24-2	1224174	1240985	1190366	1218508	2.12	cps
Manganese	55-2	692016	674460	665169	677215	2.01	cps
Molybdenum	94-1	2811564	2880245	2925229	2872346	1.99	cps
Molybdenum	95-1	4029154	4107642	4125571	4087455	1.25	cps
Molybdenum	96-1	4379000	4546078	4493949	4473009	1.91	cps
Molybdenum	97-1	2495883	2545695	2563133	2534904	1.38	cps
Molybdenum	98-1	6496001	6555758	6591567	6547775	0.74	cps
Neodymium	150-1	83	83	97	88	8.77	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	84405	82521	81518	82815	1.77	cps
Phosphorus	31-2	2994	3187	2944	3041	4.23	cps
Potassium	39-2	333106	326905	320702	326904	1.90	cps
Rhodium	103-1	15644941	10149213	12495160	12763105	21.61	cps
Rhodium	103-2	5035785	4807530	4675227	4839514	3.77	cps
Scandium	45-1	12401029	7848926	9709760	9986572	22.92	cps
Scandium	45-2	187148	179857	177170	181392	2.85	cps
Selenium	82-1	12566	11952	12729	12416	3.30	cps
Selenium	77-2	290	213	200	234	20.72	cps
Selenium	78-2	767	700	690	719	5.80	cps
Silicon	28-1	2603534	2693706	2675962	2657734	1.80	cps
Silver	107-1	998923	1039365	1045884	1028057	2.47	cps
Silver	109-1	957718	995386	986874	979993	2.02	cps
Sodium	23-2	2433017	2402757	2373607	2403127	1.24	cps
Strontium	86-1	271177	276750	276375	274767	1.13	cps
Strontium	88-1	2455903	2535870	2511773	2501182	1.64	cps
Sulfur	34-1	556000	552087	544327	550805	1.08	cps
Terbium	159-1	22690062	14424631	18052430	18389041	22.53	cps
Terbium	159-2	6270060	5921276	5908355	6033230	3.40	cps
Thallium	203-1	791035	814519	813032	806195	1.63	cps
Thallium	205-1	2009417	2062692	2065987	2046032	1.55	cps
Tin	118-1	642196	670427	658618	657081	2.16	cps
Titanium	47-1	1271235	1297083	1263186	1277168	1.39	cps
Uranium	238-1	2562391	2699838	2716249	2659493	3.18	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:26:58	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	124401	119396	119403	121067	2.39	cps
Ytterbium	172-1	137	97	97	110	20.99	cps
Ytterbium	172-2	40	40	33	38	10.19	cps
Ytterbium	176-1	6705	5631	5991	6109	8.95	cps
Ytterbium	176-2	1540	1520	1660	1573	4.81	cps
Yttrium	89-1	31252783	19898916	24401665	25184454	22.70	cps
Yttrium	89-2	1874048	1842096	1749939	1822027	3.54	cps
Zinc	66-2	238948	236637	231761	235782	1.56	cps
Zirconium	90-1	1299649	1351869	1334056	1328525	2.00	cps
Zirconium	91-1	288404	300052	297877	295444	2.10	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	162159	162216	162533	162303	0.12	cps
Antimony	121-1	1902178	1921477	1998693	1940783	2.63	cps
Arsenic	75-2	33470	32969	33199	33212	0.76	cps
Barium	135-1	2446823	2492733	2541979	2493845	1.91	cps
Barium	137-1	4210728	4249468	4280145	4246780	0.82	cps
Beryllium	9-1	663078	665134	665235	664482	0.18	cps
Bismuth	209-1	11079058	11225857	11254940	11186618	0.84	cps
Bismuth	209-2	4259532	4181239	4259217	4233329	1.07	cps
Bromine	81-1	6278	6815	6652	6582	4.18	cps
Cadmium	108-1	40275	40419	39834	40176	0.76	cps
Cadmium	106-1	63582	64098	64496	64059	0.72	cps
Cadmium	111-1	459123	466017	471465	465535	1.33	cps
Calcium	43-1	680711	687510	688062	685428	0.60	cps
Calcium	44-1	11541998	11489122	11420294	11483804	0.53	cps
Carbon	12-1	3329587	3364682	3393788	3362686	0.96	cps
Carbon	12-2	23085	23031	23041	23053	0.12	cps
Chlorine	35-1	92513	93674	94355	93514	1.00	cps
Chlorine	35-2	370	400	340	370	8.11	cps
Chromium	52-2	391630	387957	391098	390228	0.51	cps
Cobalt	59-2	728436	727134	725481	727017	0.20	cps
Copper	63-2	5761166	5713158	5671334	5715219	0.79	cps
Dysprosium	156-1	87	107	90	94	11.35	cps
Dysprosium	156-2	0	10	0	3	173.21	cps
Erbium	164-1	117	103	113	111	6.24	cps
Erbium	164-2	30	43	50	41	24.77	cps
Gadolinium	160-1	100	100	57	86	29.24	cps
Gadolinium	160-2	43	20	20	28	48.49	cps
Holmium	165-1	18465023	18078031	18145417	18229490	1.13	cps
Holmium	165-2	6165694	6037464	5979112	6060757	1.57	cps
Indium	115-1	13915497	13762752	13854070	13844106	0.56	cps
Indium	115-2	1326583	1315867	1311421	1317957	0.59	cps
Iron	54-2	807395	798882	802106	802794	0.54	cps
Iron	56-2	15207651	15329006	15222865	15253174	0.43	cps
Iron	57-2	366560	367339	367015	366971	0.11	cps
Krypton	83-1	180	163	177	173	5.09	cps
Lead	206-1	8097972	8069093	8048220	8071762	0.31	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6985574	6961046	7033133	6993251	0.52	cps
Lead	208-1	31921191	32052585	32335473	32103083	0.66	cps
Lithium	6-1	7072902	7201744	7127291	7133979	0.91	cps
Magnesium	24-2	3049027	2957752	2945351	2984043	1.90	cps
Manganese	55-2	1791607	1769352	1766379	1775779	0.78	cps
Molybdenum	94-1	6734185	6924813	6862295	6840431	1.42	cps
Molybdenum	95-1	9766965	9851931	9989064	9869320	1.14	cps
Molybdenum	96-1	10770694	10651994	10763850	10728846	0.62	cps
Molybdenum	97-1	6023620	6085768	6147802	6085730	1.02	cps
Molybdenum	98-1	15675823	15928347	16121838	15908669	1.41	cps
Neodymium	150-1	187	203	260	217	17.74	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	199995	200046	202848	200963	0.81	cps
Phosphorus	31-2	7579	7262	7435	7425	2.14	cps
Potassium	39-2	791394	791852	795373	792873	0.27	cps
Rhodium	103-1	12848233	12689614	12774668	12770838	0.62	cps
Rhodium	103-2	4731323	4656254	4720454	4702677	0.86	cps
Scandium	45-1	10200933	10017008	9982483	10066808	1.17	cps
Scandium	45-2	175488	173568	174282	174446	0.56	cps
Selenium	82-1	30260	30637	30500	30466	0.63	cps
Selenium	77-2	477	487	570	511	10.03	cps
Selenium	78-2	1880	1653	1647	1727	7.69	cps
Silicon	28-1	5858277	5751780	5849111	5819723	1.01	cps
Silver	107-1	2653814	2659059	2639246	2650706	0.39	cps
Silver	109-1	2518826	2511440	2508363	2512876	0.21	cps
Sodium	23-2	5790098	5668405	5806561	5755021	1.31	cps
Strontium	86-1	656407	661975	668606	662329	0.92	cps
Strontium	88-1	5811637	5911095	6090721	5937817	2.38	cps
Sulfur	34-1	665088	662017	662323	663143	0.26	cps
Terbium	159-1	18750875	18415732	18474463	18547023	0.96	cps
Terbium	159-2	6018084	5881129	5897115	5932109	1.26	cps
Thallium	203-1	2080625	2093509	2084315	2086150	0.32	cps
Thallium	205-1	4900666	4940683	5005484	4948944	1.07	cps
Tin	118-1	1669838	1673155	1683475	1675489	0.42	cps
Titanium	47-1	3051874	3107588	3075340	3078267	0.91	cps
Uranium	238-1	6307802	6430528	6442931	6393754	1.17	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:30:05	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	301894	297760	300869	300174	0.72	cps
Ytterbium	172-1	120	83	137	113	24.08	cps
Ytterbium	172-2	53	80	67	67	20.00	cps
Ytterbium	176-1	11285	11021	11432	11246	1.85	cps
Ytterbium	176-2	3380	3507	3334	3407	2.63	cps
Yttrium	89-1	25920990	25064742	25774482	25586738	1.79	cps
Yttrium	89-2	1805547	1778791	1774484	1786274	0.94	cps
Zinc	66-2	578631	576641	580487	578587	0.33	cps
Zirconium	90-1	3444468	3440914	3472562	3452648	0.50	cps
Zirconium	91-1	706120	717228	726665	716671	1.43	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	317194	320771	320202	319389	0.60	cps
Antimony	121-1	3871149	3859279	3807478	3845969	0.88	cps
Arsenic	75-2	65806	66060	66168	66011	0.28	cps
Barium	135-1	4989536	4934106	4886636	4936759	1.04	cps
Barium	137-1	8493217	8516877	8452754	8487616	0.38	cps
Beryllium	9-1	1363693	1381004	1375586	1373428	0.64	cps
Bismuth	209-1	10809010	11304368	11392886	11168755	2.82	cps
Bismuth	209-2	4240333	3999992	4198506	4146277	3.10	cps
Bromine	81-1	6518	6815	6838	6724	2.65	cps
Cadmium	108-1	78656	78603	77204	78154	1.05	cps
Cadmium	106-1	116631	118032	117165	117276	0.60	cps
Cadmium	111-1	905869	914181	919612	913221	0.76	cps
Calcium	43-1	1424040	1428029	1418570	1423546	0.33	cps
Calcium	44-1	22633624	22841926	22935027	22803526	0.68	cps
Carbon	12-1	3357595	3399157	3418368	3391707	0.92	cps
Carbon	12-2	23869	23839	23883	23864	0.09	cps
Chlorine	35-1	94834	96328	96743	95968	1.05	cps
Chlorine	35-2	390	413	297	367	16.84	cps
Chromium	52-2	766736	776272	767494	770167	0.69	cps
Cobalt	59-2	1525991	1510866	1490750	1509202	1.17	cps
Copper	63-2	11235531	11205107	11097083	11179240	0.65	cps
Dysprosium	156-1	113	140	153	136	15.02	cps
Dysprosium	156-2	17	27	3	16	75.27	cps
Erbium	164-1	143	130	167	147	12.65	cps
Erbium	164-2	30	37	30	32	11.95	cps
Gadolinium	160-1	133	100	130	121	15.16	cps
Gadolinium	160-2	23	40	33	32	26.04	cps
Holmium	165-1	17694621	18843309	19022085	18520005	3.89	cps
Holmium	165-2	6079967	5687205	6091918	5953030	3.87	cps
Indium	115-1	13423775	14071618	14224652	13906682	3.06	cps
Indium	115-2	1300241	1229727	1301088	1277019	3.21	cps
Iron	54-2	1674607	1739484	1655354	1689815	2.61	cps
Iron	56-2	30433320	30263803	30124265	30273796	0.51	cps
Iron	57-2	721199	727461	727353	725337	0.49	cps
Krypton	83-1	213	143	173	177	19.88	cps
Lead	206-1	15947399	16128998	16006732	16027710	0.58	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13622730	13768793	13824833	13738785	0.76	cps
Lead	208-1	63098511	63784248	63306193	63396317	0.55	cps
Lithium	6-1	6972469	7198333	7248100	7139634	2.06	cps
Magnesium	24-2	5715263	5843089	5824087	5794147	1.19	cps
Manganese	55-2	3486770	3533329	3462677	3494259	1.03	cps
Molybdenum	94-1	13630271	13771272	13685866	13695803	0.52	cps
Molybdenum	95-1	19595340	19857844	19846933	19766706	0.75	cps
Molybdenum	96-1	21534742	21398639	21519871	21484417	0.35	cps
Molybdenum	97-1	12137309	12147044	12232789	12172381	0.43	cps
Molybdenum	98-1	31742192	32023727	31927865	31897928	0.45	cps
Neodymium	150-1	507	403	507	472	12.63	cps
Neodymium	150-2	23	20	7	17	52.90	cps
Nickel	60-2	390557	394786	394018	393120	0.57	cps
Phosphorus	31-2	14054	14624	14731	14470	2.52	cps
Potassium	39-2	1647934	1662212	1613039	1641061	1.54	cps
Rhodium	103-1	12183519	12726197	12973536	12627751	3.20	cps
Rhodium	103-2	4600875	4430485	4657636	4562999	2.59	cps
Scandium	45-1	9600893	10263247	10463789	10109310	4.47	cps
Scandium	45-2	175568	168091	174013	172557	2.29	cps
Selenium	82-1	60179	60584	60688	60484	0.44	cps
Selenium	77-2	1017	1060	1033	1037	2.11	cps
Selenium	78-2	3347	3097	3267	3237	3.94	cps
Silicon	28-1	10910757	10835815	10856134	10867569	0.36	cps
Silver	107-1	5090302	5237842	5076758	5134968	1.74	cps
Silver	109-1	4941469	4889246	4907819	4912845	0.54	cps
Sodium	23-2	11337824	11504672	11252946	11365147	1.13	cps
Strontium	86-1	1303043	1318474	1322082	1314533	0.77	cps
Strontium	88-1	11892962	11908631	11891694	11897762	0.08	cps
Sulfur	34-1	875569	875398	873052	874673	0.16	cps
Terbium	159-1	17915512	19154811	19261031	18777118	3.98	cps
Terbium	159-2	5828372	5589334	5885161	5767622	2.72	cps
Thallium	203-1	4162814	4136427	4178392	4159211	0.51	cps
Thallium	205-1	9644067	9826253	9679687	9716669	0.99	cps
Tin	118-1	3326094	3352821	3343699	3340872	0.41	cps
Titanium	47-1	6048815	6097479	6082500	6076265	0.41	cps
Uranium	238-1	12664401	12621378	12719259	12668346	0.39	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:33:02	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	596349	601670	593252	597090	0.71	cps
Ytterbium	172-1	113	163	193	157	25.80	cps
Ytterbium	172-2	73	47	53	58	24.02	cps
Ytterbium	176-1	19651	19752	19938	19780	0.74	cps
Ytterbium	176-2	6228	6282	6172	6227	0.88	cps
Yttrium	89-1	24856475	25714795	26036760	25536010	2.39	cps
Yttrium	89-2	1808607	1730572	1784316	1774498	2.25	cps
Zinc	66-2	1135683	1145204	1135257	1138715	0.49	cps
Zirconium	90-1	6823679	6841417	6794717	6819938	0.35	cps
Zirconium	91-1	1514318	1511815	1520085	1515406	0.28	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	640029	637789	643513	640444	0.45	cps
Antimony	121-1	7728349	7705124	7762824	7732099	0.38	cps
Arsenic	75-2	132866	134393	134010	133757	0.59	cps
Barium	135-1	9694788	9969499	10026668	9896985	1.79	cps
Barium	137-1	16901174	17211700	17075709	17062861	0.91	cps
Beryllium	9-1	2615528	2631286	2606443	2617752	0.48	cps
Bismuth	209-1	10802462	10874230	10883983	10853558	0.41	cps
Bismuth	209-2	4109962	4058358	4044934	4071085	0.84	cps
Bromine	81-1	6942	7279	7135	7119	2.37	cps
Cadmium	108-1	154434	156729	157839	156334	1.11	cps
Cadmium	106-1	222508	223739	227243	224497	1.09	cps
Cadmium	111-1	1924299	1939302	1952196	1938599	0.72	cps
Calcium	43-1	2802273	2827779	2869838	2833297	1.20	cps
Calcium	44-1	44693479	45409701	46017539	45373573	1.46	cps
Carbon	12-1	3539971	3640447	3606997	3595805	1.42	cps
Carbon	12-2	25843	26163	26641	26216	1.53	cps
Chlorine	35-1	103943	106270	106944	105719	1.49	cps
Chlorine	35-2	480	370	413	421	13.16	cps
Chromium	52-2	1645415	1623135	1625487	1631346	0.75	cps
Cobalt	59-2	2975866	3027948	3002774	3002196	0.87	cps
Copper	63-2	22308011	21890526	22145357	22114631	0.95	cps
Dysprosium	156-1	243	207	197	216	11.40	cps
Dysprosium	156-2	17	30	33	27	33.06	cps
Erbium	164-1	160	197	187	181	10.47	cps
Erbium	164-2	63	40	57	53	22.53	cps
Gadolinium	160-1	120	140	117	126	10.05	cps
Gadolinium	160-2	63	50	47	53	16.53	cps
Holmium	165-1	18545981	18320482	18415857	18427440	0.61	cps
Holmium	165-2	6110094	5966459	5974420	6016991	1.34	cps
Indium	115-1	13728247	13654279	13565122	13649216	0.60	cps
Indium	115-2	1265069	1271434	1273777	1270093	0.35	cps
Iron	54-2	3401215	3320884	3328158	3350086	1.33	cps
Iron	56-2	59983969	60223021	59564279	59923756	0.56	cps
Iron	57-2	1501293	1566511	1502304	1523369	2.45	cps
Krypton	83-1	250	213	170	211	18.97	cps
Lead	206-1	31449170	31834658	31965345	31749724	0.85	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26966037	27837432	27774253	27525907	1.77	cps
Lead	208-1	124677766	127116376	127368902	126387681	1.18	cps
Lithium	6-1	6916348	6786775	6735066	6812730	1.37	cps
Magnesium	24-2	11538968	11617869	11649436	11602091	0.49	cps
Manganese	55-2	6985200	6913869	6890550	6929873	0.71	cps
Molybdenum	94-1	27159478	27459548	27712467	27443831	1.01	cps
Molybdenum	95-1	39454948	39709520	39853099	39672522	0.51	cps
Molybdenum	96-1	42879476	43122631	43504674	43168927	0.73	cps
Molybdenum	97-1	24319019	24259715	24458964	24345899	0.42	cps
Molybdenum	98-1	63106574	63834369	64344016	63761653	0.98	cps
Neodymium	150-1	740	833	887	820	9.05	cps
Neodymium	150-2	37	37	37	37	0.00	cps
Nickel	60-2	766111	764728	773190	768010	0.59	cps
Phosphorus	31-2	29256	29396	28695	29116	1.27	cps
Potassium	39-2	3295220	3298765	3254544	3282843	0.75	cps
Rhodium	103-1	12389339	12137759	12394431	12307176	1.19	cps
Rhodium	103-2	4485059	4522655	4550257	4519323	0.72	cps
Scandium	45-1	10070817	9965669	9949389	9995292	0.66	cps
Scandium	45-2	172593	174047	174114	173585	0.50	cps
Selenium	82-1	119210	121189	119902	120101	0.84	cps
Selenium	77-2	1800	1913	1883	1866	3.15	cps
Selenium	78-2	6742	6755	6542	6679	1.79	cps
Silicon	28-1	21360597	21136460	21134372	21210476	0.61	cps
Silver	107-1	10039755	10338983	10447682	10275473	2.06	cps
Silver	109-1	9632366	9563154	9847540	9681020	1.53	cps
Sodium	23-2	23092035	22820348	22497007	22803130	1.31	cps
Strontium	86-1	2788002	2832478	2870476	2830319	1.46	cps
Strontium	88-1	23706124	24140035	24526989	24124383	1.70	cps
Sulfur	34-1	1188987	1196317	1164432	1183246	1.41	cps
Terbium	159-1	18770476	18739959	18803567	18771334	0.17	cps
Terbium	159-2	5805379	5791382	5942517	5846426	1.43	cps
Thallium	203-1	8137733	8195804	8157709	8163749	0.36	cps
Thallium	205-1	19265373	19590914	19467032	19441107	0.85	cps
Tin	118-1	6648231	6574900	6598539	6607223	0.57	cps
Titanium	47-1	11972841	12300818	12182996	12152218	1.37	cps
Uranium	238-1	24966210	25610915	25803751	25460292	1.72	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:35:55	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1199309	1203337	1198181	1200276	0.23	cps
Ytterbium	172-1	197	190	193	193	1.72	cps
Ytterbium	172-2	63	73	77	71	9.76	cps
Ytterbium	176-1	37520	37486	37958	37655	0.70	cps
Ytterbium	176-2	12159	12246	12199	12201	0.36	cps
Yttrium	89-1	25408617	25257057	25517019	25394231	0.51	cps
Yttrium	89-2	1756652	1727612	1763943	1749402	1.10	cps
Zinc	66-2	2410946	2355336	2411515	2392599	1.35	cps
Zirconium	90-1	13558896	13885794	13889461	13778050	1.38	cps
Zirconium	91-1	3000847	3091732	3079065	3057215	1.61	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1357084	1312536	1302388	1324003	2.20	cps
Antimony	121-1	14900933	15271941	15109521	15094132	1.23	cps
Arsenic	75-2	262964	260682	260228	261291	0.56	cps
Barium	135-1	19360462	19675133	19427204	19487600	0.85	cps
Barium	137-1	33741332	33893185	33467308	33700608	0.64	cps
Beryllium	9-1	4874521	4970284	4913578	4919461	0.98	cps
Bismuth	209-1	10571699	10668778	10667995	10636158	0.52	cps
Bismuth	209-2	4027588	3961614	4004112	3997772	0.84	cps
Bromine	81-1	7539	7352	7232	7374	2.10	cps
Cadmium	108-1	298524	303010	297550	299695	0.97	cps
Cadmium	106-1	429515	432743	428109	430122	0.55	cps
Cadmium	111-1	3752028	3758910	3700952	3737297	0.85	cps
Calcium	43-1	5536520	5590871	5622160	5583184	0.78	cps
Calcium	44-1	89220715	89933155	90684989	89946286	0.81	cps
Carbon	12-1	3928825	4013980	4133435	4025413	2.55	cps
Carbon	12-2	30348	30094	30131	30191	0.45	cps
Chlorine	35-1	122563	124903	128107	125191	2.22	cps
Chlorine	35-2	460	480	507	482	4.86	cps
Chromium	52-2	3208070	3224496	3150849	3194472	1.21	cps
Cobalt	59-2	5806700	5805858	5755130	5789229	0.51	cps
Copper	63-2	42788201	42463984	42725143	42659109	0.40	cps
Dysprosium	156-1	350	450	347	382	15.36	cps
Dysprosium	156-2	57	37	67	53	28.64	cps
Erbium	164-1	377	253	287	306	20.88	cps
Erbium	164-2	73	70	57	67	13.22	cps
Gadolinium	160-1	270	240	237	249	7.38	cps
Gadolinium	160-2	47	30	73	50	43.71	cps
Holmium	165-1	18515438	18334348	18407409	18419065	0.49	cps
Holmium	165-2	6057764	6038960	5991968	6029564	0.56	cps
Indium	115-1	13373291	13385984	13359467	13372914	0.10	cps
Indium	115-2	1230083	1226216	1243356	1233218	0.73	cps
Iron	54-2	6506319	6494116	6449632	6483356	0.46	cps
Iron	56-2	116491842	115895115	116144212	116177056	0.26	cps
Iron	57-2	3005868	2998385	3005289	3003181	0.14	cps
Krypton	83-1	213	227	227	222	3.46	cps
Lead	206-1	62543582	62340601	63248971	62711051	0.76	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	53786836	54168121	54079641	54011533	0.37	cps
Lead	208-1	245932853	249739150	249093326	248255110	0.82	cps
Lithium	6-1	6681198	6535266	6690401	6635622	1.31	cps
Magnesium	24-2	22869130	22606023	22643376	22706176	0.63	cps
Manganese	55-2	13509693	13471996	13362306	13447998	0.57	cps
Molybdenum	94-1	54510824	54262571	54818616	54530670	0.51	cps
Molybdenum	95-1	78008929	78750589	79113302	78624273	0.72	cps
Molybdenum	96-1	84818440	86070484	87559395	86149440	1.59	cps
Molybdenum	97-1	48803969	48577626	49812179	49064591	1.34	cps
Molybdenum	98-1	128041178	127541518	127112998	127565231	0.36	cps
Neodymium	150-1	1517	1507	1683	1569	6.33	cps
Neodymium	150-2	53	67	60	60	11.12	cps
Nickel	60-2	1639939	1597969	1619450	1619119	1.30	cps
Phosphorus	31-2	57055	56426	56757	56746	0.55	cps
Potassium	39-2	6502431	6409076	6426741	6446083	0.77	cps
Rhodium	103-1	12235882	12117235	12126116	12159744	0.54	cps
Rhodium	103-2	4455672	4470532	4413927	4446710	0.66	cps
Scandium	45-1	9879398	10077245	10012980	9989874	1.01	cps
Scandium	45-2	175969	175693	176769	176144	0.32	cps
Selenium	82-1	232611	237336	236645	235531	1.08	cps
Selenium	77-2	3727	3881	3854	3821	2.14	cps
Selenium	78-2	12983	13029	13173	13062	0.76	cps
Silicon	28-1	40186862	40161655	40218414	40188977	0.07	cps
Silver	107-1	19630201	19822083	19463488	19638591	0.91	cps
Silver	109-1	18178954	18614365	18568333	18453884	1.30	cps
Sodium	23-2	45444661	44762761	44500416	44902613	1.09	cps
Strontium	86-1	5515353	5513427	5634148	5554310	1.24	cps
Strontium	88-1	47405021	47614349	47987551	47668974	0.62	cps
Sulfur	34-1	1850195	1884439	1874365	1869666	0.94	cps
Terbium	159-1	18782098	18796804	18863133	18814012	0.23	cps
Terbium	159-2	5843171	5904761	5881384	5876439	0.53	cps
Thallium	203-1	15884938	15887596	15928369	15900301	0.15	cps
Thallium	205-1	38049379	38282398	38560897	38297558	0.67	cps
Tin	118-1	12860220	12939531	12982178	12927310	0.48	cps
Titanium	47-1	23993007	23881974	24159690	24011557	0.58	cps
Uranium	238-1	49720909	50274759	49871843	49955837	0.57	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:38:40	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2495628	2525096	2514146	2511623	0.59	cps
Ytterbium	172-1	240	313	240	264	16.01	cps
Ytterbium	172-2	117	120	143	127	11.47	cps
Ytterbium	176-1	72477	71877	72025	72127	0.43	cps
Ytterbium	176-2	23705	23758	23514	23659	0.54	cps
Yttrium	89-1	25484997	25101370	25515735	25367368	0.91	cps
Yttrium	89-2	1775820	1759059	1807029	1780636	1.37	cps
Zinc	66-2	4531976	4469036	4547241	4516085	0.92	cps
Zirconium	90-1	27373209	27340005	27587779	27433664	0.49	cps
Zirconium	91-1	6008884	6078409	6152200	6079831	1.18	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5887049	5844330	5940475	5890618	0.82	cps
Antimony	121-1	9257	8663	8226	8715	5.94	cps
Arsenic	75-2	97	100	97	98	1.97	cps
Barium	135-1	7646	6928	6368	6981	9.17	cps
Barium	137-1	13664	12486	11522	12557	8.54	cps
Beryllium	9-1	1422	1166	1096	1228	13.98	cps
Bismuth	209-1	8808521	8641610	8614932	8688355	1.21	cps
Bismuth	209-2	3307098	3325153	3362073	3331441	0.84	cps
Bromine	81-1	7225	7375	7836	7479	4.25	cps
Cadmium	108-1	170	173	133	159	13.97	cps
Cadmium	106-1	7339	6908	7392	7213	3.68	cps
Cadmium	111-1	2242	2127	2165	2178	2.69	cps
Calcium	43-1	24381195	24017029	23782946	24060390	1.25	cps
Calcium	44-1	391673714	385491608	382555368	386573563	1.20	cps
Carbon	12-1	4857258	5864106	6346729	5689365	13.36	cps
Carbon	12-2	54711	55190	54808	54903	0.46	cps
Chlorine	35-1	79832	78183	77938	78651	1.31	cps
Chlorine	35-2	330	323	353	336	4.69	cps
Chromium	52-2	7517	6988	7073	7193	3.95	cps
Cobalt	59-2	10257	9954	9810	10007	2.28	cps
Copper	63-2	9843	9847	9216	9636	3.77	cps
Dysprosium	156-1	587	513	550	550	6.67	cps
Dysprosium	156-2	187	160	187	178	8.66	cps
Erbium	164-1	540	657	567	588	10.40	cps
Erbium	164-2	227	173	197	199	13.44	cps
Gadolinium	160-1	507	527	560	531	5.07	cps
Gadolinium	160-2	140	217	210	189	22.48	cps
Holmium	165-1	16538586	16272701	15933516	16248268	1.87	cps
Holmium	165-2	5477903	5474892	5435788	5462861	0.43	cps
Indium	115-1	11726928	11422697	11410892	11520172	1.56	cps
Indium	115-2	1118608	1112629	1112369	1114535	0.32	cps
Iron	54-2	26771473	26893895	26839156	26834841	0.23	cps
Iron	56-2	500501073	495037633	489874886	495137864	1.07	cps
Iron	57-2	12536245	12554542	12394518	12495102	0.70	cps
Krypton	83-1	373	300	330	334	11.02	cps
Lead	206-1	17675	16951	15726	16784	5.87	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15132	14285	12990	14136	7.63	cps
Lead	208-1	70559	65190	60976	65575	7.32	cps
Lithium	6-1	5617090	5638062	5661693	5638948	0.40	cps
Magnesium	24-2	91140819	90954909	90976499	91024075	0.11	cps
Manganese	55-2	4077	3864	3721	3887	4.62	cps
Molybdenum	94-1	13063	11672	10354	11696	11.58	cps
Molybdenum	95-1	12039	10404	9136	10526	13.82	cps
Molybdenum	96-1	16817	14918	13380	15038	11.45	cps
Molybdenum	97-1	6048	4884	4091	5008	19.66	cps
Molybdenum	98-1	15659	12289	10090	12679	22.12	cps
Neodymium	150-1	357	320	347	341	5.56	cps
Neodymium	150-2	53	47	80	60	29.40	cps
Nickel	60-2	6562	6248	6288	6366	2.68	cps
Phosphorus	31-2	93	133	83	103	25.61	cps
Potassium	39-2	29029172	28679025	28825820	28844672	0.61	cps
Rhodium	103-1	9996295	9960529	9918211	9958345	0.39	cps
Rhodium	103-2	3660344	3679755	3582614	3640904	1.41	cps
Scandium	45-1	8693156	8594057	8440994	8576069	1.48	cps
Scandium	45-2	151246	150060	150569	150625	0.40	cps
Selenium	82-1	43	67	47	52	24.15	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	10	7	7	8	24.71	cps
Silicon	28-1	559839	536925	523506	540090	3.40	cps
Silver	107-1	2787	2344	1997	2376	16.67	cps
Silver	109-1	2747	2207	1767	2240	21.91	cps
Sodium	23-2	193195850	193203650	192878337	193092613	0.10	cps
Strontium	86-1	12806	13026	13046	12959	1.03	cps
Strontium	88-1	112894	110113	108245	110417	2.12	cps
Sulfur	34-1	348333	339024	337577	341644	1.71	cps
Terbium	159-1	16667200	16496755	16420200	16528052	0.76	cps
Terbium	159-2	5231662	5268287	5125273	5208407	1.43	cps
Thallium	203-1	2127	1510	1310	1649	25.82	cps
Thallium	205-1	5024	3684	3007	3905	26.29	cps
Tin	118-1	3784	3050	3094	3309	12.44	cps
Titanium	47-1	7979	7685	7242	7635	4.86	cps
Uranium	238-1	3431	2254	1523	2403	40.05	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:41:27	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	397	350	387	378	6.50	cps
Ytterbium	172-1	823	627	750	733	13.55	cps
Ytterbium	172-2	323	250	243	272	16.31	cps
Ytterbium	176-1	2517	2604	2600	2574	1.91	cps
Ytterbium	176-2	473	500	500	491	3.13	cps
Yttrium	89-1	22498268	22234705	22034741	22255905	1.04	cps
Yttrium	89-2	1633484	1585400	1585738	1601541	1.73	cps
Zinc	66-2	5394	5625	5408	5476	2.36	cps
Zirconium	90-1	14401	13303	12986	13563	5.47	cps
Zirconium	91-1	3264	3027	2837	3043	7.03	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	31384	31424	30716	31175	1.28	cps
Antimony	121-1	2851420	2860020	2935686	2882375	1.61	cps
Arsenic	75-2	52126	51972	52310	52136	0.32	cps
Barium	135-1	360622	365089	366046	363919	0.80	cps
Barium	137-1	631614	638632	642040	637429	0.83	cps
Beryllium	9-1	492397	496847	496935	495393	0.52	cps
Bismuth	209-1	10686739	10980514	10843057	10836770	1.36	cps
Bismuth	209-2	4253993	4329882	4360100	4314658	1.27	cps
Bromine	81-1	6852	6698	6872	6807	1.39	cps
Cadmium	108-1	52359	52155	51904	52139	0.44	cps
Cadmium	106-1	84057	84755	86636	85149	1.57	cps
Cadmium	111-1	351624	358891	358447	356320	1.14	cps
Calcium	43-1	115835	115993	117787	116538	0.93	cps
Calcium	44-1	1901287	1912609	1931435	1915110	0.80	cps
Carbon	12-1	3876502	3906574	3911728	3898268	0.49	cps
Carbon	12-2	26083	25359	25422	25621	1.57	cps
Chlorine	35-1	93040	94955	95465	94487	1.35	cps
Chlorine	35-2	430	450	430	437	2.64	cps
Chromium	52-2	298112	302790	303976	301626	1.03	cps
Cobalt	59-2	562002	569071	566052	565708	0.63	cps
Copper	63-2	440987	442882	442243	442037	0.22	cps
Dysprosium	156-1	37	27	53	39	34.63	cps
Dysprosium	156-2	3	10	10	8	49.52	cps
Erbium	164-1	70	87	93	83	14.43	cps
Erbium	164-2	37	13	13	21	63.83	cps
Gadolinium	160-1	77	63	77	72	10.66	cps
Gadolinium	160-2	23	13	33	23	42.86	cps
Holmium	165-1	17425044	17678643	17576104	17559930	0.73	cps
Holmium	165-2	5903027	6030038	6002682	5978582	1.12	cps
Indium	115-1	13504818	13329444	13682741	13505668	1.31	cps
Indium	115-2	1301248	1314816	1327029	1314364	0.98	cps
Iron	54-2	261408	262641	261115	261721	0.31	cps
Iron	56-2	4815995	4893920	4814593	4841503	0.94	cps
Iron	57-2	116323	116121	117267	116570	0.53	cps
Krypton	83-1	173	177	127	159	17.59	cps
Lead	206-1	2611774	2606313	2592367	2603485	0.38	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2168679	2147486	2153795	2156653	0.50	cps
Lead	208-1	10041152	10156702	10065103	10087652	0.60	cps
Lithium	6-1	7153239	7303575	7021579	7159464	1.97	cps
Magnesium	24-2	253392	254722	253445	253853	0.30	cps
Manganese	55-2	132060	132353	133043	132485	0.38	cps
Molybdenum	94-1	25658511	25523981	25348039	25510177	0.61	cps
Molybdenum	95-1	36618118	36871605	36682880	36724201	0.36	cps
Molybdenum	96-1	39565484	40327769	40447896	40113716	1.19	cps
Molybdenum	97-1	22426361	22682525	22598177	22569021	0.58	cps
Molybdenum	98-1	59520479	59313826	59676402	59503569	0.31	cps
Neodymium	150-1	40	60	60	53	21.65	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	156489	158619	158841	157983	0.82	cps
Phosphorus	31-2	93	77	70	80	15.02	cps
Potassium	39-2	248699	251989	251915	250868	0.75	cps
Rhodium	103-1	12568100	12592083	12560193	12573459	0.13	cps
Rhodium	103-2	4656691	4741755	4784969	4727805	1.38	cps
Scandium	45-1	9860044	9771120	9796818	9809327	0.47	cps
Scandium	45-2	171843	172639	174856	173113	0.90	cps
Selenium	82-1	45688	46511	46621	46273	1.10	cps
Selenium	77-2	720	813	823	786	7.26	cps
Selenium	78-2	2550	2447	2734	2577	5.63	cps
Silicon	28-1	5635854	5635833	5693558	5655082	0.59	cps
Silver	107-1	884922	897094	905464	895826	1.15	cps
Silver	109-1	830786	850982	855487	845752	1.56	cps
Sodium	23-2	877568	878007	880232	878603	0.16	cps
Strontium	86-1	2613588	2640941	2608091	2620874	0.67	cps
Strontium	88-1	22148300	22187065	22415118	22250161	0.65	cps
Sulfur	34-1	373853	374120	374659	374211	0.11	cps
Terbium	159-1	17874116	17833009	17999737	17902287	0.49	cps
Terbium	159-2	5867296	5833025	5947042	5882455	0.99	cps
Thallium	203-1	3182996	3163333	3148380	3164903	0.55	cps
Thallium	205-1	7414166	7406559	7458268	7426331	0.38	cps
Tin	118-1	6575432	6591866	6635630	6600976	0.47	cps
Titanium	47-1	11158571	11317072	11224238	11233294	0.71	cps
Uranium	238-1	23769361	24563215	24211125	24181234	1.64	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P8
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:45:38	DataFile Name :	013ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	225423	226019	225799	225747	0.13	cps
Ytterbium	172-1	77	127	107	103	24.35	cps
Ytterbium	172-2	20	20	47	29	53.30	cps
Ytterbium	176-1	34057	35528	35340	34975	2.29	cps
Ytterbium	176-2	12479	11979	12566	12341	2.57	cps
Yttrium	89-1	24816410	24787429	24722875	24775571	0.19	cps
Yttrium	89-2	1758800	1792392	1799737	1783643	1.22	cps
Zinc	66-2	88822	88661	90751	89411	1.30	cps
Zirconium	90-1	13416386	13368609	13198326	13327773	0.86	cps
Zirconium	91-1	2983753	2994788	2997196	2991912	0.24	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	73	80	63	72	11.62	cps
Antimony	121-1	183	177	150	170	10.38	cps
Arsenic	75-2	0	3	0	1	173.21	cps
Barium	135-1	503	430	443	459	8.51	cps
Barium	137-1	730	767	733	743	2.73	cps
Beryllium	9-1	479	456	480	472	2.83	cps
Bismuth	209-1	11076987	11311267	10982644	11123633	1.52	cps
Bismuth	209-2	4253205	4231345	4284132	4256227	0.62	cps
Bromine	81-1	6838	6688	6738	6755	1.13	cps
Cadmium	108-1	17	23	43	28	49.95	cps
Cadmium	106-1	8173	8279	8092	8181	1.15	cps
Cadmium	111-1	1660	1676	1615	1650	1.92	cps
Calcium	43-1	1137	1113	1063	1104	3.39	cps
Calcium	44-1	19073	19720	19767	19520	1.99	cps
Carbon	12-1	3262000	3266518	3250057	3259525	0.26	cps
Carbon	12-2	21936	21796	22471	22068	1.61	cps
Chlorine	35-1	84894	85829	87331	86018	1.43	cps
Chlorine	35-2	340	330	350	340	2.94	cps
Chromium	52-2	663	597	837	699	17.73	cps
Cobalt	59-2	113	127	133	124	8.18	cps
Copper	63-2	3300	3174	3144	3206	2.59	cps
Dysprosium	156-1	47	43	67	52	24.17	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	83	87	77	82	6.19	cps
Erbium	164-2	20	20	30	23	24.74	cps
Gadolinium	160-1	103	113	60	92	30.74	cps
Gadolinium	160-2	27	13	37	26	45.82	cps
Holmium	165-1	17451619	18274144	17578272	17768012	2.49	cps
Holmium	165-2	5963263	5847077	5964815	5925052	1.14	cps
Indium	115-1	13711873	14051759	13853656	13872429	1.23	cps
Indium	115-2	1298204	1280632	1314662	1297832	1.31	cps
Iron	54-2	397	313	350	353	11.82	cps
Iron	56-2	4594	4551	5078	4741	6.17	cps
Iron	57-2	130	97	80	102	24.90	cps
Krypton	83-1	213	147	147	169	22.79	cps
Lead	206-1	2067	1944	1833	1948	5.99	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1693	1650	1647	1663	1.57	cps
Lead	208-1	7871	7428	7691	7663	2.91	cps
Lithium	6-1	7543617	7452158	7449935	7481903	0.71	cps
Magnesium	24-2	373	423	367	388	7.99	cps
Manganese	55-2	153	190	187	177	11.47	cps
Molybdenum	94-1	383	413	450	416	8.04	cps
Molybdenum	95-1	263	250	293	269	8.25	cps
Molybdenum	96-1	290	300	310	300	3.33	cps
Molybdenum	97-1	150	147	123	140	10.38	cps
Molybdenum	98-1	350	297	340	329	8.62	cps
Neodymium	150-1	37	30	27	31	16.37	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1117	1020	1250	1129	10.23	cps
Phosphorus	31-2	73	67	63	68	7.51	cps
Potassium	39-2	8833	8249	8202	8428	4.17	cps
Rhodium	103-1	12854767	12999309	12916480	12923519	0.56	cps
Rhodium	103-2	4727123	4594889	4674947	4665653	1.43	cps
Scandium	45-1	9928604	10114311	9841280	9961398	1.40	cps
Scandium	45-2	169850	167878	169567	169098	0.63	cps
Selenium	82-1	-77	17	-13	-24	-194.95	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	0	7	9	114.55	cps
Silicon	28-1	426117	425655	426359	426044	0.08	cps
Silver	107-1	400	293	353	349	15.33	cps
Silver	109-1	250	237	250	246	3.14	cps
Sodium	23-2	26838	25906	26194	26313	1.81	cps
Strontium	86-1	317	277	340	311	10.30	cps
Strontium	88-1	587	533	520	547	6.45	cps
Sulfur	34-1	429754	427661	429112	428843	0.25	cps
Terbium	159-1	18212358	18536875	18159521	18302918	1.12	cps
Terbium	159-2	5747732	5657164	5826839	5743912	1.48	cps
Thallium	203-1	467	453	383	434	10.30	cps
Thallium	205-1	1083	1080	1010	1058	3.92	cps
Tin	118-1	1720	1597	1717	1678	4.19	cps
Titanium	47-1	140	173	170	161	11.40	cps
Uranium	238-1	60	57	67	61	8.33	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P8
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 13:59:01	DataFile Name :	017CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	13	7	10	33.30	cps
Ytterbium	172-1	127	97	97	107	16.24	cps
Ytterbium	172-2	20	37	47	34	39.11	cps
Ytterbium	176-1	2350	2534	2497	2460	3.94	cps
Ytterbium	176-2	277	363	340	327	13.73	cps
Yttrium	89-1	25064907	25556195	24819255	25146786	1.49	cps
Yttrium	89-2	1791809	1700944	1780626	1757793	2.82	cps
Zinc	66-2	453	357	470	427	14.34	cps
Zirconium	90-1	933	950	960	948	1.42	cps
Zirconium	91-1	170	163	193	176	8.97	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6275677	6031118	6157123	6154640	1.99	cps
Antimony	121-1	15843	15576	15529	15649	1.08	cps
Arsenic	75-2	97	70	83	83	16.00	cps
Barium	135-1	5771	5721	5378	5623	3.81	cps
Barium	137-1	9630	9620	9874	9708	1.48	cps
Beryllium	9-1	1755	1732	1646	1711	3.35	cps
Bismuth	209-1	10084257	10128897	10058575	10090576	0.35	cps
Bismuth	209-2	3802859	3854700	3858839	3838799	0.81	cps
Bromine	81-1	8199	8736	9226	8721	5.89	cps
Cadmium	108-1	4801	4751	4351	4634	5.32	cps
Cadmium	106-1	7922	7572	7382	7626	3.59	cps
Cadmium	111-1	3845	3723	3772	3780	1.62	cps
Calcium	43-1	5431716	5466036	5548715	5482155	1.10	cps
Calcium	44-1	87632769	88956719	88933049	88507512	0.86	cps
Carbon	12-1	41395559	42150799	42487070	42011143	1.33	cps
Carbon	12-2	290979	284050	289331	288120	1.26	cps
Chlorine	35-1	69578497	74167002	75741306	73162268	4.38	cps
Chlorine	35-2	303880	305509	307418	305602	0.58	cps
Chromium	52-2	59121	59748	59975	59615	0.74	cps
Cobalt	59-2	6448	6448	6381	6426	0.60	cps
Copper	63-2	35057	35277	35180	35171	0.31	cps
Dysprosium	156-1	90	137	73	100	32.83	cps
Dysprosium	156-2	30	30	7	22	60.61	cps
Erbium	164-1	170	133	117	140	19.49	cps
Erbium	164-2	33	43	37	38	13.48	cps
Gadolinium	160-1	123	140	120	128	8.39	cps
Gadolinium	160-2	53	53	47	51	7.52	cps
Holmium	165-1	17958468	17978010	17753558	17896679	0.69	cps
Holmium	165-2	5915921	5980128	5885516	5927188	0.81	cps
Indium	115-1	13261834	13087981	13067648	13139154	0.81	cps
Indium	115-2	1240547	1263820	1233423	1245930	1.28	cps
Iron	54-2	12812356	12816350	12944129	12857612	0.58	cps
Iron	56-2	239504363	237617943	236888036	238003448	0.57	cps
Iron	57-2	6055363	5972954	6135102	6054473	1.34	cps
Krypton	83-1	217	167	197	193	13.02	cps
Lead	206-1	55726	54239	55167	55044	1.36	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	42831	43419	44295	43515	1.69	cps
Lead	208-1	205614	205920	206672	206069	0.26	cps
Lithium	6-1	6759032	6668908	6565533	6664491	1.45	cps
Magnesium	24-2	21879845	21339967	21531911	21583907	1.27	cps
Manganese	55-2	9757	9803	10371	9977	3.42	cps
Molybdenum	94-1	8612088	8678213	8706261	8665520	0.56	cps
Molybdenum	95-1	15352463	15276085	15368085	15332211	0.32	cps
Molybdenum	96-1	16337264	16380527	16611165	16442985	0.90	cps
Molybdenum	97-1	9446825	9343365	9548156	9446116	1.08	cps
Molybdenum	98-1	24620887	24363580	24811475	24598647	0.91	cps
Neodymium	150-1	93	113	127	111	15.10	cps
Neodymium	150-2	13	13	20	16	24.76	cps
Nickel	60-2	9110	8903	9246	9086	1.90	cps
Phosphorus	31-2	292195	288868	295642	292235	1.16	cps
Potassium	39-2	13010568	12830198	12979690	12940152	0.75	cps
Rhodium	103-1	11971060	11808079	11872346	11883829	0.69	cps
Rhodium	103-2	4314371	4446885	4324050	4361769	1.69	cps
Scandium	45-1	9787120	9693368	9805084	9761857	0.61	cps
Scandium	45-2	171520	173929	169861	171770	1.19	cps
Selenium	82-1	-23	110	63	50	135.31	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	17	3	10	10	66.70	cps
Silicon	28-1	706080	704875	710376	707110	0.41	cps
Silver	107-1	1337	1163	1293	1265	7.13	cps
Silver	109-1	1200	1060	1057	1106	7.40	cps
Sodium	23-2	45459394	44370879	44942441	44924238	1.21	cps
Strontium	86-1	168277	170927	168778	169327	0.83	cps
Strontium	88-1	1563311	1560821	1554331	1559488	0.30	cps
Sulfur	34-1	7484968	7480324	7507732	7491008	0.20	cps
Terbium	159-1	18143890	17816363	18096619	18018958	0.98	cps
Terbium	159-2	5747567	5810324	5632182	5730024	1.58	cps
Thallium	203-1	2014	2267	2344	2208	7.82	cps
Thallium	205-1	4601	5301	5254	5052	7.75	cps
Tin	118-1	3737	3524	3694	3652	3.09	cps
Titanium	47-1	4860458	4915349	4913855	4896554	0.64	cps
Uranium	238-1	807	850	807	821	3.05	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P8
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:02:26	DataFile Name :	018ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	250	343	317	303	15.85	cps
Ytterbium	172-1	83	117	110	103	17.07	cps
Ytterbium	172-2	43	40	37	40	8.32	cps
Ytterbium	176-1	2194	2290	2354	2279	3.54	cps
Ytterbium	176-2	313	353	350	339	6.55	cps
Yttrium	89-1	25457728	25237454	24737957	25144380	1.47	cps
Yttrium	89-2	1745158	1747417	1739376	1743983	0.24	cps
Zinc	66-2	5104	5234	5138	5159	1.31	cps
Zirconium	90-1	1157	1170	1253	1193	4.39	cps
Zirconium	91-1	207	283	283	258	17.17	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6524082	6597778	6527983	6549948	0.63	cps
Antimony	121-1	305512	307883	310109	307835	0.75	cps
Arsenic	75-2	5508	5591	5615	5571	1.01	cps
Barium	135-1	81399	83656	84391	83148	1.87	cps
Barium	137-1	145806	147298	148106	147070	0.79	cps
Beryllium	9-1	102507	103058	101700	102422	0.67	cps
Bismuth	209-1	10386886	10601290	10586553	10524910	1.14	cps
Bismuth	209-2	3929682	3882631	3937961	3916758	0.76	cps
Bromine	81-1	8746	9540	9560	9282	5.00	cps
Cadmium	108-1	9613	9443	9800	9619	1.86	cps
Cadmium	106-1	14371	13680	14861	14304	4.15	cps
Cadmium	111-1	73564	76137	74819	74840	1.72	cps
Calcium	43-1	5772194	5728473	5861591	5787419	1.17	cps
Calcium	44-1	92608859	93029592	93554675	93064375	0.51	cps
Carbon	12-1	43561598	45012541	44943866	44506002	1.84	cps
Carbon	12-2	309931	306848	311936	309572	0.83	cps
Chlorine	35-1	78085391	80988909	83227667	80767322	3.19	cps
Chlorine	35-2	330729	329606	329513	329949	0.21	cps
Chromium	52-2	125932	126416	125525	125957	0.35	cps
Cobalt	59-2	122448	122020	123201	122556	0.49	cps
Copper	63-2	123326	124601	124732	124219	0.62	cps
Dysprosium	156-1	77	63	97	79	21.27	cps
Dysprosium	156-2	33	17	23	24	34.31	cps
Erbium	164-1	117	147	170	144	18.51	cps
Erbium	164-2	43	47	43	44	4.34	cps
Gadolinium	160-1	133	97	130	120	16.90	cps
Gadolinium	160-2	47	30	33	37	24.06	cps
Holmium	165-1	18267790	18842538	18718108	18609479	1.62	cps
Holmium	165-2	6084086	6061828	6001499	6049138	0.71	cps
Indium	115-1	13626951	13965294	13753375	13781873	1.24	cps
Indium	115-2	1312671	1296032	1294110	1300938	0.78	cps
Iron	54-2	13712402	13651421	13421314	13595045	1.13	cps
Iron	56-2	252229896	251222036	248958430	250803454	0.67	cps
Iron	57-2	6327327	6286049	6294723	6302700	0.35	cps
Krypton	83-1	190	180	197	189	4.44	cps
Lead	206-1	297029	302046	300454	299843	0.85	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	249007	252293	253275	251525	0.89	cps
Lead	208-1	1153136	1172845	1178622	1168201	1.14	cps
Lithium	6-1	6751249	6842406	6779158	6790937	0.69	cps
Magnesium	24-2	23122055	22782903	23160990	23021983	0.90	cps
Manganese	55-2	38094	37429	37563	37695	0.93	cps
Molybdenum	94-1	8999263	9122180	9109401	9076948	0.74	cps
Molybdenum	95-1	15839503	16321031	16074967	16078500	1.50	cps
Molybdenum	96-1	16904920	17464070	17162716	17177235	1.63	cps
Molybdenum	97-1	9737394	9973926	9955155	9888825	1.33	cps
Molybdenum	98-1	25567890	25661906	25789438	25673078	0.43	cps
Neodymium	150-1	100	93	103	99	5.15	cps
Neodymium	150-2	37	20	10	22	60.63	cps
Nickel	60-2	40835	40708	40023	40522	1.08	cps
Phosphorus	31-2	311604	308937	307763	309435	0.64	cps
Potassium	39-2	13643334	13462718	13802249	13636100	1.25	cps
Rhodium	103-1	12070590	12439008	12396221	12301940	1.64	cps
Rhodium	103-2	4518997	4478145	4491640	4496261	0.46	cps
Scandium	45-1	10166197	10351919	10397742	10305286	1.19	cps
Scandium	45-2	182718	179765	182138	181541	0.86	cps
Selenium	82-1	4898	5101	5028	5009	2.06	cps
Selenium	77-2	83	90	57	77	23.00	cps
Selenium	78-2	293	303	263	287	7.26	cps
Silicon	28-1	753958	763076	764688	760574	0.76	cps
Silver	107-1	351448	361660	362656	358588	1.73	cps
Silver	109-1	345597	347391	349144	347377	0.51	cps
Sodium	23-2	48237818	47939136	47505129	47894028	0.77	cps
Strontium	86-1	175183	178993	177140	177105	1.08	cps
Strontium	88-1	1633845	1645594	1626540	1635326	0.59	cps
Sulfur	34-1	7803747	7852584	7790839	7815723	0.42	cps
Terbium	159-1	18674537	19239128	19152943	19022203	1.60	cps
Terbium	159-2	5887570	5908428	5914688	5903562	0.24	cps
Thallium	203-1	299781	306191	306213	304062	1.22	cps
Thallium	205-1	719525	737159	739561	732082	1.49	cps
Tin	118-1	3050	3794	3774	3540	11.97	cps
Titanium	47-1	5196726	5153422	5193906	5181352	0.47	cps
Uranium	238-1	893	863	857	871	2.24	cps

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LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P8
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:07:31	DataFile Name :	019ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	49753	49121	49161	49345	0.72	cps
Ytterbium	172-1	130	120	127	126	4.06	cps
Ytterbium	172-2	10	53	43	36	63.81	cps
Ytterbium	176-1	2407	2477	2130	2338	7.84	cps
Ytterbium	176-2	397	343	433	391	11.57	cps
Yttrium	89-1	25880598	26311459	26011564	26067874	0.85	cps
Yttrium	89-2	1835927	1830752	1848388	1838356	0.49	cps
Zinc	66-2	14588	14254	14284	14375	1.28	cps
Zirconium	90-1	1180	1250	1313	1248	5.35	cps
Zirconium	91-1	287	317	250	284	11.74	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3385887	3388456	3401450	3391931	0.25	cps
Antimony	121-1	7426237	7544374	7548763	7506458	0.93	cps
Arsenic	75-2	130928	129993	131369	130763	0.54	cps
Barium	135-1	9790105	9818412	9774778	9794431	0.23	cps
Barium	137-1	17075176	16934354	16934834	16981454	0.48	cps
Beryllium	9-1	2472808	2500365	2522864	2498679	1.00	cps
Bismuth	209-1	9811688	10043467	9832894	9896016	1.29	cps
Bismuth	209-2	3659754	3683526	3709722	3684334	0.68	cps
Bromine	81-1	7959	8386	7589	7978	5.00	cps
Cadmium	108-1	145324	146883	144902	145703	0.72	cps
Cadmium	106-1	209976	213766	212299	212014	0.90	cps
Cadmium	111-1	1816077	1802805	1815091	1811324	0.41	cps
Calcium	43-1	14392379	14350809	14272936	14338708	0.42	cps
Calcium	44-1	229877083	230122983	230716863	230238977	0.19	cps
Carbon	12-1	3639935	3815646	3828655	3761412	2.80	cps
Carbon	12-2	31434	31918	31404	31585	0.91	cps
Chlorine	35-1	3415885	3184626	2977683	3192731	6.87	cps
Chlorine	35-2	9807	9226	8886	9306	5.00	cps
Chromium	52-2	1626059	1634443	1653036	1637846	0.84	cps
Cobalt	59-2	2940203	2903102	2914880	2919395	0.65	cps
Copper	63-2	20644108	20689250	20636793	20656717	0.14	cps
Dysprosium	156-1	427	520	513	487	10.70	cps
Dysprosium	156-2	123	103	100	109	11.59	cps
Erbium	164-1	450	407	490	449	9.29	cps
Erbium	164-2	133	140	113	129	10.77	cps
Gadolinium	160-1	393	403	377	391	3.44	cps
Gadolinium	160-2	113	107	123	114	7.33	cps
Holmium	165-1	18174398	18023815	17892038	18030084	0.78	cps
Holmium	165-2	5819388	5796908	5931104	5849133	1.23	cps
Indium	115-1	13373983	13075957	13090822	13180254	1.27	cps
Indium	115-2	1200727	1226724	1238171	1221874	1.57	cps
Iron	54-2	16194555	16111371	16150403	16152110	0.26	cps
Iron	56-2	296967309	294393269	293410256	294923611	0.62	cps
Iron	57-2	7534634	7425237	7439849	7466573	0.80	cps
Krypton	83-1	240	377	233	283	28.55	cps
Lead	206-1	29812535	30206856	29744153	29921182	0.83	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25655659	26067877	25770150	25831229	0.82	cps
Lead	208-1	118093995	120513462	118701818	119103092	1.06	cps
Lithium	6-1	6282693	6315287	6327024	6308335	0.36	cps
Magnesium	24-2	57544709	58121192	58141084	57935662	0.58	cps
Manganese	55-2	6828840	6822741	6881039	6844207	0.47	cps
Molybdenum	94-1	27724065	28007863	28062325	27931418	0.65	cps
Molybdenum	95-1	40035428	40008866	40296137	40113477	0.40	cps
Molybdenum	96-1	43095704	43235885	44088266	43473285	1.24	cps
Molybdenum	97-1	24481214	24664390	24684185	24609929	0.45	cps
Molybdenum	98-1	64231224	64118029	64611337	64320197	0.40	cps
Neodymium	150-1	973	863	913	917	6.01	cps
Neodymium	150-2	73	37	47	52	36.29	cps
Nickel	60-2	730787	725351	728160	728099	0.37	cps
Phosphorus	31-2	28912	28535	29717	29055	2.08	cps
Potassium	39-2	16850011	16880457	16745014	16825161	0.42	cps
Rhodium	103-1	11518561	11607785	11521603	11549316	0.44	cps
Rhodium	103-2	4142669	4243520	4242505	4209565	1.38	cps
Scandium	45-1	9973164	10024755	9907538	9968486	0.59	cps
Scandium	45-2	171882	176530	176324	174912	1.50	cps
Selenium	82-1	115009	114163	113853	114341	0.52	cps
Selenium	77-2	1947	1883	1797	1876	4.02	cps
Selenium	78-2	6415	6261	6545	6407	2.21	cps
Silicon	28-1	21787416	21992123	21850300	21876613	0.48	cps
Silver	107-1	9309861	9554822	9392971	9419218	1.32	cps
Silver	109-1	8924514	8960021	8845305	8909947	0.66	cps
Sodium	23-2	116537385	114613465	114543195	115231348	0.98	cps
Strontium	86-1	2832245	2791540	2799130	2807638	0.77	cps
Strontium	88-1	23569585	24090874	24030950	23897136	1.19	cps
Sulfur	34-1	1172150	1159554	1149144	1160282	0.99	cps
Terbium	159-1	18433738	18468226	18416929	18439631	0.14	cps
Terbium	159-2	5586688	5632054	5734392	5651045	1.34	cps
Thallium	203-1	7782681	7650433	7700412	7711176	0.87	cps
Thallium	205-1	18159848	18384891	18350671	18298470	0.66	cps
Tin	118-1	6471239	6523859	6501640	6498913	0.41	cps
Titanium	47-1	12163646	12254219	12237118	12218328	0.39	cps
Uranium	238-1	24490691	25135815	24871255	24832587	1.31	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:10:38	DataFile Name :	020CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1212604	1206672	1213537	1210938	0.31	cps
Ytterbium	172-1	487	433	487	469	6.57	cps
Ytterbium	172-2	170	137	157	154	10.86	cps
Ytterbium	176-1	37964	37366	38519	37950	1.52	cps
Ytterbium	176-2	12516	11448	11872	11946	4.50	cps
Yttrium	89-1	25077358	25131239	25381677	25196758	0.64	cps
Yttrium	89-2	1740529	1740704	1774515	1751916	1.12	cps
Zinc	66-2	2227982	2199771	2216640	2214797	0.64	cps
Zirconium	90-1	13733232	13911443	14060339	13901671	1.18	cps
Zirconium	91-1	3044520	3139897	3138814	3107744	1.76	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	233	177	150	187	22.80	cps
Antimony	121-1	1293	1323	1190	1269	5.51	cps
Arsenic	75-2	13	10	13	12	15.73	cps
Barium	135-1	957	883	913	918	4.02	cps
Barium	137-1	1680	1567	1563	1603	4.14	cps
Beryllium	9-1	776	776	795	782	1.38	cps
Bismuth	209-1	11588254	11396677	11662289	11549073	1.19	cps
Bismuth	209-2	4353536	4280190	4325723	4319816	0.86	cps
Bromine	81-1	7896	7602	7746	7748	1.89	cps
Cadmium	108-1	53	23	40	39	38.65	cps
Cadmium	106-1	8613	8306	8566	8495	1.95	cps
Cadmium	111-1	1882	1792	1849	1841	2.48	cps
Calcium	43-1	1857	1573	1583	1671	9.62	cps
Calcium	44-1	28672	28181	28034	28296	1.18	cps
Carbon	12-1	3374956	3411166	3396076	3394066	0.54	cps
Carbon	12-2	22881	22951	22143	22659	1.98	cps
Chlorine	35-1	1488422	1413854	1292929	1398402	7.06	cps
Chlorine	35-2	4531	4224	4174	4310	4.48	cps
Chromium	52-2	567	540	610	572	6.17	cps
Cobalt	59-2	207	173	157	179	14.23	cps
Copper	63-2	4541	3881	3977	4133	8.63	cps
Dysprosium	156-1	33	37	17	29	37.08	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	73	97	97	89	15.16	cps
Erbium	164-2	27	20	20	22	17.33	cps
Gadolinium	160-1	63	77	80	73	12.03	cps
Gadolinium	160-2	13	10	20	14	35.26	cps
Holmium	165-1	18564421	18731974	18531490	18609295	0.58	cps
Holmium	165-2	6026547	6071913	6039126	6045862	0.39	cps
Indium	115-1	14640298	14561938	14781262	14661166	0.76	cps
Indium	115-2	1350579	1357558	1352478	1353539	0.27	cps
Iron	54-2	927	623	627	726	24.01	cps
Iron	56-2	16934	10230	8920	12028	35.74	cps
Iron	57-2	457	310	213	327	37.51	cps
Krypton	83-1	190	210	207	202	5.30	cps
Lead	206-1	3767	3347	3410	3508	6.46	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3304	3167	2840	3104	7.67	cps
Lead	208-1	14943	14080	13873	14299	3.97	cps
Lithium	6-1	7434546	7273704	7608357	7438869	2.25	cps
Magnesium	24-2	2827	1460	1110	1799	50.43	cps
Manganese	55-2	363	257	280	300	18.69	cps
Molybdenum	94-1	1900	1620	1713	1745	8.17	cps
Molybdenum	95-1	2304	1997	2030	2110	7.98	cps
Molybdenum	96-1	2314	2104	2220	2212	4.76	cps
Molybdenum	97-1	1397	1213	1083	1231	12.79	cps
Molybdenum	98-1	3404	3194	3194	3264	3.72	cps
Neodymium	150-1	27	27	47	33	34.64	cps
Neodymium	150-2	0	7	7	4	86.60	cps
Nickel	60-2	1300	1027	1220	1182	11.89	cps
Phosphorus	31-2	60	63	77	67	13.23	cps
Potassium	39-2	11181	10981	10764	10975	1.90	cps
Rhodium	103-1	13681646	13754950	13989968	13808855	1.17	cps
Rhodium	103-2	4976328	4907559	4984956	4956281	0.86	cps
Scandium	45-1	10594467	10649567	10882810	10708948	1.43	cps
Scandium	45-2	179459	181879	179977	180438	0.71	cps
Selenium	82-1	-3	-30	-20	-18	-75.79	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	13	13	11	34.61	cps
Silicon	28-1	452345	448214	444063	448207	0.92	cps
Silver	107-1	1287	1270	1153	1237	5.87	cps
Silver	109-1	1097	1070	853	1007	13.26	cps
Sodium	23-2	41649	38026	37398	39024	5.88	cps
Strontium	86-1	357	350	383	363	4.85	cps
Strontium	88-1	1173	1090	1153	1139	3.82	cps
Sulfur	34-1	426215	427575	428541	427444	0.27	cps
Terbium	159-1	18914538	18863858	19335066	19037821	1.36	cps
Terbium	159-2	5905454	5946349	5891914	5914572	0.48	cps
Thallium	203-1	1640	1473	1470	1528	6.36	cps
Thallium	205-1	3704	3701	3464	3623	3.80	cps
Tin	118-1	2317	2030	2060	2136	7.38	cps
Titanium	47-1	687	617	653	652	5.37	cps
Uranium	238-1	843	747	770	787	6.41	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:13:41	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	30	10	32	72.66	cps
Ytterbium	172-1	83	90	133	102	26.56	cps
Ytterbium	172-2	27	27	27	27	0.00	cps
Ytterbium	176-1	2437	2430	2454	2440	0.49	cps
Ytterbium	176-2	297	353	350	333	9.54	cps
Yttrium	89-1	26763324	26655365	26941643	26786777	0.54	cps
Yttrium	89-2	1834594	1873950	1848136	1852227	1.08	cps
Zinc	66-2	563	587	527	559	5.41	cps
Zirconium	90-1	1740	1520	1567	1609	7.21	cps
Zirconium	91-1	357	297	350	334	9.83	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	630	650	767	682	10.82	cps
Antimony	121-1	6312	6522	6275	6369	2.09	cps
Arsenic	75-2	130	153	130	138	9.78	cps
Barium	135-1	8243	8573	8616	8477	2.41	cps
Barium	137-1	15305	15132	14822	15086	1.62	cps
Beryllium	9-1	2666	2721	2712	2700	1.09	cps
Bismuth	209-1	11564155	11451168	11448002	11487775	0.58	cps
Bismuth	209-2	4352136	4360612	4262647	4325132	1.25	cps
Bromine	81-1	7379	7369	7552	7433	1.39	cps
Cadmium	108-1	153	140	133	142	7.16	cps
Cadmium	106-1	8830	8813	8499	8714	2.13	cps
Cadmium	111-1	3352	3228	3207	3262	2.41	cps
Calcium	43-1	11738	12038	11738	11838	1.46	cps
Calcium	44-1	194314	195088	193516	194306	0.40	cps
Carbon	12-1	3331545	3421217	3435176	3395979	1.66	cps
Carbon	12-2	23536	23112	23756	23468	1.40	cps
Chlorine	35-1	538965	526540	509091	524865	2.86	cps
Chlorine	35-2	1840	1783	1610	1745	6.87	cps
Chromium	52-2	2404	2784	2424	2537	8.43	cps
Cobalt	59-2	2530	2557	2500	2529	1.12	cps
Copper	63-2	7305	7846	7756	7635	3.79	cps
Dysprosium	156-1	63	50	40	51	22.90	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	110	83	137	110	24.25	cps
Erbium	164-2	57	33	47	46	25.70	cps
Gadolinium	160-1	93	70	87	83	14.42	cps
Gadolinium	160-2	20	33	3	19	79.59	cps
Holmium	165-1	18866928	18607856	18446675	18640487	1.14	cps
Holmium	165-2	6056397	6137210	6032735	6075448	0.90	cps
Indium	115-1	14761214	14610377	14430902	14600831	1.13	cps
Indium	115-2	1356895	1359902	1357090	1357962	0.12	cps
Iron	54-2	6622	6462	6365	6483	2.00	cps
Iron	56-2	114794	114908	113958	114553	0.45	cps
Iron	57-2	2824	2834	2704	2787	2.60	cps
Krypton	83-1	170	183	170	174	4.42	cps
Lead	206-1	6902	7095	7592	7197	4.95	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6415	6192	6398	6335	1.97	cps
Lead	208-1	28870	28736	28996	28867	0.45	cps
Lithium	6-1	7724294	7421442	7323993	7489909	2.79	cps
Magnesium	24-2	48243	47490	47775	47836	0.79	cps
Manganese	55-2	1400	1497	1547	1481	5.03	cps
Molybdenum	94-1	6588	6228	6385	6400	2.82	cps
Molybdenum	95-1	3460	3781	3517	3586	4.76	cps
Molybdenum	96-1	4471	4227	4701	4466	5.30	cps
Molybdenum	97-1	2220	2257	2127	2201	3.05	cps
Molybdenum	98-1	5795	5521	5831	5716	2.96	cps
Neodymium	150-1	23	23	27	24	7.89	cps
Neodymium	150-2	13	0	3	6	124.93	cps
Nickel	60-2	1820	1850	2047	1906	6.46	cps
Phosphorus	31-2	97	93	100	97	3.45	cps
Potassium	39-2	25813	25873	25766	25818	0.21	cps
Rhodium	103-1	13844383	13625824	13513416	13661208	1.23	cps
Rhodium	103-2	4950808	4970534	4926585	4949309	0.44	cps
Scandium	45-1	10778223	10590102	10387286	10585204	1.85	cps
Scandium	45-2	178173	180339	182242	180252	1.13	cps
Selenium	82-1	1110	1163	1147	1140	2.39	cps
Selenium	77-2	30	3	47	27	81.98	cps
Selenium	78-2	70	83	93	82	14.24	cps
Silicon	28-1	470687	480116	483691	478165	1.40	cps
Silver	107-1	8713	8806	9013	8844	1.74	cps
Silver	109-1	8059	8169	8586	8271	3.36	cps
Sodium	23-2	121060	120993	119726	120593	0.62	cps
Strontium	86-1	2500	2374	2564	2479	3.90	cps
Strontium	88-1	19400	19661	19574	19545	0.68	cps
Sulfur	34-1	445923	446828	441699	444817	0.62	cps
Terbium	159-1	18918963	19081176	18836768	18945635	0.66	cps
Terbium	159-2	5891968	5961605	5891001	5914858	0.68	cps
Thallium	203-1	7466	7025	7426	7305	3.33	cps
Thallium	205-1	17151	17078	17532	17254	1.41	cps
Tin	118-1	6598	6772	6548	6639	1.77	cps
Titanium	47-1	1153	1213	1283	1217	5.35	cps
Uranium	238-1	20143	20340	20243	20242	0.49	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-01	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-SOIL-01-QT2-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:20:25	DataFile Name :	023SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1123	1013	930	1022	9.49	cps
Ytterbium	172-1	113	97	83	98	15.37	cps
Ytterbium	172-2	63	40	47	50	24.03	cps
Ytterbium	176-1	2520	2497	2574	2530	1.55	cps
Ytterbium	176-2	330	350	410	363	11.46	cps
Yttrium	89-1	26676271	26582556	26710317	26656382	0.25	cps
Yttrium	89-2	1827068	1830322	1832922	1830104	0.16	cps
Zinc	66-2	733	830	730	764	7.43	cps
Zirconium	90-1	12042	12079	11825	11982	1.14	cps
Zirconium	91-1	2597	2704	2854	2718	4.74	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1460	1417	1373	1417	3.06	cps
Antimony	121-1	28827	28967	28082	28626	1.66	cps
Arsenic	75-2	233	277	267	259	8.76	cps
Barium	135-1	37348	37896	37254	37499	0.92	cps
Barium	137-1	65621	66261	65471	65784	0.64	cps
Beryllium	9-1	5648	5648	5657	5651	0.09	cps
Bismuth	209-1	11515157	11431408	11490589	11479051	0.38	cps
Bismuth	209-2	4318312	4299862	4337511	4318561	0.44	cps
Bromine	81-1	7389	7032	7405	7275	2.90	cps
Cadmium	108-1	333	330	327	330	1.01	cps
Cadmium	106-1	8913	8786	8976	8892	1.09	cps
Cadmium	111-1	5196	5297	5587	5360	3.79	cps
Calcium	43-1	28872	28973	28051	28632	1.77	cps
Calcium	44-1	461017	458061	460582	459887	0.35	cps
Carbon	12-1	3166059	3128916	3111076	3135351	0.89	cps
Carbon	12-2	20558	20701	20621	20627	0.35	cps
Chlorine	35-1	370387	360504	352434	361108	2.49	cps
Chlorine	35-2	1373	1237	1287	1299	5.32	cps
Chromium	52-2	6822	6528	6608	6653	2.28	cps
Cobalt	59-2	6085	6161	5801	6016	3.15	cps
Copper	63-2	12302	11855	12329	12162	2.19	cps
Dysprosium	156-1	33	53	57	48	26.42	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	67	73	123	88	35.29	cps
Erbium	164-2	37	43	20	33	36.05	cps
Gadolinium	160-1	57	73	87	72	20.81	cps
Gadolinium	160-2	10	20	17	16	32.73	cps
Holmium	165-1	18784281	18362889	18314054	18487075	1.40	cps
Holmium	165-2	6118240	6067813	6082331	6089461	0.43	cps
Indium	115-1	14697448	14619609	14463948	14593668	0.81	cps
Indium	115-2	1347945	1342056	1344855	1344952	0.22	cps
Iron	54-2	7215	6962	7062	7080	1.80	cps
Iron	56-2	123031	122833	125083	123649	1.01	cps
Iron	57-2	3090	3007	3320	3139	5.17	cps
Krypton	83-1	177	197	143	172	15.64	cps
Lead	206-1	13724	13761	13711	13732	0.19	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11936	11555	11665	11719	1.67	cps
Lead	208-1	54522	54041	54318	54294	0.44	cps
Lithium	6-1	7567009	7630507	7351037	7516184	1.95	cps
Magnesium	24-2	116091	115258	116027	115792	0.40	cps
Manganese	55-2	1603	1460	1587	1550	5.06	cps
Molybdenum	94-1	30727	30714	31492	30978	1.44	cps
Molybdenum	95-1	37119	37644	37574	37446	0.76	cps
Molybdenum	96-1	42064	42164	40987	41738	1.56	cps
Molybdenum	97-1	22876	23216	22642	22911	1.26	cps
Molybdenum	98-1	60317	60146	60247	60237	0.14	cps
Neodymium	150-1	23	20	37	27	33.08	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	2730	2830	2794	2785	1.82	cps
Phosphorus	31-2	200	180	137	172	18.80	cps
Potassium	39-2	71794	71821	72377	71997	0.46	cps
Rhodium	103-1	13818888	13598887	13471411	13629729	1.29	cps
Rhodium	103-2	4930085	4910622	4827676	4889461	1.11	cps
Scandium	45-1	10570916	10552797	10384788	10502834	0.98	cps
Scandium	45-2	181503	179624	179205	180111	0.68	cps
Selenium	82-1	1230	1270	1243	1248	1.63	cps
Selenium	77-2	27	10	10	16	61.87	cps
Selenium	78-2	80	73	87	80	8.34	cps
Silicon	28-1	519772	520386	519488	519882	0.09	cps
Silver	107-1	18362	19287	19447	19032	3.08	cps
Silver	109-1	17815	17955	18479	18083	1.94	cps
Sodium	23-2	251323	251285	251036	251215	0.06	cps
Strontium	86-1	5501	5411	5331	5414	1.57	cps
Strontium	88-1	44454	44049	44417	44307	0.50	cps
Sulfur	34-1	441780	439935	439380	440365	0.29	cps
Terbium	159-1	19237804	19147214	18926415	19103811	0.84	cps
Terbium	159-2	5931677	5914615	5880143	5908812	0.44	cps
Thallium	203-1	15413	15659	15306	15459	1.17	cps
Thallium	205-1	36555	36605	37431	36863	1.33	cps
Tin	118-1	63074	63342	63349	63255	0.25	cps
Titanium	47-1	11818	11968	11812	11866	0.75	cps
Uranium	238-1	45816	46077	45053	45648	1.17	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-02	Instrumnet Name :	P8
Client Sample ID :	LOQ-SOIL-02-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:23:46	DataFile Name :	024LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11978	12265	11581	11942	2.88	cps
Ytterbium	172-1	127	97	137	120	17.35	cps
Ytterbium	172-2	43	33	27	34	24.35	cps
Ytterbium	176-1	2370	2370	2207	2316	4.07	cps
Ytterbium	176-2	420	370	373	388	7.21	cps
Yttrium	89-1	26541487	26536885	26486177	26521516	0.12	cps
Yttrium	89-2	1809006	1814117	1787131	1803418	0.79	cps
Zinc	66-2	2667	2680	2767	2705	2.01	cps
Zirconium	90-1	26061	27250	26883	26731	2.28	cps
Zirconium	91-1	6025	5725	6025	5925	2.92	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1300	1497	1357	1385	7.31	cps
Antimony	121-1	28126	28643	29405	28725	2.24	cps
Arsenic	75-2	297	293	287	292	1.74	cps
Barium	135-1	37502	37455	37445	37467	0.08	cps
Barium	137-1	64905	65799	65843	65515	0.81	cps
Beryllium	9-1	5797	5562	5685	5681	2.07	cps
Bismuth	209-1	11450581	11381824	11277397	11369934	0.77	cps
Bismuth	209-2	4526484	4446554	3977817	4316952	6.87	cps
Bromine	81-1	7512	7002	7259	7258	3.52	cps
Cadmium	108-1	303	337	320	320	5.21	cps
Cadmium	106-1	8749	8619	8249	8539	3.04	cps
Cadmium	111-1	5305	5322	5440	5356	1.37	cps
Calcium	43-1	29266	28087	29156	28837	2.26	cps
Calcium	44-1	462787	466390	465233	464803	0.40	cps
Carbon	12-1	3148632	3096052	3090964	3111883	1.03	cps
Carbon	12-2	20731	21032	20374	20712	1.59	cps
Chlorine	35-1	288868	284611	275059	282846	2.50	cps
Chlorine	35-2	1087	1040	973	1033	5.51	cps
Chromium	52-2	6718	6655	6361	6578	2.89	cps
Cobalt	59-2	6185	6285	5561	6010	6.52	cps
Copper	63-2	11955	12516	11545	12005	4.06	cps
Dysprosium	156-1	47	53	67	56	18.33	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Erbium	164-1	90	110	73	91	20.15	cps
Erbium	164-2	17	17	43	26	60.23	cps
Gadolinium	160-1	57	77	83	72	19.22	cps
Gadolinium	160-2	23	7	30	20	60.08	cps
Holmium	165-1	18392422	18264117	18053807	18236782	0.94	cps
Holmium	165-2	6379466	6263741	5599557	6080921	6.92	cps
Indium	115-1	14514560	14593810	14262910	14457093	1.20	cps
Indium	115-2	1522015	1388287	1250668	1386990	9.78	cps
Iron	54-2	6962	7182	6185	6776	7.73	cps
Iron	56-2	124034	126824	114607	121821	5.26	cps
Iron	57-2	3127	3037	2744	2969	6.75	cps
Krypton	83-1	147	167	207	173	17.62	cps
Lead	206-1	13304	13254	13938	13498	2.82	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11919	12076	11805	11933	1.14	cps
Lead	208-1	54579	55177	54241	54666	0.87	cps
Lithium	6-1	7516136	7348480	7469571	7444729	1.16	cps
Magnesium	24-2	117126	118053	108380	114520	4.66	cps
Manganese	55-2	1480	1450	1393	1441	3.05	cps
Molybdenum	94-1	31148	31295	31362	31268	0.35	cps
Molybdenum	95-1	37270	37250	37547	37356	0.44	cps
Molybdenum	96-1	41488	41114	41656	41419	0.67	cps
Molybdenum	97-1	23370	23587	23820	23592	0.96	cps
Molybdenum	98-1	59353	60411	60166	59977	0.92	cps
Neodymium	150-1	40	27	43	37	24.04	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	2600	2854	2440	2631	7.92	cps
Phosphorus	31-2	150	150	120	140	12.37	cps
Potassium	39-2	71308	73888	67648	70948	4.42	cps
Rhodium	103-1	13344214	13324680	13241486	13303460	0.41	cps
Rhodium	103-2	5167878	5047914	4482818	4899537	7.47	cps
Scandium	45-1	10704864	10480827	10301506	10495732	1.93	cps
Scandium	45-2	189575	186519	168676	181590	6.22	cps
Selenium	82-1	1170	1260	1097	1176	6.96	cps
Selenium	77-2	20	23	43	29	43.68	cps
Selenium	78-2	77	103	67	82	23.05	cps
Silicon	28-1	514437	510375	519040	514617	0.84	cps
Silver	107-1	19340	18983	18943	19089	1.15	cps
Silver	109-1	17832	17878	18553	18088	2.23	cps
Sodium	23-2	250448	251564	232358	244790	4.40	cps
Strontium	86-1	5334	5458	5508	5433	1.64	cps
Strontium	88-1	44728	44474	45092	44765	0.69	cps
Sulfur	34-1	434677	433544	426032	431417	1.09	cps
Terbium	159-1	19061937	19082735	18418996	18854556	2.00	cps
Terbium	159-2	6320554	6128561	5506449	5985188	7.11	cps
Thallium	203-1	15189	16057	15706	15651	2.79	cps
Thallium	205-1	37003	36575	36642	36740	0.63	cps
Tin	118-1	63566	63680	63952	63733	0.31	cps
Titanium	47-1	11865	12339	12042	12082	1.98	cps
Uranium	238-1	46281	46093	45983	46119	0.33	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-16	Instrumnet Name :	P8
Client Sample ID :	LLOQ-SOIL-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:27:10	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11848	11988	11124	11654	3.98	cps
Ytterbium	172-1	103	90	50	81	34.22	cps
Ytterbium	172-2	43	20	37	33	36.05	cps
Ytterbium	176-1	2500	2497	2604	2534	2.39	cps
Ytterbium	176-2	353	327	313	331	6.15	cps
Yttrium	89-1	26268153	26623195	25971071	26287473	1.24	cps
Yttrium	89-2	1917523	1879498	1688591	1828537	6.71	cps
Zinc	66-2	2844	2647	2530	2674	5.92	cps
Zirconium	90-1	26442	27066	26682	26730	1.18	cps
Zirconium	91-1	5865	5755	5911	5844	1.38	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1310	1400	1237	1316	6.22	cps
Antimony	121-1	29081	28633	28804	28839	0.78	cps
Arsenic	75-2	267	270	333	290	12.95	cps
Barium	135-1	37522	37796	38377	37898	1.15	cps
Barium	137-1	66167	65929	66101	66066	0.19	cps
Beryllium	9-1	5624	5603	5740	5656	1.31	cps
Bismuth	209-1	11679527	11543790	11609987	11611101	0.58	cps
Bismuth	209-2	4334751	4456173	4321899	4370941	1.70	cps
Bromine	81-1	7145	7309	7189	7214	1.17	cps
Cadmium	108-1	363	363	317	348	7.75	cps
Cadmium	106-1	8826	8830	9036	8897	1.35	cps
Cadmium	111-1	5381	5579	5460	5473	1.82	cps
Calcium	43-1	29059	29043	29069	29057	0.05	cps
Calcium	44-1	464089	472852	469502	468814	0.94	cps
Carbon	12-1	3116709	3124448	3062833	3101330	1.08	cps
Carbon	12-2	20067	20408	20264	20246	0.84	cps
Chlorine	35-1	230402	228763	225682	228282	1.05	cps
Chlorine	35-2	957	850	877	894	6.21	cps
Chromium	52-2	7005	6835	6582	6807	3.13	cps
Cobalt	59-2	6008	6321	6158	6162	2.54	cps
Copper	63-2	12923	12923	12856	12900	0.30	cps
Dysprosium	156-1	33	43	57	44	26.35	cps
Dysprosium	156-2	3	10	0	4	114.60	cps
Erbium	164-1	100	107	90	99	8.48	cps
Erbium	164-2	13	23	30	22	37.76	cps
Gadolinium	160-1	53	93	43	63	41.78	cps
Gadolinium	160-2	13	17	7	12	41.65	cps
Holmium	165-1	18616305	18451157	18561978	18543146	0.45	cps
Holmium	165-2	6146095	6101690	6161408	6136398	0.51	cps
Indium	115-1	14810712	14558147	14664333	14677731	0.86	cps
Indium	115-2	1368771	1374631	1358477	1367293	0.60	cps
Iron	54-2	8268	7302	7372	7647	7.05	cps
Iron	56-2	127699	126915	127812	127475	0.38	cps
Iron	57-2	3154	3190	3030	3125	2.68	cps
Krypton	83-1	197	147	170	171	14.62	cps
Lead	206-1	13177	13837	13417	13477	2.48	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11645	11755	11835	11745	0.81	cps
Lead	208-1	53788	54488	53477	53918	0.96	cps
Lithium	6-1	7702832	7595910	7514278	7604340	1.24	cps
Magnesium	24-2	118016	117408	118788	118071	0.59	cps
Manganese	55-2	1683	1530	1387	1533	9.68	cps
Molybdenum	94-1	31659	31683	31459	31600	0.39	cps
Molybdenum	95-1	37404	38837	37524	37922	2.10	cps
Molybdenum	96-1	41692	42668	42725	42362	1.37	cps
Molybdenum	97-1	23784	23901	23326	23670	1.28	cps
Molybdenum	98-1	61194	61455	61238	61296	0.23	cps
Neodymium	150-1	43	63	23	43	46.16	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	3047	2880	2767	2898	4.86	cps
Phosphorus	31-2	197	160	160	172	12.29	cps
Potassium	39-2	72913	72102	72240	72418	0.60	cps
Rhodium	103-1	13818193	13541849	13686738	13682260	1.01	cps
Rhodium	103-2	4974000	5040808	4941059	4985289	1.02	cps
Scandium	45-1	10699250	10507760	10724484	10643831	1.11	cps
Scandium	45-2	184305	181797	181447	182517	0.85	cps
Selenium	82-1	1070	1183	1163	1139	5.31	cps
Selenium	77-2	10	43	17	23	75.58	cps
Selenium	78-2	90	73	73	79	12.20	cps
Silicon	28-1	520061	518924	514427	517804	0.58	cps
Silver	107-1	19417	19264	19193	19291	0.59	cps
Silver	109-1	18105	18286	18339	18243	0.67	cps
Sodium	23-2	251279	251279	253381	251980	0.48	cps
Strontium	86-1	5504	5685	5314	5501	3.36	cps
Strontium	88-1	44497	43986	44474	44319	0.65	cps
Sulfur	34-1	445574	444633	443519	444575	0.23	cps
Terbium	159-1	19440307	18998165	19423625	19287366	1.30	cps
Terbium	159-2	6006679	6001022	5898337	5968679	1.02	cps
Thallium	203-1	15796	15433	15476	15568	1.28	cps
Thallium	205-1	36872	37180	36916	36989	0.45	cps
Tin	118-1	63955	64223	64983	64387	0.83	cps
Titanium	47-1	12362	12319	12135	12272	0.98	cps
Uranium	238-1	46876	46622	46565	46688	0.35	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-08	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-02-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:33:55	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11875	11722	12095	11897	1.58	cps
Ytterbium	172-1	103	100	70	91	20.15	cps
Ytterbium	172-2	30	50	23	34	40.30	cps
Ytterbium	176-1	2574	2504	2560	2546	1.46	cps
Ytterbium	176-2	357	383	280	340	15.78	cps
Yttrium	89-1	27006823	26502607	26272184	26593871	1.41	cps
Yttrium	89-2	1857001	1874261	1816115	1849126	1.61	cps
Zinc	66-2	2670	2767	2614	2684	2.89	cps
Zirconium	90-1	27076	26976	26148	26733	1.91	cps
Zirconium	91-1	5998	6071	6432	6167	3.76	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1140	1227	1293	1220	6.30	cps
Antimony	121-1	26626	26783	26529	26646	0.48	cps
Arsenic	75-2	277	270	270	272	1.41	cps
Barium	135-1	36041	35396	35142	35526	1.30	cps
Barium	137-1	61974	60595	60360	60976	1.43	cps
Beryllium	9-1	5287	5202	5248	5245	0.81	cps
Bismuth	209-1	10785400	10168787	10248021	10400736	3.23	cps
Bismuth	209-2	4045033	3988580	3934137	3989250	1.39	cps
Bromine	81-1	6858	6758	6905	6841	1.10	cps
Cadmium	108-1	323	353	333	337	4.54	cps
Cadmium	106-1	8476	7746	7849	8024	4.93	cps
Cadmium	111-1	5079	4949	4797	4942	2.86	cps
Calcium	43-1	27820	26491	26668	26993	2.67	cps
Calcium	44-1	439492	429932	428967	432797	1.34	cps
Carbon	12-1	3124489	3099240	3091617	3105116	0.55	cps
Carbon	12-2	20635	20418	19740	20264	2.30	cps
Chlorine	35-1	204112	201123	198326	201187	1.44	cps
Chlorine	35-2	753	700	770	741	4.93	cps
Chromium	52-2	6462	6465	6682	6536	1.93	cps
Cobalt	59-2	5758	5701	6028	5829	3.00	cps
Copper	63-2	11788	11508	11398	11565	1.74	cps
Dysprosium	156-1	60	57	50	56	9.17	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	67	70	53	63	13.93	cps
Erbium	164-2	17	30	17	21	36.45	cps
Gadolinium	160-1	73	53	73	67	17.32	cps
Gadolinium	160-2	17	7	10	11	45.82	cps
Holmium	165-1	17441628	16630104	16746196	16939310	2.59	cps
Holmium	165-2	5562042	5691934	5597950	5617309	1.19	cps
Indium	115-1	13760324	13130498	12892623	13261149	3.38	cps
Indium	115-2	1264367	1252569	1245614	1254183	0.76	cps
Iron	54-2	6988	6845	6585	6806	3.01	cps
Iron	56-2	116696	116430	116215	116447	0.21	cps
Iron	57-2	3024	2937	2787	2916	4.11	cps
Krypton	83-1	193	167	173	178	7.81	cps
Lead	206-1	12793	12389	12710	12631	1.69	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11438	10911	10885	11078	2.82	cps
Lead	208-1	50969	49420	49377	49922	1.82	cps
Lithium	6-1	6940751	6829374	6960773	6910300	1.02	cps
Magnesium	24-2	110343	109682	108829	109618	0.69	cps
Manganese	55-2	1357	1427	1450	1411	3.44	cps
Molybdenum	94-1	29421	28369	29154	28981	1.89	cps
Molybdenum	95-1	36478	34837	34897	35404	2.63	cps
Molybdenum	96-1	39733	38313	39255	39100	1.85	cps
Molybdenum	97-1	22498	21660	22218	22126	1.93	cps
Molybdenum	98-1	56866	55316	55949	56044	1.39	cps
Neodymium	150-1	23	20	13	19	26.96	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	2610	2720	2674	2668	2.07	cps
Phosphorus	31-2	180	110	93	128	35.99	cps
Potassium	39-2	68039	68910	67611	68187	0.97	cps
Rhodium	103-1	12798268	12162038	12200863	12387056	2.88	cps
Rhodium	103-2	4569597	4591826	4543693	4568372	0.53	cps
Scandium	45-1	9776832	9363903	9474749	9538495	2.24	cps
Scandium	45-2	169648	166623	166523	167598	1.06	cps
Selenium	82-1	1153	1223	1100	1159	5.34	cps
Selenium	77-2	17	10	10	12	31.50	cps
Selenium	78-2	80	73	87	80	8.34	cps
Silicon	28-1	498898	496559	492879	496112	0.61	cps
Silver	107-1	18012	17621	17738	17790	1.13	cps
Silver	109-1	17121	16366	16660	16716	2.27	cps
Sodium	23-2	237500	234655	236420	236191	0.61	cps
Strontium	86-1	5014	4914	5128	5019	2.13	cps
Strontium	88-1	42050	41127	40980	41386	1.40	cps
Sulfur	34-1	441735	443404	442665	442601	0.19	cps
Terbium	159-1	17815711	16960130	17070811	17282217	2.69	cps
Terbium	159-2	5640120	5467543	5468492	5525385	1.80	cps
Thallium	203-1	14255	13971	14612	14279	2.25	cps
Thallium	205-1	34907	33901	34131	34313	1.54	cps
Tin	118-1	59632	59475	58608	59238	0.93	cps
Titanium	47-1	12042	11261	11208	11504	4.06	cps
Uranium	238-1	43568	43023	42417	43003	1.34	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-17	Instrumnet Name :	P8
Client Sample ID :	LLOQ-WATER-QT2-2024	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:37:23	DataFile Name :	028LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10941	11368	10968	11092	2.16	cps
Ytterbium	172-1	90	90	73	84	11.40	cps
Ytterbium	172-2	23	50	50	41	37.46	cps
Ytterbium	176-1	2340	2237	1984	2187	8.39	cps
Ytterbium	176-2	317	333	347	332	4.52	cps
Yttrium	89-1	24749800	23675217	23907959	24110992	2.34	cps
Yttrium	89-2	1714743	1702292	1698420	1705152	0.50	cps
Zinc	66-2	2390	2537	2584	2504	4.03	cps
Zirconium	90-1	26041	24699	24451	25064	3.41	cps
Zirconium	91-1	5551	5488	5284	5441	2.56	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	630	667	637	644	3.03	cps
Antimony	121-1	6028	5868	6151	6016	2.36	cps
Arsenic	75-2	123	130	103	119	11.67	cps
Barium	135-1	8259	8466	8603	8443	2.05	cps
Barium	137-1	14144	14631	14304	14360	1.73	cps
Beryllium	9-1	2546	2509	2647	2567	2.80	cps
Bismuth	209-1	11133587	11457911	10930714	11174071	2.38	cps
Bismuth	209-2	4290124	4320874	4252062	4287687	0.80	cps
Bromine	81-1	6962	6862	7119	6981	1.85	cps
Cadmium	108-1	170	140	127	146	15.25	cps
Cadmium	106-1	8079	8606	8062	8249	3.75	cps
Cadmium	111-1	3187	3283	3211	3227	1.56	cps
Calcium	43-1	11635	11812	12169	11872	2.29	cps
Calcium	44-1	184926	188668	193116	188903	2.17	cps
Carbon	12-1	3336633	3445839	3402287	3394919	1.62	cps
Carbon	12-2	22905	22961	23025	22964	0.26	cps
Chlorine	35-1	191059	188176	190297	189844	0.79	cps
Chlorine	35-2	797	707	673	726	8.79	cps
Chromium	52-2	2440	2640	2534	2538	3.94	cps
Cobalt	59-2	2547	2440	2457	2481	2.31	cps
Copper	63-2	7038	7035	7412	7162	3.02	cps
Dysprosium	156-1	37	27	73	46	53.93	cps
Dysprosium	156-2	10	3	3	6	69.34	cps
Erbium	164-1	100	87	90	92	7.52	cps
Erbium	164-2	3	40	43	29	76.84	cps
Gadolinium	160-1	90	83	93	89	5.73	cps
Gadolinium	160-2	7	13	17	12	41.65	cps
Holmium	165-1	17846196	18740312	17405557	17997355	3.78	cps
Holmium	165-2	6073576	6043541	5984339	6033819	0.75	cps
Indium	115-1	14042942	14556666	13527643	14042417	3.66	cps
Indium	115-2	1332573	1331792	1327661	1330675	0.20	cps
Iron	54-2	6265	6221	6208	6231	0.48	cps
Iron	56-2	123554	111867	112677	116033	5.62	cps
Iron	57-2	2740	2947	2737	2808	4.28	cps
Krypton	83-1	190	153	143	162	15.14	cps
Lead	206-1	6635	6565	6662	6621	0.75	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5688	5591	5745	5675	1.37	cps
Lead	208-1	26150	25860	26424	26145	1.08	cps
Lithium	6-1	7290022	7334875	7071451	7232116	1.95	cps
Magnesium	24-2	47326	48233	46888	47482	1.44	cps
Manganese	55-2	1437	1473	1427	1446	1.70	cps
Molybdenum	94-1	6258	6221	6178	6219	0.64	cps
Molybdenum	95-1	3267	3540	3230	3346	5.06	cps
Molybdenum	96-1	4184	4504	4231	4306	4.02	cps
Molybdenum	97-1	2060	2134	2194	2129	3.14	cps
Molybdenum	98-1	5321	5524	5685	5510	3.31	cps
Neodymium	150-1	23	30	20	24	20.83	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1720	1850	1877	1816	4.62	cps
Phosphorus	31-2	83	83	87	84	2.28	cps
Potassium	39-2	24013	24818	24447	24426	1.65	cps
Rhodium	103-1	13091870	13682532	12572757	13115720	4.23	cps
Rhodium	103-2	4838370	4868213	4851673	4852752	0.31	cps
Scandium	45-1	10127503	10577765	10045204	10250158	2.80	cps
Scandium	45-2	178946	177177	177531	177885	0.53	cps
Selenium	82-1	1153	1167	1290	1203	6.26	cps
Selenium	77-2	13	20	20	18	21.66	cps
Selenium	78-2	47	87	97	77	34.51	cps
Silicon	28-1	462346	469666	473523	468512	1.21	cps
Silver	107-1	8526	8506	8579	8537	0.44	cps
Silver	109-1	7696	8042	7942	7893	2.26	cps
Sodium	23-2	116067	115889	113907	115287	1.04	cps
Strontium	86-1	2554	2380	2364	2432	4.33	cps
Strontium	88-1	18980	18366	18943	18763	1.84	cps
Sulfur	34-1	448935	452979	452694	451536	0.50	cps
Terbium	159-1	18456203	19089662	17824976	18456947	3.43	cps
Terbium	159-2	5945145	5933064	5907279	5928496	0.33	cps
Thallium	203-1	6422	6929	7105	6819	5.20	cps
Thallium	205-1	15329	15830	16250	15803	2.92	cps
Tin	118-1	6512	6555	6695	6587	1.46	cps
Titanium	47-1	1087	1157	1293	1179	8.92	cps
Uranium	238-1	19418	20119	19769	19769	1.77	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-07	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-01-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:40:47	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1080	1070	883	1011	10.96	cps
Ytterbium	172-1	120	80	87	96	22.43	cps
Ytterbium	172-2	37	37	43	39	9.89	cps
Ytterbium	176-1	2417	2480	2267	2388	4.59	cps
Ytterbium	176-2	393	330	307	343	13.06	cps
Yttrium	89-1	25448170	26359025	24658272	25488489	3.34	cps
Yttrium	89-2	1832632	1825916	1806498	1821682	0.75	cps
Zinc	66-2	663	773	797	744	9.57	cps
Zirconium	90-1	11305	11271	11728	11435	2.23	cps
Zirconium	91-1	2480	2537	2477	2498	1.35	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1233	1443	1400	1359	8.16	cps
Antimony	121-1	28146	27484	27962	27864	1.22	cps
Arsenic	75-2	250	330	233	271	19.06	cps
Barium	135-1	36242	36215	36683	36380	0.72	cps
Barium	137-1	63970	63943	63836	63917	0.11	cps
Beryllium	9-1	5489	5518	5535	5514	0.42	cps
Bismuth	209-1	11226952	11068758	10995524	11097078	1.07	cps
Bismuth	209-2	4406816	4505215	4086506	4332845	5.05	cps
Bromine	81-1	6802	6785	6705	6764	0.76	cps
Cadmium	108-1	340	353	320	338	4.97	cps
Cadmium	106-1	8022	8373	8676	8357	3.91	cps
Cadmium	111-1	5164	5354	5308	5276	1.89	cps
Calcium	43-1	27967	27974	28047	27996	0.16	cps
Calcium	44-1	445014	446689	448769	446824	0.42	cps
Carbon	12-1	2933209	2885594	2899181	2905995	0.84	cps
Carbon	12-2	19773	19056	19623	19484	1.94	cps
Chlorine	35-1	134669	135248	135450	135122	0.30	cps
Chlorine	35-2	600	460	530	530	13.21	cps
Chromium	52-2	6245	6565	6485	6432	2.59	cps
Cobalt	59-2	5921	6028	5925	5958	1.02	cps
Copper	63-2	11918	12055	11762	11912	1.23	cps
Dysprosium	156-1	43	43	47	44	4.34	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	80	127	77	94	29.60	cps
Erbium	164-2	37	43	13	31	50.64	cps
Gadolinium	160-1	67	100	70	79	23.27	cps
Gadolinium	160-2	7	17	10	11	45.82	cps
Holmium	165-1	18391926	18063522	17917016	18124155	1.34	cps
Holmium	165-2	6186382	6302716	5700283	6063127	5.27	cps
Indium	115-1	14204898	14300109	13851777	14118928	1.67	cps
Indium	115-2	1444525	1413116	1250995	1369545	7.58	cps
Iron	54-2	7038	6865	7062	6988	1.54	cps
Iron	56-2	123599	120977	122554	122377	1.08	cps
Iron	57-2	3147	3170	3047	3121	2.10	cps
Krypton	83-1	167	193	203	188	10.09	cps
Lead	206-1	12806	12937	12900	12881	0.52	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11338	11162	11512	11337	1.55	cps
Lead	208-1	51601	51714	52078	51798	0.48	cps
Lithium	6-1	7613115	7486776	7573718	7557869	0.86	cps
Magnesium	24-2	114680	114532	114855	114689	0.14	cps
Manganese	55-2	1613	1557	1557	1576	2.08	cps
Molybdenum	94-1	30149	29992	30139	30094	0.29	cps
Molybdenum	95-1	36875	36709	36641	36742	0.33	cps
Molybdenum	96-1	40124	40486	40499	40370	0.53	cps
Molybdenum	97-1	22672	22612	22495	22593	0.40	cps
Molybdenum	98-1	59226	58436	58539	58734	0.73	cps
Neodymium	150-1	30	20	13	21	39.75	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	3100	2837	2820	2919	5.38	cps
Phosphorus	31-2	163	133	147	148	10.17	cps
Potassium	39-2	70059	69476	69630	69722	0.43	cps
Rhodium	103-1	13198995	13035041	13015871	13083302	0.77	cps
Rhodium	103-2	5048964	5007220	4617783	4891322	4.86	cps
Scandium	45-1	10294053	10296145	10034720	10208306	1.47	cps
Scandium	45-2	182528	186267	167425	178740	5.58	cps
Selenium	82-1	1150	1270	1073	1165	8.51	cps
Selenium	77-2	23	13	20	19	26.96	cps
Selenium	78-2	70	60	83	71	16.46	cps
Silicon	28-1	485108	488698	486590	486799	0.37	cps
Silver	107-1	18589	18766	19223	18860	1.74	cps
Silver	109-1	17575	18182	17441	17733	2.23	cps
Sodium	23-2	243191	239963	241813	241656	0.67	cps
Strontium	86-1	5281	5454	5314	5350	1.72	cps
Strontium	88-1	42695	43290	43992	43326	1.50	cps
Sulfur	34-1	451533	450245	449338	450372	0.24	cps
Terbium	159-1	18553267	18403692	18176891	18377950	1.03	cps
Terbium	159-2	6053212	6093451	5570137	5905600	4.93	cps
Thallium	203-1	14819	14715	14512	14682	1.06	cps
Thallium	205-1	35996	35398	35428	35608	0.95	cps
Tin	118-1	62478	62237	61748	62155	0.60	cps
Titanium	47-1	11968	11785	11972	11908	0.90	cps
Uranium	238-1	45314	45090	44237	44880	1.27	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-11	Instrumnet Name :	P8
Client Sample ID :	LOQ-WATER-05-QT2-20	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 14:54:47	DataFile Name :	033LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11461	11545	11805	11604	1.54	cps
Ytterbium	172-1	130	103	107	113	12.82	cps
Ytterbium	172-2	50	53	43	49	10.42	cps
Ytterbium	176-1	2384	2357	2440	2394	1.78	cps
Ytterbium	176-2	320	417	353	363	13.51	cps
Yttrium	89-1	25630290	25599189	25301810	25510429	0.71	cps
Yttrium	89-2	1847062	1882059	1665432	1798184	6.47	cps
Zinc	66-2	2490	2487	2650	2542	3.67	cps
Zirconium	90-1	25804	25707	25707	25739	0.22	cps
Zirconium	91-1	5755	5798	5621	5725	1.61	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	640	650	680	657	3.17	cps
Antimony	121-1	6165	5745	5941	5950	3.53	cps
Arsenic	75-2	97	117	100	104	10.26	cps
Barium	135-1	7919	8183	7899	8000	1.98	cps
Barium	137-1	13997	13483	14111	13864	2.41	cps
Beryllium	9-1	2445	2532	2459	2479	1.90	cps
Bismuth	209-1	11141562	11202052	11249585	11197733	0.48	cps
Bismuth	209-2	4228960	4213151	4284329	4242147	0.88	cps
Bromine	81-1	6448	6648	6912	6669	3.49	cps
Cadmium	108-1	133	143	143	140	4.12	cps
Cadmium	106-1	8389	7872	8259	8174	3.29	cps
Cadmium	111-1	3111	3034	3172	3106	2.22	cps
Calcium	43-1	11858	11855	11775	11829	0.40	cps
Calcium	44-1	191037	188900	188820	189586	0.66	cps
Carbon	12-1	3120426	3117956	3074247	3104210	0.84	cps
Carbon	12-2	20531	20741	20388	20553	0.87	cps
Chlorine	35-1	127220	125680	126446	126448	0.61	cps
Chlorine	35-2	420	387	443	417	6.84	cps
Chromium	52-2	2744	2727	2864	2778	2.68	cps
Cobalt	59-2	2400	2514	2717	2544	6.31	cps
Copper	63-2	6905	6865	7102	6957	1.82	cps
Dysprosium	156-1	80	50	60	63	24.12	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	83	90	113	96	16.49	cps
Erbium	164-2	30	27	33	30	11.10	cps
Gadolinium	160-1	77	80	60	72	14.84	cps
Gadolinium	160-2	13	10	23	16	44.60	cps
Holmium	165-1	18114580	18167860	18360410	18214283	0.71	cps
Holmium	165-2	5806495	5907590	6018124	5910736	1.79	cps
Indium	115-1	14205983	14141475	14217093	14188184	0.29	cps
Indium	115-2	1301496	1297202	1317290	1305329	0.81	cps
Iron	54-2	5454	5471	5624	5517	1.70	cps
Iron	56-2	100269	101518	100115	100634	0.76	cps
Iron	57-2	2640	2440	2597	2559	4.11	cps
Krypton	83-1	130	173	167	157	14.90	cps
Lead	206-1	6198	6198	6332	6243	1.23	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5421	5505	5328	5418	1.63	cps
Lead	208-1	25434	24703	24993	25043	1.47	cps
Lithium	6-1	7547801	7422933	7183590	7384775	2.51	cps
Magnesium	24-2	46527	46624	46578	46576	0.10	cps
Manganese	55-2	1207	1297	1220	1241	3.91	cps
Molybdenum	94-1	6278	6175	6005	6153	2.24	cps
Molybdenum	95-1	3504	3497	3390	3464	1.84	cps
Molybdenum	96-1	4261	4404	4491	4385	2.65	cps
Molybdenum	97-1	2244	2234	2144	2207	2.50	cps
Molybdenum	98-1	5628	5451	5498	5526	1.66	cps
Neodymium	150-1	27	30	23	27	12.51	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	1890	1763	1973	1876	5.64	cps
Phosphorus	31-2	77	103	50	77	34.78	cps
Potassium	39-2	24471	23913	23392	23925	2.25	cps
Rhodium	103-1	13216930	12976751	13105756	13099812	0.92	cps
Rhodium	103-2	4788557	4692922	4817315	4766265	1.37	cps
Scandium	45-1	10165018	10195768	10136415	10165734	0.29	cps
Scandium	45-2	174620	174660	175251	174844	0.20	cps
Selenium	82-1	1150	1043	1230	1141	8.21	cps
Selenium	77-2	7	10	3	7	50.03	cps
Selenium	78-2	83	137	63	94	40.14	cps
Silicon	28-1	433862	431542	437733	434379	0.72	cps
Silver	107-1	7819	8142	7979	7980	2.03	cps
Silver	109-1	7225	7872	7792	7630	4.62	cps
Sodium	23-2	112966	111643	112990	112533	0.69	cps
Strontium	86-1	2567	2210	2394	2390	7.46	cps
Strontium	88-1	18052	18369	18285	18235	0.90	cps
Sulfur	34-1	455085	457649	460066	457600	0.54	cps
Terbium	159-1	18755933	18434844	18188805	18459861	1.54	cps
Terbium	159-2	5834504	5794685	5814029	5814406	0.34	cps
Thallium	203-1	6575	6288	6665	6509	3.02	cps
Thallium	205-1	15563	15656	15610	15609	0.30	cps
Tin	118-1	6728	6582	6462	6591	2.03	cps
Titanium	47-1	1237	1130	1147	1171	4.90	cps
Uranium	238-1	19358	19295	19285	19313	0.21	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-01	Instrumnet Name :	P8
Client Sample ID :	MDL-WATER-QT2-2024-	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:00:00	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1000	927	1013	980	4.76	cps
Ytterbium	172-1	120	93	127	113	15.57	cps
Ytterbium	172-2	43	40	57	47	18.90	cps
Ytterbium	176-1	2350	2460	2287	2366	3.71	cps
Ytterbium	176-2	310	363	430	368	16.35	cps
Yttrium	89-1	25695237	25740650	25392071	25609319	0.74	cps
Yttrium	89-2	1749267	1763325	1766315	1759636	0.52	cps
Zinc	66-2	823	700	767	763	8.09	cps
Zirconium	90-1	11185	10978	11565	11242	2.65	cps
Zirconium	91-1	2637	2590	2424	2550	4.40	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	630	570	603	601	5.00	cps
Antimony	121-1	5688	5601	5831	5707	2.04	cps
Arsenic	75-2	143	127	103	124	16.15	cps
Barium	135-1	7929	7629	7829	7796	1.96	cps
Barium	137-1	13704	13670	13830	13735	0.62	cps
Beryllium	9-1	2552	2424	2396	2457	3.39	cps
Bismuth	209-1	11152487	11020502	11103352	11092114	0.60	cps
Bismuth	209-2	4160443	4153091	4163144	4158893	0.13	cps
Bromine	81-1	6648	6642	6495	6595	1.31	cps
Cadmium	108-1	110	150	170	143	21.31	cps
Cadmium	106-1	8149	8286	8193	8209	0.85	cps
Cadmium	111-1	3053	3082	3110	3082	0.92	cps
Calcium	43-1	11585	11375	11568	11509	1.01	cps
Calcium	44-1	186084	186432	188062	186859	0.57	cps
Carbon	12-1	3097225	3108359	3124060	3109881	0.43	cps
Carbon	12-2	21045	20474	20501	20674	1.56	cps
Chlorine	35-1	114314	113541	112953	113602	0.60	cps
Chlorine	35-2	447	453	413	438	4.90	cps
Chromium	52-2	2314	2427	2314	2351	2.78	cps
Cobalt	59-2	2347	2564	2607	2506	5.56	cps
Copper	63-2	6728	6722	6885	6778	1.36	cps
Dysprosium	156-1	40	50	47	46	11.18	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	103	113	83	100	15.28	cps
Erbium	164-2	50	60	17	42	53.73	cps
Gadolinium	160-1	83	70	53	69	21.82	cps
Gadolinium	160-2	17	20	17	18	10.81	cps
Holmium	165-1	17829575	17932700	17755688	17839321	0.50	cps
Holmium	165-2	5863240	5771048	5842182	5825490	0.83	cps
Indium	115-1	14179099	13937488	13973314	14029967	0.93	cps
Indium	115-2	1278004	1280187	1287450	1281880	0.39	cps
Iron	54-2	5208	5388	5665	5420	4.25	cps
Iron	56-2	95860	97084	96118	96354	0.67	cps
Iron	57-2	2324	2420	2454	2399	2.81	cps
Krypton	83-1	153	173	233	187	22.30	cps
Lead	206-1	6212	6292	6218	6240	0.71	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5525	5411	5508	5481	1.12	cps
Lead	208-1	25026	24736	25183	24982	0.91	cps
Lithium	6-1	7571621	7528207	7615546	7571791	0.58	cps
Magnesium	24-2	46267	46965	46364	46532	0.81	cps
Manganese	55-2	1273	1233	1347	1285	4.48	cps
Molybdenum	94-1	5858	5878	6195	5977	3.16	cps
Molybdenum	95-1	3347	3350	3337	3345	0.21	cps
Molybdenum	96-1	4137	4307	4064	4170	2.99	cps
Molybdenum	97-1	1984	2004	2054	2014	1.79	cps
Molybdenum	98-1	5208	5311	5244	5254	1.00	cps
Neodymium	150-1	20	20	33	24	31.49	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1800	1777	1927	1835	4.40	cps
Phosphorus	31-2	103	90	103	99	7.78	cps
Potassium	39-2	23245	22841	23609	23232	1.65	cps
Rhodium	103-1	13050977	12845366	12781671	12892671	1.09	cps
Rhodium	103-2	4707257	4684048	4721434	4704246	0.40	cps
Scandium	45-1	10281436	10116514	10145243	10181065	0.87	cps
Scandium	45-2	173382	172268	173217	172956	0.35	cps
Selenium	82-1	1000	1053	967	1007	4.34	cps
Selenium	77-2	7	7	3	6	34.70	cps
Selenium	78-2	120	57	50	76	51.13	cps
Silicon	28-1	434731	434901	434661	434764	0.03	cps
Silver	107-1	7899	8203	7892	7998	2.22	cps
Silver	109-1	7445	7092	7295	7278	2.44	cps
Sodium	23-2	111727	110689	110837	111084	0.51	cps
Strontium	86-1	2377	2464	2334	2391	2.77	cps
Strontium	88-1	17801	18025	17778	17868	0.76	cps
Sulfur	34-1	448788	449053	447310	448384	0.21	cps
Terbium	159-1	18619305	18315460	18168405	18367723	1.25	cps
Terbium	159-2	5612601	5704318	5707439	5674786	0.95	cps
Thallium	203-1	6322	6368	6262	6317	0.85	cps
Thallium	205-1	15349	15529	15182	15354	1.13	cps
Tin	118-1	6131	6488	6442	6354	3.05	cps
Titanium	47-1	1203	1133	1087	1141	5.15	cps
Uranium	238-1	18831	19121	19388	19113	1.46	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2403-10	Instrumnet Name :	P8
Client Sample ID :	LOD-MDL-WATER-04-QT	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:06:21	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	890	860	897	882	2.21	cps
Ytterbium	172-1	97	103	70	90	19.60	cps
Ytterbium	172-2	13	57	43	38	58.76	cps
Ytterbium	176-1	2300	2357	2244	2300	2.46	cps
Ytterbium	176-2	323	390	327	347	10.84	cps
Yttrium	89-1	25144461	25102670	25087406	25111513	0.12	cps
Yttrium	89-2	1757679	1702351	1800060	1753363	2.79	cps
Zinc	66-2	700	680	793	724	8.35	cps
Zirconium	90-1	11041	10938	10998	10992	0.47	cps
Zirconium	91-1	2530	2410	2297	2412	4.84	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3147341	3162635	3168445	3159474	0.35	cps
Antimony	121-1	6934533	6890676	6841150	6888786	0.68	cps
Arsenic	75-2	121320	123539	122231	122363	0.91	cps
Barium	135-1	8974808	8915165	9012419	8967464	0.55	cps
Barium	137-1	15431366	15397457	15670914	15499912	0.96	cps
Beryllium	9-1	2429562	2424747	2449752	2434687	0.54	cps
Bismuth	209-1	9147581	9289065	9360442	9265696	1.17	cps
Bismuth	209-2	3536992	3611363	3559207	3569187	1.07	cps
Bromine	81-1	7429	7492	7219	7380	1.94	cps
Cadmium	108-1	135494	134418	135969	135294	0.59	cps
Cadmium	106-1	196163	197814	195524	196500	0.60	cps
Cadmium	111-1	1649148	1673780	1662117	1661682	0.74	cps
Calcium	43-1	13241458	13156013	13163822	13187098	0.36	cps
Calcium	44-1	211303764	211429010	212167717	211633497	0.22	cps
Carbon	12-1	3524601	3585803	3630313	3580239	1.48	cps
Carbon	12-2	28731	29817	29286	29278	1.85	cps
Chlorine	35-1	111287	112453	113080	112273	0.81	cps
Chlorine	35-2	487	463	583	511	12.45	cps
Chromium	52-2	1549690	1523555	1518409	1530551	1.10	cps
Cobalt	59-2	2690362	2662579	2703280	2685407	0.77	cps
Copper	63-2	19177506	19002394	19091392	19090431	0.46	cps
Dysprosium	156-1	477	410	503	463	10.38	cps
Dysprosium	156-2	123	97	113	111	12.13	cps
Erbium	164-1	373	487	380	413	15.39	cps
Erbium	164-2	97	110	143	117	20.60	cps
Gadolinium	160-1	413	333	357	368	11.19	cps
Gadolinium	160-2	113	137	110	120	12.11	cps
Holmium	165-1	16851985	16679124	17009364	16846824	0.98	cps
Holmium	165-2	5623090	5720657	5576560	5640102	1.30	cps
Indium	115-1	12294655	12104182	12144762	12181200	0.82	cps
Indium	115-2	1171983	1176728	1172872	1173861	0.21	cps
Iron	54-2	15278107	14888289	15074577	15080324	1.29	cps
Iron	56-2	274535309	275772363	272829496	274379056	0.54	cps
Iron	57-2	6972394	6928059	6921123	6940526	0.40	cps
Krypton	83-1	250	207	243	233	10.00	cps
Lead	206-1	27823150	27602303	28077831	27834428	0.85	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23726735	23807732	24147260	23893909	0.93	cps
Lead	208-1	109586048	109772891	110644428	110001122	0.51	cps
Lithium	6-1	6324760	6381727	6434604	6380364	0.86	cps
Magnesium	24-2	54163704	53649351	54147568	53986874	0.54	cps
Manganese	55-2	6410110	6415260	6341101	6388823	0.65	cps
Molybdenum	94-1	25244565	25546658	25456301	25415841	0.61	cps
Molybdenum	95-1	36666081	36490614	36543453	36566716	0.25	cps
Molybdenum	96-1	39722855	39933129	39768992	39808325	0.28	cps
Molybdenum	97-1	22585436	22811940	22604856	22667410	0.55	cps
Molybdenum	98-1	59411689	59764839	59371802	59516110	0.36	cps
Neodymium	150-1	967	840	777	861	11.23	cps
Neodymium	150-2	77	67	63	69	10.08	cps
Nickel	60-2	733702	737998	740073	737258	0.44	cps
Phosphorus	31-2	26795	27095	26918	26936	0.56	cps
Potassium	39-2	15562969	15654191	15722935	15646698	0.51	cps
Rhodium	103-1	10923294	10772201	10841161	10845552	0.70	cps
Rhodium	103-2	4021550	4038755	3988574	4016293	0.63	cps
Scandium	45-1	9323244	9298347	9386695	9336095	0.49	cps
Scandium	45-2	166145	166836	165618	166200	0.37	cps
Selenium	82-1	104658	105649	103711	104673	0.93	cps
Selenium	77-2	1793	1683	1820	1766	4.10	cps
Selenium	78-2	6035	6038	5748	5940	2.80	cps
Silicon	28-1	20424170	20309532	20104365	20279355	0.80	cps
Silver	107-1	8611497	8515007	8694003	8606836	1.04	cps
Silver	109-1	8227988	8166187	8166242	8186806	0.44	cps
Sodium	23-2	105860908	105726912	105890222	105826014	0.08	cps
Strontium	86-1	2633966	2647534	2583429	2621643	1.29	cps
Strontium	88-1	22070836	22444756	22164253	22226615	0.88	cps
Sulfur	34-1	1100974	1072585	1078847	1084135	1.38	cps
Terbium	159-1	17046296	16958262	16986839	16997133	0.26	cps
Terbium	159-2	5462397	5416976	5495080	5458151	0.72	cps
Thallium	203-1	7112998	7126700	7203594	7147764	0.68	cps
Thallium	205-1	16939254	17139161	17064711	17047709	0.59	cps
Tin	118-1	5891831	5859975	5875379	5875728	0.27	cps
Titanium	47-1	11317226	11409040	11477779	11401348	0.71	cps
Uranium	238-1	22718394	22940481	23130905	22929927	0.90	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:20:59	DataFile Name :	038CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1132476	1122558	1124635	1126557	0.46	cps
Ytterbium	172-1	440	433	420	431	2.36	cps
Ytterbium	172-2	167	117	173	152	20.35	cps
Ytterbium	176-1	34983	34699	34936	34873	0.44	cps
Ytterbium	176-2	11275	11468	11535	11426	1.18	cps
Yttrium	89-1	23648275	23546436	23525022	23573245	0.28	cps
Yttrium	89-2	1704840	1693671	1689209	1695907	0.47	cps
Zinc	66-2	2046521	2030825	2035150	2037499	0.40	cps
Zirconium	90-1	12781389	12831064	12835679	12816044	0.23	cps
Zirconium	91-1	2884547	2849760	2876468	2870259	0.63	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93	67	100	87	20.35	cps
Antimony	121-1	390	333	433	386	13.01	cps
Arsenic	75-2	0	10	10	7	86.60	cps
Barium	135-1	717	610	570	632	11.99	cps
Barium	137-1	1103	1027	1020	1050	4.41	cps
Beryllium	9-1	577	601	569	582	2.89	cps
Bismuth	209-1	10355849	10534232	10755946	10548676	1.90	cps
Bismuth	209-2	4116329	4193401	4168998	4159576	0.95	cps
Bromine	81-1	6788	7269	7002	7020	3.43	cps
Cadmium	108-1	37	13	33	28	45.44	cps
Cadmium	106-1	7482	7519	7712	7571	1.63	cps
Cadmium	111-1	1541	1598	1562	1567	1.84	cps
Calcium	43-1	660	590	563	604	8.26	cps
Calcium	44-1	10634	10337	10454	10475	1.43	cps
Carbon	12-1	3004901	2994676	2964471	2988016	0.70	cps
Carbon	12-2	19927	19526	19266	19573	1.70	cps
Chlorine	35-1	96032	94201	94187	94807	1.12	cps
Chlorine	35-2	387	283	343	338	15.36	cps
Chromium	52-2	607	643	517	589	11.07	cps
Cobalt	59-2	130	127	167	141	15.73	cps
Copper	63-2	3220	3134	2954	3103	4.39	cps
Dysprosium	156-1	23	37	27	29	24.03	cps
Dysprosium	156-2	7	3	10	7	50.03	cps
Erbium	164-1	70	67	77	71	7.16	cps
Erbium	164-2	30	43	40	38	18.36	cps
Gadolinium	160-1	70	77	53	67	18.03	cps
Gadolinium	160-2	13	17	13	14	13.35	cps
Holmium	165-1	16660464	17237746	17329466	17075892	2.12	cps
Holmium	165-2	5791570	5846135	5869040	5835581	0.68	cps
Indium	115-1	13213156	13587379	13521901	13440812	1.49	cps
Indium	115-2	1276182	1279334	1278690	1278069	0.13	cps
Iron	54-2	443	447	363	418	11.29	cps
Iron	56-2	6118	6135	6018	6090	1.04	cps
Iron	57-2	140	143	187	157	16.62	cps
Krypton	83-1	173	210	170	184	12.03	cps
Lead	206-1	2310	2244	2270	2275	1.48	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2057	1977	1930	1988	3.22	cps
Lead	208-1	9188	8788	8738	8905	2.77	cps
Lithium	6-1	7068269	7149316	7221954	7146513	1.08	cps
Magnesium	24-2	847	827	947	873	7.36	cps
Manganese	55-2	247	277	230	251	9.42	cps
Molybdenum	94-1	620	547	567	578	6.56	cps
Molybdenum	95-1	453	390	333	392	15.31	cps
Molybdenum	96-1	407	393	390	397	2.22	cps
Molybdenum	97-1	230	157	183	190	19.53	cps
Molybdenum	98-1	617	407	610	544	21.92	cps
Neodymium	150-1	50	30	37	39	26.18	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1027	1163	1070	1087	6.43	cps
Phosphorus	31-2	70	50	60	60	16.67	cps
Potassium	39-2	8363	8846	8663	8624	2.83	cps
Rhodium	103-1	12469717	12750111	12384959	12534929	1.52	cps
Rhodium	103-2	4644754	4649340	4660367	4651487	0.17	cps
Scandium	45-1	9751050	9767513	9818585	9779050	0.36	cps
Scandium	45-2	170124	167379	168971	168825	0.82	cps
Selenium	82-1	-7	-30	-7	-14	-93.28	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	20	0	9	114.55	cps
Silicon	28-1	401903	400937	401318	401386	0.12	cps
Silver	107-1	317	310	313	313	1.06	cps
Silver	109-1	240	210	290	247	16.39	cps
Sodium	23-2	30308	30823	30205	30445	1.09	cps
Strontium	86-1	400	293	357	350	15.33	cps
Strontium	88-1	443	447	453	448	1.14	cps
Sulfur	34-1	415352	415624	415347	415441	0.04	cps
Terbium	159-1	17123068	17677813	17338337	17379740	1.61	cps
Terbium	159-2	5620393	5625612	5643131	5629712	0.21	cps
Thallium	203-1	553	533	520	536	3.13	cps
Thallium	205-1	1337	1287	1207	1277	5.14	cps
Tin	118-1	1240	1427	1210	1292	9.09	cps
Titanium	47-1	200	140	163	168	18.03	cps
Uranium	238-1	103	83	63	83	24.01	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:27:15	DataFile Name :	040CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	0	10	8	89.21	cps
Ytterbium	172-1	107	73	60	80	30.05	cps
Ytterbium	172-2	33	37	43	38	13.48	cps
Ytterbium	176-1	2227	2210	2244	2227	0.75	cps
Ytterbium	176-2	280	347	353	327	12.41	cps
Yttrium	89-1	23797960	24843333	24521448	24387580	2.20	cps
Yttrium	89-2	1721804	1752312	1725358	1733158	0.96	cps
Zinc	66-2	230	290	267	262	11.54	cps
Zirconium	90-1	1023	910	1013	982	6.39	cps
Zirconium	91-1	177	143	197	172	15.64	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	610	603	580	598	2.64	cps
Antimony	121-1	5971	6065	5871	5969	1.62	cps
Arsenic	75-2	97	103	107	102	4.98	cps
Barium	135-1	7616	7959	7706	7760	2.30	cps
Barium	137-1	13287	13620	13964	13624	2.49	cps
Beryllium	9-1	2561	2525	2555	2547	0.76	cps
Bismuth	209-1	10922134	10881697	10881677	10895169	0.21	cps
Bismuth	209-2	4220228	4190326	4223125	4211226	0.43	cps
Bromine	81-1	6818	6965	6982	6922	1.30	cps
Cadmium	108-1	157	147	113	139	16.33	cps
Cadmium	106-1	7846	7849	7879	7858	0.23	cps
Cadmium	111-1	2940	2994	3020	2984	1.37	cps
Calcium	43-1	11345	11478	11278	11367	0.90	cps
Calcium	44-1	183451	182387	185136	183658	0.75	cps
Carbon	12-1	3020933	3034908	3012971	3022937	0.37	cps
Carbon	12-2	20561	19396	19610	19856	3.12	cps
Chlorine	35-1	93160	92821	91426	92469	0.99	cps
Chlorine	35-2	330	413	403	382	11.90	cps
Chromium	52-2	2360	2267	2200	2276	3.53	cps
Cobalt	59-2	2607	2490	2517	2538	2.41	cps
Copper	63-2	6728	6698	6585	6671	1.13	cps
Dysprosium	156-1	40	23	33	32	26.04	cps
Dysprosium	156-2	7	0	7	4	86.60	cps
Erbium	164-1	103	100	67	90	22.53	cps
Erbium	164-2	27	20	23	23	14.29	cps
Gadolinium	160-1	53	50	77	60	24.22	cps
Gadolinium	160-2	23	20	17	20	16.65	cps
Holmium	165-1	17841292	17606372	17707386	17718350	0.67	cps
Holmium	165-2	5975990	5969229	5896415	5947211	0.74	cps
Indium	115-1	13848382	13923754	13754460	13842199	0.61	cps
Indium	115-2	1307841	1310743	1313756	1310780	0.23	cps
Iron	54-2	5408	5478	5494	5460	0.84	cps
Iron	56-2	96775	96809	96107	96564	0.41	cps
Iron	57-2	2420	2474	2277	2390	4.26	cps
Krypton	83-1	180	133	197	170	19.31	cps
Lead	206-1	6652	6752	6849	6751	1.46	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6195	6105	6091	6130	0.92	cps
Lead	208-1	27241	27448	27028	27239	0.77	cps
Lithium	6-1	7409433	7633950	7344818	7462734	2.03	cps
Magnesium	24-2	45243	45805	45277	45442	0.69	cps
Manganese	55-2	1460	1353	1310	1375	5.62	cps
Molybdenum	94-1	5628	5795	5865	5762	2.11	cps
Molybdenum	95-1	3214	3164	3320	3233	2.48	cps
Molybdenum	96-1	4081	4054	4274	4136	2.90	cps
Molybdenum	97-1	1920	2190	2067	2059	6.57	cps
Molybdenum	98-1	5424	5234	5378	5346	1.85	cps
Neodymium	150-1	27	27	30	28	6.92	cps
Neodymium	150-2	10	3	7	7	50.03	cps
Nickel	60-2	1933	1873	1787	1865	3.95	cps
Phosphorus	31-2	80	90	80	83	6.93	cps
Potassium	39-2	23392	24174	23773	23780	1.64	cps
Rhodium	103-1	13139037	12911632	12997449	13016039	0.88	cps
Rhodium	103-2	4751031	4798691	4730956	4760226	0.73	cps
Scandium	45-1	10007619	10072235	10121146	10067000	0.57	cps
Scandium	45-2	171931	172404	172145	172160	0.14	cps
Selenium	82-1	1127	1120	1133	1127	0.59	cps
Selenium	77-2	20	13	10	14	35.26	cps
Selenium	78-2	57	57	47	53	10.82	cps
Silicon	28-1	424015	428236	426616	426289	0.50	cps
Silver	107-1	7729	7939	7962	7877	1.63	cps
Silver	109-1	7212	7369	7585	7389	2.54	cps
Sodium	23-2	114582	113453	113191	113742	0.65	cps
Strontium	86-1	2204	2394	2220	2272	4.63	cps
Strontium	88-1	17982	18179	17775	17978	1.12	cps
Sulfur	34-1	407054	406987	407745	407262	0.10	cps
Terbium	159-1	17942566	17987480	17899846	17943297	0.24	cps
Terbium	159-2	5768480	5811328	5775944	5785251	0.40	cps
Thallium	203-1	6395	6248	6298	6314	1.18	cps
Thallium	205-1	15252	15313	14899	15155	1.48	cps
Tin	118-1	6342	6535	6305	6394	1.93	cps
Titanium	47-1	1153	1087	1060	1100	4.37	cps
Uranium	238-1	18984	18457	18507	18649	1.56	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	P2409-03	Instrumnet Name :	P8
Client Sample ID :	MDL-SOIL-QT2-2024-03	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:33:57	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	897	893	1077	956	10.98	cps
Ytterbium	172-1	107	147	87	113	26.96	cps
Ytterbium	172-2	50	43	37	43	15.38	cps
Ytterbium	176-1	2107	2260	2207	2191	3.55	cps
Ytterbium	176-2	280	343	330	318	10.51	cps
Yttrium	89-1	25315362	25453401	25310840	25359868	0.32	cps
Yttrium	89-2	1771755	1754008	1790600	1772121	1.03	cps
Zinc	66-2	770	707	767	748	4.77	cps
Zirconium	90-1	11068	10878	10871	10939	1.02	cps
Zirconium	91-1	2477	2314	2374	2388	3.46	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	113	43	73	77	45.81	cps
Antimony	121-1	117	117	77	103	22.35	cps
Arsenic	75-2	3	3	10	6	69.34	cps
Barium	135-1	333	373	293	333	12.00	cps
Barium	137-1	573	533	550	552	3.64	cps
Beryllium	9-1	400	371	394	388	3.89	cps
Bismuth	209-1	10855018	10772755	10808580	10812118	0.38	cps
Bismuth	209-2	4232942	4306623	4243822	4261129	0.93	cps
Bromine	81-1	6682	7032	6602	6772	3.38	cps
Cadmium	108-1	50	20	33	34	43.64	cps
Cadmium	106-1	7642	7729	7606	7659	0.83	cps
Cadmium	111-1	1543	1575	1528	1549	1.56	cps
Calcium	43-1	523	520	610	551	9.26	cps
Calcium	44-1	10307	10017	10300	10208	1.62	cps
Carbon	12-1	2995163	2939759	2976712	2970545	0.95	cps
Carbon	12-2	19853	19636	19970	19820	0.85	cps
Chlorine	35-1	113322	112157	111478	112319	0.83	cps
Chlorine	35-2	447	430	417	431	3.49	cps
Chromium	52-2	657	517	617	597	12.09	cps
Cobalt	59-2	143	120	147	137	10.63	cps
Copper	63-2	3190	3204	3297	3230	1.80	cps
Dysprosium	156-1	40	30	33	34	14.78	cps
Dysprosium	156-2	0	0	10	3	173.21	cps
Erbium	164-1	67	107	103	92	24.06	cps
Erbium	164-2	17	23	37	26	39.85	cps
Gadolinium	160-1	60	77	53	63	18.98	cps
Gadolinium	160-2	23	17	23	21	18.21	cps
Holmium	165-1	17485781	17745422	17331891	17521031	1.19	cps
Holmium	165-2	5824154	5992319	5899998	5905490	1.43	cps
Indium	115-1	13821058	13679545	13702338	13734314	0.55	cps
Indium	115-2	1288770	1303386	1298502	1296886	0.57	cps
Iron	54-2	363	453	383	400	11.81	cps
Iron	56-2	5891	5681	5738	5770	1.88	cps
Iron	57-2	150	173	153	159	7.94	cps
Krypton	83-1	170	173	177	173	1.92	cps
Lead	206-1	1500	1507	1547	1518	1.66	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1330	1320	1263	1305	2.76	cps
Lead	208-1	5937	5844	5924	5902	0.86	cps
Lithium	6-1	7432731	7365946	7532235	7443637	1.12	cps
Magnesium	24-2	990	903	997	963	5.41	cps
Manganese	55-2	207	280	193	227	20.59	cps
Molybdenum	94-1	413	333	433	393	13.45	cps
Molybdenum	95-1	167	157	163	162	3.14	cps
Molybdenum	96-1	210	227	180	206	11.51	cps
Molybdenum	97-1	103	120	110	111	7.55	cps
Molybdenum	98-1	213	240	260	238	9.85	cps
Neodymium	150-1	17	20	17	18	10.81	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1183	1193	1327	1235	6.48	cps
Phosphorus	31-2	50	80	47	59	31.17	cps
Potassium	39-2	7912	7822	8066	7933	1.55	cps
Rhodium	103-1	12804264	12535862	12763823	12701316	1.14	cps
Rhodium	103-2	4712753	4767186	4728383	4736107	0.59	cps
Scandium	45-1	9953431	10107995	10027464	10029630	0.77	cps
Scandium	45-2	172377	173692	171237	172435	0.71	cps
Selenium	82-1	27	-17	-20	-3	-781.11	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	17	3	8	99.04	cps
Silicon	28-1	393622	394445	390726	392931	0.50	cps
Silver	107-1	240	227	207	224	7.48	cps
Silver	109-1	140	117	150	136	12.62	cps
Sodium	23-2	24467	24604	24617	24563	0.34	cps
Strontium	86-1	337	343	303	328	6.54	cps
Strontium	88-1	530	453	487	490	7.85	cps
Sulfur	34-1	433901	429746	432155	431934	0.48	cps
Terbium	159-1	17910090	18028786	17970907	17969928	0.33	cps
Terbium	159-2	5804831	5727348	5747549	5759909	0.70	cps
Thallium	203-1	307	400	337	348	13.70	cps
Thallium	205-1	840	837	890	856	3.49	cps
Tin	118-1	1170	1150	1220	1180	3.06	cps
Titanium	47-1	127	153	173	151	15.49	cps
Uranium	238-1	40	50	50	47	12.37	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW	Instrumnet Name :	P8
Client Sample ID :	PBW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:48:25	DataFile Name :	045CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	7	3	6	34.70	cps
Ytterbium	172-1	97	90	103	97	6.90	cps
Ytterbium	172-2	27	37	47	37	27.27	cps
Ytterbium	176-1	2290	2304	2120	2238	4.57	cps
Ytterbium	176-2	387	353	290	343	14.30	cps
Yttrium	89-1	25223110	24823169	24768499	24938259	1.00	cps
Yttrium	89-2	1759890	1786116	1768992	1771666	0.75	cps
Zinc	66-2	250	200	277	242	16.07	cps
Zirconium	90-1	890	927	943	920	2.97	cps
Zirconium	91-1	183	203	203	197	5.87	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2530	2547	2607	2561	1.57	cps
Antimony	121-1	54314	54769	55120	54734	0.74	cps
Arsenic	75-2	510	570	537	539	5.58	cps
Barium	135-1	70780	72606	72533	71973	1.44	cps
Barium	137-1	125111	125115	126242	125489	0.52	cps
Beryllium	9-1	10753	10868	10804	10808	0.53	cps
Bismuth	209-1	10630998	10784697	10708590	10708095	0.72	cps
Bismuth	209-2	4102985	4081322	4121552	4101953	0.49	cps
Bromine	81-1	6632	6228	6505	6455	3.20	cps
Cadmium	108-1	577	670	660	636	8.06	cps
Cadmium	106-1	8553	8356	8456	8455	1.16	cps
Cadmium	111-1	8596	8501	8685	8594	1.07	cps
Calcium	43-1	53429	53974	54453	53952	0.95	cps
Calcium	44-1	874776	870778	872848	872801	0.23	cps
Carbon	12-1	2991067	2945830	2916418	2951105	1.27	cps
Carbon	12-2	19403	19436	19807	19549	1.15	cps
Chlorine	35-1	1386088	1530372	1630310	1515590	8.10	cps
Chlorine	35-2	6471	6445	6328	6415	1.19	cps
Chromium	52-2	11998	12686	12285	12323	2.80	cps
Cobalt	59-2	11235	11421	11768	11475	2.36	cps
Copper	63-2	21773	21436	21700	21637	0.82	cps
Dysprosium	156-1	60	53	40	51	19.92	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	87	97	93	92	5.52	cps
Erbium	164-2	20	30	27	26	19.92	cps
Gadolinium	160-1	67	63	90	73	19.81	cps
Gadolinium	160-2	23	13	27	21	32.88	cps
Holmium	165-1	17525708	17490813	16766381	17260967	2.48	cps
Holmium	165-2	5738021	5703331	5734677	5725343	0.33	cps
Indium	115-1	13427796	13427381	13515494	13456890	0.38	cps
Indium	115-2	1256893	1261751	1263232	1260625	0.26	cps
Iron	54-2	51021	51195	50291	50836	0.94	cps
Iron	56-2	933434	925204	930062	929567	0.45	cps
Iron	57-2	22832	23479	23710	23340	1.95	cps
Krypton	83-1	163	160	167	163	2.04	cps
Lead	206-1	24770	25502	25472	25248	1.64	cps

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	21885	21638	21942	21822	0.74	cps
Lead	208-1	99218	100720	101111	100350	1.00	cps
Lithium	6-1	7260339	7434014	7390966	7361773	1.23	cps
Magnesium	24-2	213750	214288	211244	213094	0.76	cps
Manganese	55-2	2980	2890	2980	2950	1.76	cps
Molybdenum	94-1	60400	60069	60263	60244	0.28	cps
Molybdenum	95-1	71402	72585	73121	72369	1.22	cps
Molybdenum	96-1	79821	79405	80230	79819	0.52	cps
Molybdenum	97-1	44434	45551	44936	44974	1.24	cps
Molybdenum	98-1	115388	116117	116907	116137	0.65	cps
Neodymium	150-1	23	43	27	31	34.44	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	4214	4131	4077	4141	1.66	cps
Phosphorus	31-2	250	207	157	204	22.84	cps
Potassium	39-2	131845	128896	130608	130450	1.14	cps
Rhodium	103-1	12437270	12489530	12502754	12476518	0.28	cps
Rhodium	103-2	4643984	4603413	4539808	4595735	1.14	cps
Scandium	45-1	9904927	9788663	9649636	9781075	1.31	cps
Scandium	45-2	166084	169072	169456	168204	1.10	cps
Selenium	82-1	2314	2370	2334	2339	1.23	cps
Selenium	77-2	37	37	50	41	18.72	cps
Selenium	78-2	113	123	163	133	19.84	cps
Silicon	28-1	697965	699299	696399	697888	0.21	cps
Silver	107-1	36732	37451	37260	37148	1.00	cps
Silver	109-1	34279	35345	35145	34923	1.62	cps
Sodium	23-2	454640	459544	450005	454730	1.05	cps
Strontium	86-1	10247	10087	10254	10196	0.93	cps
Strontium	88-1	83410	85566	85996	84991	1.63	cps
Sulfur	34-1	429373	425367	425261	426667	0.55	cps
Terbium	159-1	17639010	17572173	17472898	17561361	0.48	cps
Terbium	159-2	5622729	5654317	5612856	5629967	0.38	cps
Thallium	203-1	29176	29998	30021	29732	1.62	cps
Thallium	205-1	71147	70802	70889	70946	0.25	cps
Tin	118-1	121049	122116	122322	121829	0.56	cps
Titanium	47-1	26558	26879	26788	26742	0.62	cps
Uranium	238-1	90584	90926	91638	91049	0.59	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW	Instrumnet Name :	P8
Client Sample ID :	LCSW	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:51:47	DataFile Name :	046LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23433	23443	23543	23473	0.26	cps
Ytterbium	172-1	87	83	117	96	19.21	cps
Ytterbium	172-2	27	43	40	37	24.04	cps
Ytterbium	176-1	2387	2384	2127	2299	6.49	cps
Ytterbium	176-2	373	430	380	394	7.85	cps
Yttrium	89-1	24497912	24692679	24280137	24490243	0.84	cps
Yttrium	89-2	1698550	1699552	1693812	1697305	0.18	cps
Zinc	66-2	5058	4634	4768	4820	4.49	cps
Zirconium	90-1	50738	51113	51662	51171	0.91	cps
Zirconium	91-1	11031	11268	11421	11240	1.75	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	87	90	87	3.85	cps
Antimony	121-1	93	93	83	90	6.42	cps
Arsenic	75-2	0	0	3	1	173.21	cps
Barium	135-1	273	293	310	292	6.28	cps
Barium	137-1	507	530	527	521	2.42	cps
Beryllium	9-1	351	319	312	327	6.35	cps
Bismuth	209-1	10659631	10728388	10662562	10683527	0.36	cps
Bismuth	209-2	4098017	4057983	4131803	4095934	0.90	cps
Bromine	81-1	6665	6351	6395	6470	2.63	cps
Cadmium	108-1	33	23	13	23	42.86	cps
Cadmium	106-1	7459	7339	7525	7441	1.27	cps
Cadmium	111-1	1505	1491	1519	1505	0.92	cps
Calcium	43-1	587	530	600	572	6.50	cps
Calcium	44-1	10290	9640	9583	9838	3.99	cps
Carbon	12-1	2939421	2944120	2936530	2940023	0.13	cps
Carbon	12-2	19226	19400	18862	19163	1.43	cps
Chlorine	35-1	177316	162282	153366	164321	7.37	cps
Chlorine	35-2	507	527	483	506	4.29	cps
Chromium	52-2	627	497	580	568	11.60	cps
Cobalt	59-2	110	117	117	114	3.36	cps
Copper	63-2	2947	3097	3037	3027	2.49	cps
Dysprosium	156-1	57	50	53	53	6.25	cps
Dysprosium	156-2	3	3	7	4	43.40	cps
Erbium	164-1	90	70	90	83	13.86	cps
Erbium	164-2	17	27	20	21	24.12	cps
Gadolinium	160-1	73	63	70	69	7.39	cps
Gadolinium	160-2	10	13	17	13	25.01	cps
Holmium	165-1	17364417	16864015	17137008	17121813	1.46	cps
Holmium	165-2	5627782	5751837	5782907	5720842	1.43	cps
Indium	115-1	13585008	13552972	13456069	13531350	0.50	cps
Indium	115-2	1231403	1259700	1260098	1250400	1.32	cps
Iron	54-2	333	523	387	414	23.65	cps
Iron	56-2	5361	5795	5084	5413	6.61	cps
Iron	57-2	137	127	117	127	7.89	cps
Krypton	83-1	197	140	147	161	19.22	cps
Lead	206-1	1527	1450	1347	1441	6.27	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1177	1243	1100	1173	6.11	cps
Lead	208-1	5561	5701	5267	5509	4.01	cps
Lithium	6-1	7400439	7288499	7552767	7413902	1.79	cps
Magnesium	24-2	927	1013	940	960	4.86	cps
Manganese	55-2	257	210	223	230	10.45	cps
Molybdenum	94-1	423	320	373	372	13.88	cps
Molybdenum	95-1	187	180	130	166	18.71	cps
Molybdenum	96-1	233	210	233	226	5.97	cps
Molybdenum	97-1	120	67	113	100	29.06	cps
Molybdenum	98-1	180	203	210	198	7.97	cps
Neodymium	150-1	10	27	20	19	44.42	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1147	1207	1123	1159	3.71	cps
Phosphorus	31-2	40	67	63	57	25.64	cps
Potassium	39-2	7479	7262	7395	7379	1.48	cps
Rhodium	103-1	12566623	12403486	12406648	12458919	0.75	cps
Rhodium	103-2	4472474	4547351	4496226	4505350	0.85	cps
Scandium	45-1	9551659	9755668	9652204	9653177	1.06	cps
Scandium	45-2	163956	168930	167007	166631	1.51	cps
Selenium	82-1	-43	57	53	22	255.57	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	17	3	7	132.33	cps
Silicon	28-1	390353	389376	389695	389808	0.13	cps
Silver	107-1	350	353	283	329	12.01	cps
Silver	109-1	277	230	210	239	14.32	cps
Sodium	23-2	22224	23098	23058	22793	2.17	cps
Strontium	86-1	293	310	270	291	6.90	cps
Strontium	88-1	533	427	510	490	11.44	cps
Sulfur	34-1	415023	411839	412275	413046	0.42	cps
Terbium	159-1	17505391	17603416	17383596	17497468	0.63	cps
Terbium	159-2	5451430	5513493	5560045	5508323	0.99	cps
Thallium	203-1	360	290	343	331	11.04	cps
Thallium	205-1	913	853	813	860	5.85	cps
Tin	118-1	1210	1621	1283	1371	15.97	cps
Titanium	47-1	173	127	143	148	16.00	cps
Uranium	238-1	7	50	37	31	71.33	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS	Instrumnet Name :	P8
Client Sample ID :	PBS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:55:09	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	23	17	13	90.13	cps
Ytterbium	172-1	87	73	40	67	36.06	cps
Ytterbium	172-2	23	13	33	23	42.86	cps
Ytterbium	176-1	2200	2240	2224	2221	0.90	cps
Ytterbium	176-2	300	307	360	322	10.21	cps
Yttrium	89-1	24210286	24197113	24312999	24240133	0.26	cps
Yttrium	89-2	1668902	1658765	1710729	1679465	1.64	cps
Zinc	66-2	317	220	273	270	17.93	cps
Zirconium	90-1	913	837	857	869	4.58	cps
Zirconium	91-1	203	153	147	168	18.46	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2764	2750	2607	2707	3.21	cps
Antimony	121-1	55077	55171	55381	55210	0.28	cps
Arsenic	75-2	627	580	550	586	6.60	cps
Barium	135-1	71172	72084	72449	71902	0.91	cps
Barium	137-1	125562	125118	127309	125997	0.92	cps
Beryllium	9-1	10858	11042	10969	10956	0.85	cps
Bismuth	209-1	10659162	10623982	10637193	10640112	0.17	cps
Bismuth	209-2	4135824	4074482	4147276	4119194	0.95	cps
Bromine	81-1	6425	6495	6245	6388	2.02	cps
Cadmium	108-1	637	587	600	608	4.26	cps
Cadmium	106-1	8416	8122	8413	8317	2.03	cps
Cadmium	111-1	8766	8309	8821	8632	3.26	cps
Calcium	43-1	54914	55821	55831	55522	0.95	cps
Calcium	44-1	874328	874807	877049	875395	0.17	cps
Carbon	12-1	2833304	2860006	2893259	2862190	1.05	cps
Carbon	12-2	18879	19006	19119	19001	0.63	cps
Chlorine	35-1	1473512	1621264	1714820	1603199	7.59	cps
Chlorine	35-2	6618	6415	6305	6446	2.47	cps
Chromium	52-2	12312	11658	11631	11867	3.25	cps
Cobalt	59-2	11451	11662	11481	11531	0.99	cps
Copper	63-2	21747	22034	21780	21854	0.72	cps
Dysprosium	156-1	33	67	27	42	50.76	cps
Dysprosium	156-2	7	0	3	3	100.05	cps
Erbium	164-1	80	87	67	78	13.09	cps
Erbium	164-2	30	30	30	30	0.00	cps
Gadolinium	160-1	40	70	80	63	32.87	cps
Gadolinium	160-2	10	20	27	19	44.42	cps
Holmium	165-1	16757620	17060440	16981851	16933304	0.93	cps
Holmium	165-2	5731186	5787044	5725903	5748044	0.59	cps
Indium	115-1	13346593	13386627	13314392	13349204	0.27	cps
Indium	115-2	1273399	1274714	1268547	1272220	0.26	cps
Iron	54-2	51817	51536	52536	51963	0.99	cps
Iron	56-2	942824	932308	941523	938885	0.61	cps
Iron	57-2	24167	23029	23767	23654	2.44	cps
Krypton	83-1	173	170	167	170	1.96	cps
Lead	206-1	25478	25578	25465	25507	0.24	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	22116	21732	22236	22028	1.20	cps
Lead	208-1	101623	100659	100903	101062	0.50	cps
Lithium	6-1	7161450	7292776	7370631	7274952	1.45	cps
Magnesium	24-2	216527	215756	216514	216265	0.20	cps
Manganese	55-2	2777	2980	2884	2880	3.53	cps
Molybdenum	94-1	60377	59640	60119	60045	0.62	cps
Molybdenum	95-1	72454	72373	73479	72769	0.85	cps
Molybdenum	96-1	80776	79844	81098	80573	0.81	cps
Molybdenum	97-1	45310	44247	45444	45000	1.46	cps
Molybdenum	98-1	116396	117841	116463	116900	0.70	cps
Neodymium	150-1	13	17	20	17	20.01	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	4011	4497	4524	4344	6.65	cps
Phosphorus	31-2	220	170	217	202	13.82	cps
Potassium	39-2	133497	135374	132824	133899	0.99	cps
Rhodium	103-1	12290278	12484402	12397386	12390689	0.78	cps
Rhodium	103-2	4592929	4577316	4574516	4581587	0.22	cps
Scandium	45-1	9555407	9781997	9695066	9677490	1.18	cps
Scandium	45-2	168538	167298	169276	168371	0.59	cps
Selenium	82-1	2254	2180	2374	2269	4.30	cps
Selenium	77-2	37	37	27	33	17.32	cps
Selenium	78-2	113	177	150	147	21.68	cps
Silicon	28-1	690641	690278	692517	691145	0.17	cps
Silver	107-1	36244	37043	37374	36887	1.57	cps
Silver	109-1	35188	36248	35218	35551	1.70	cps
Sodium	23-2	461538	459048	461289	460625	0.30	cps
Strontium	86-1	10064	10441	9980	10162	2.41	cps
Strontium	88-1	84457	86855	85151	85487	1.44	cps
Sulfur	34-1	420707	417937	422205	420283	0.52	cps
Terbium	159-1	17257140	17434276	17590941	17427452	0.96	cps
Terbium	159-2	5618258	5654737	5586433	5619809	0.61	cps
Thallium	203-1	30412	30239	30265	30305	0.31	cps
Thallium	205-1	71479	71365	72806	71883	1.11	cps
Tin	118-1	120595	121351	121648	121198	0.45	cps
Titanium	47-1	23065	23205	23456	23242	0.85	cps
Uranium	238-1	90161	92182	91098	91147	1.11	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS	Instrumnet Name :	P8
Client Sample ID :	LCSS	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 15:58:31	DataFile Name :	048LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23716	23723	23620	23686	0.24	cps
Ytterbium	172-1	93	127	67	96	31.46	cps
Ytterbium	172-2	27	43	23	31	34.44	cps
Ytterbium	176-1	2254	2300	2410	2321	3.47	cps
Ytterbium	176-2	333	350	383	356	7.16	cps
Yttrium	89-1	23958648	24313805	24186144	24152865	0.74	cps
Yttrium	89-2	1719738	1736146	1713637	1723174	0.68	cps
Zinc	66-2	4914	4874	4864	4884	0.54	cps
Zirconium	90-1	52164	51980	51163	51769	1.03	cps
Zirconium	91-1	11345	11555	11125	11341	1.90	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	73	90	82	10.20	cps
Antimony	121-1	110	113	73	99	22.45	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	260	317	263	280	11.36	cps
Barium	137-1	463	483	427	458	6.28	cps
Beryllium	9-1	289	299	306	298	2.95	cps
Bismuth	209-1	9051051	10505912	10593922	10050295	8.62	cps
Bismuth	209-2	4204971	4062320	4106119	4124470	1.77	cps
Bromine	81-1	6552	6528	6635	6572	0.85	cps
Cadmium	108-1	20	43	23	29	43.68	cps
Cadmium	106-1	6218	7079	7435	6911	9.05	cps
Cadmium	111-1	1260	1395	1491	1382	8.41	cps
Calcium	43-1	607	533	550	563	6.82	cps
Calcium	44-1	9897	10240	9800	9979	2.32	cps
Carbon	12-1	2779692	2762644	2819320	2787219	1.04	cps
Carbon	12-2	18936	18532	18842	18770	1.13	cps
Chlorine	35-1	116481	116151	114497	115710	0.92	cps
Chlorine	35-2	390	443	497	443	12.03	cps
Chromium	52-2	567	517	553	546	4.75	cps
Cobalt	59-2	80	100	97	92	11.62	cps
Copper	63-2	3244	3127	3204	3192	1.86	cps
Dysprosium	156-1	43	37	27	36	23.58	cps
Dysprosium	156-2	0	0	10	3	173.21	cps
Erbium	164-1	87	103	90	93	9.45	cps
Erbium	164-2	27	17	10	18	47.19	cps
Gadolinium	160-1	93	63	83	80	19.09	cps
Gadolinium	160-2	10	20	3	11	75.52	cps
Holmium	165-1	14485901	17183713	17261842	16310485	9.69	cps
Holmium	165-2	5821845	5688295	5799919	5770019	1.24	cps
Indium	115-1	11323178	13439828	13422319	12728442	9.56	cps
Indium	115-2	1291686	1264487	1270941	1275705	1.11	cps
Iron	54-2	480	420	433	444	7.09	cps
Iron	56-2	6882	6645	7038	6855	2.89	cps
Iron	57-2	183	163	183	177	6.54	cps
Krypton	83-1	120	183	193	166	24.02	cps
Lead	206-1	1267	1123	1300	1230	7.63	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1017	1037	1113	1056	4.83	cps
Lead	208-1	4984	4904	5074	4987	1.71	cps
Lithium	6-1	6262525	7090826	7364131	6905827	8.31	cps
Magnesium	24-2	1070	973	927	990	7.38	cps
Manganese	55-2	190	207	183	193	6.22	cps
Molybdenum	94-1	290	293	300	294	1.73	cps
Molybdenum	95-1	123	127	180	143	22.18	cps
Molybdenum	96-1	193	227	190	203	9.97	cps
Molybdenum	97-1	57	83	107	82	30.43	cps
Molybdenum	98-1	230	180	207	206	12.17	cps
Neodymium	150-1	30	10	17	19	53.91	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1193	1133	1050	1126	6.40	cps
Phosphorus	31-2	30	57	53	47	31.14	cps
Potassium	39-2	7389	7272	7665	7442	2.72	cps
Rhodium	103-1	10656073	12480857	12516380	11884437	8.95	cps
Rhodium	103-2	4732163	4574166	4604165	4636831	1.81	cps
Scandium	45-1	8245982	9561105	9641341	9149476	8.56	cps
Scandium	45-2	171571	167578	169884	169678	1.18	cps
Selenium	82-1	40	17	-30	9	401.07	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	3	10	10	8	49.52	cps
Silicon	28-1	391084	391619	394398	392367	0.45	cps
Silver	107-1	230	187	263	227	16.96	cps
Silver	109-1	90	107	127	108	17.03	cps
Sodium	23-2	22621	22548	22644	22604	0.22	cps
Strontium	86-1	310	367	327	334	8.71	cps
Strontium	88-1	463	507	510	493	5.28	cps
Sulfur	34-1	426407	428324	426832	427188	0.24	cps
Terbium	159-1	14803908	17184520	17765230	16584553	9.46	cps
Terbium	159-2	5745086	5579589	5557746	5627474	1.82	cps
Thallium	203-1	237	340	320	299	18.34	cps
Thallium	205-1	677	647	707	677	4.43	cps
Tin	118-1	1243	1424	1230	1299	8.32	cps
Titanium	47-1	143	193	140	159	18.80	cps
Uranium	238-1	17	13	33	21	50.75	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBS 6020	Instrumnet Name :	P8
Client Sample ID :	PBS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:06:24	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	0	10	3	4	114.60	cps
Ytterbium	172-1	97	80	110	96	15.73	cps
Ytterbium	172-2	40	53	33	42	24.12	cps
Ytterbium	176-1	1800	2217	2190	2069	11.27	cps
Ytterbium	176-2	343	297	333	324	7.57	cps
Yttrium	89-1	20553326	24292703	24602894	23149641	9.74	cps
Yttrium	89-2	1761552	1681533	1695282	1712789	2.50	cps
Zinc	66-2	260	240	227	242	6.93	cps
Zirconium	90-1	800	787	813	800	1.67	cps
Zirconium	91-1	187	133	200	173	20.35	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	617650	626537	633489	625892	1.27	cps
Antimony	121-1	7281640	7349949	7431266	7354285	1.02	cps
Arsenic	75-2	129592	132113	131379	131028	0.99	cps
Barium	135-1	9381659	9464087	9475918	9440555	0.54	cps
Barium	137-1	16224327	16290813	16275927	16263689	0.21	cps
Beryllium	9-1	2634616	2611955	2564520	2603697	1.37	cps
Bismuth	209-1	10113046	10189485	10263852	10188794	0.74	cps
Bismuth	209-2	4375514	4036616	3881803	4097978	6.16	cps
Bromine	81-1	6835	7022	6792	6883	1.78	cps
Cadmium	108-1	147414	148304	150229	148649	0.97	cps
Cadmium	106-1	211919	218194	213908	214673	1.49	cps
Cadmium	111-1	1825812	1851311	1870784	1849302	1.22	cps
Calcium	43-1	2736203	2808657	2821773	2788877	1.65	cps
Calcium	44-1	43671504	44575248	44589759	44278837	1.19	cps
Carbon	12-1	3289868	3388708	3450472	3376349	2.40	cps
Carbon	12-2	24397	24374	24778	24516	0.93	cps
Chlorine	35-1	121074	122375	122466	121972	0.64	cps
Chlorine	35-2	527	427	523	492	11.54	cps
Chromium	52-2	1595034	1586886	1585310	1589077	0.33	cps
Cobalt	59-2	2947702	2960372	2903433	2937169	1.02	cps
Copper	63-2	21427555	21486145	21463713	21459137	0.14	cps
Dysprosium	156-1	227	207	187	207	9.68	cps
Dysprosium	156-2	43	37	43	41	9.35	cps
Erbium	164-1	197	147	150	164	17.00	cps
Erbium	164-2	43	47	47	46	4.23	cps
Gadolinium	160-1	133	133	103	123	14.05	cps
Gadolinium	160-2	27	23	53	34	47.73	cps
Holmium	165-1	17213503	17250823	17209866	17224731	0.13	cps
Holmium	165-2	6509469	5980017	5797425	6095637	6.07	cps
Indium	115-1	12880092	13250905	13145742	13092246	1.46	cps
Indium	115-2	1363420	1272986	1233967	1290124	5.15	cps
Iron	54-2	3269490	3246511	3277065	3264356	0.49	cps
Iron	56-2	58442392	58508387	58060151	58336977	0.41	cps
Iron	57-2	1505440	1487263	1483191	1491965	0.79	cps
Krypton	83-1	213	240	237	230	6.32	cps
Lead	206-1	29557204	30078944	30634166	30090105	1.79	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25481060	25949709	25953443	25794737	1.05	cps
Lead	208-1	116968214	119399768	119645755	118671246	1.25	cps
Lithium	6-1	6902283	6928054	6865172	6898503	0.46	cps
Magnesium	24-2	11304955	11339161	11302597	11315571	0.18	cps
Manganese	55-2	6810245	6850121	6747492	6802619	0.76	cps
Molybdenum	94-1	26675072	26578440	26809083	26687532	0.43	cps
Molybdenum	95-1	38446469	38521164	39237990	38735208	1.13	cps
Molybdenum	96-1	41332267	42059683	41977319	41789756	0.95	cps
Molybdenum	97-1	23182924	23794990	23842039	23606651	1.56	cps
Molybdenum	98-1	61277606	61874059	62492104	61881256	0.98	cps
Neodymium	150-1	693	817	893	801	12.60	cps
Neodymium	150-2	57	37	33	42	29.89	cps
Nickel	60-2	745917	749612	749548	748359	0.28	cps
Phosphorus	31-2	27763	28197	28718	28226	1.69	cps
Potassium	39-2	3241187	3220453	3238147	3233262	0.35	cps
Rhodium	103-1	11715014	11877074	11885798	11825962	0.81	cps
Rhodium	103-2	4845442	4505730	4367510	4572894	5.38	cps
Scandium	45-1	9652274	9640752	9815877	9702967	1.01	cps
Scandium	45-2	190000	174812	170507	178440	5.74	cps
Selenium	82-1	115747	114491	115506	115248	0.58	cps
Selenium	77-2	1880	2014	1950	1948	3.42	cps
Selenium	78-2	6672	6562	6608	6614	0.83	cps
Silicon	28-1	20677973	20746854	20403873	20609567	0.88	cps
Silver	107-1	9677632	9803859	9783023	9754838	0.69	cps
Silver	109-1	9078725	9328897	9403080	9270234	1.83	cps
Sodium	23-2	22130711	22360711	22354581	22282001	0.59	cps
Strontium	86-1	2677428	2724860	2766562	2722950	1.64	cps
Strontium	88-1	22706417	23564546	23208649	23159871	1.86	cps
Sulfur	34-1	1154239	1161780	1160996	1159005	0.36	cps
Terbium	159-1	17637596	17674423	17844777	17718932	0.62	cps
Terbium	159-2	6229932	5815069	5656890	5900630	5.02	cps
Thallium	203-1	7645293	7718297	7759226	7707605	0.75	cps
Thallium	205-1	18414577	18368355	18406348	18396427	0.13	cps
Tin	118-1	6192112	6355119	6370382	6305871	1.57	cps
Titanium	47-1	11600794	12054661	11970511	11875322	2.03	cps
Uranium	238-1	23452393	23939100	23828891	23740128	1.07	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSS 6020	Instrumnet Name :	P8
Client Sample ID :	LCSS 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:09:47	DataFile Name :	050LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1162666	1175501	1181202	1173123	0.81	cps
Ytterbium	172-1	163	177	157	166	6.15	cps
Ytterbium	172-2	77	80	73	77	4.35	cps
Ytterbium	176-1	34736	35655	36116	35502	1.98	cps
Ytterbium	176-2	11592	11375	11679	11548	1.35	cps
Yttrium	89-1	24205123	24723270	24426351	24451582	1.06	cps
Yttrium	89-2	1930435	1795256	1748254	1824648	5.18	cps
Zinc	66-2	2302918	2345798	2349816	2332844	1.11	cps
Zirconium	90-1	13226966	13331686	13277686	13278780	0.39	cps
Zirconium	91-1	2996840	2989117	2999845	2995268	0.18	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	77	80	103	87	16.77	cps
Antimony	121-1	697	720	507	641	18.25	cps
Arsenic	75-2	10	3	3	6	69.34	cps
Barium	135-1	557	567	553	559	1.24	cps
Barium	137-1	1187	940	973	1033	12.95	cps
Beryllium	9-1	525	515	492	511	3.26	cps
Bismuth	209-1	10776077	10835239	10852946	10821421	0.37	cps
Bismuth	209-2	4193617	4181416	4187763	4187599	0.15	cps
Bromine	81-1	6805	6948	6558	6771	2.91	cps
Cadmium	108-1	37	50	37	41	18.72	cps
Cadmium	106-1	7492	7519	7612	7541	0.84	cps
Cadmium	111-1	1563	1559	1570	1564	0.37	cps
Calcium	43-1	623	717	633	658	7.79	cps
Calcium	44-1	11318	11275	11401	11331	0.57	cps
Carbon	12-1	2783119	2806865	2777131	2789039	0.56	cps
Carbon	12-2	18902	18275	18318	18498	1.89	cps
Chlorine	35-1	95509	94576	94475	94853	0.60	cps
Chlorine	35-2	347	383	370	367	5.06	cps
Chromium	52-2	593	547	560	567	4.24	cps
Cobalt	59-2	150	177	177	168	9.18	cps
Copper	63-2	3517	3367	3320	3402	3.02	cps
Dysprosium	156-1	40	47	53	47	14.28	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	100	63	120	94	30.43	cps
Erbium	164-2	17	27	30	24	28.38	cps
Gadolinium	160-1	70	67	83	73	12.03	cps
Gadolinium	160-2	13	10	13	12	15.73	cps
Holmium	165-1	17477663	17514468	17317693	17436608	0.60	cps
Holmium	165-2	5817061	5864126	5825170	5835452	0.43	cps
Indium	115-1	13587232	13918504	13726707	13744148	1.21	cps
Indium	115-2	1277665	1266209	1275183	1273019	0.47	cps
Iron	54-2	390	387	397	391	1.30	cps
Iron	56-2	5695	5868	5848	5803	1.63	cps
Iron	57-2	117	207	150	158	28.84	cps
Krypton	83-1	167	163	160	163	2.04	cps
Lead	206-1	2207	2254	1960	2140	7.37	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2017	1867	1763	1882	6.77	cps
Lead	208-1	8878	8555	8171	8535	4.15	cps
Lithium	6-1	7183194	7308092	7243092	7244793	0.86	cps
Magnesium	24-2	1030	1103	1157	1097	5.80	cps
Manganese	55-2	397	477	433	436	9.19	cps
Molybdenum	94-1	883	827	787	832	5.84	cps
Molybdenum	95-1	940	763	773	826	12.02	cps
Molybdenum	96-1	983	707	897	862	16.41	cps
Molybdenum	97-1	507	470	370	449	15.76	cps
Molybdenum	98-1	1330	1183	1190	1235	6.71	cps
Neodymium	150-1	37	37	10	28	55.43	cps
Neodymium	150-2	7	7	7	7	0.00	cps
Nickel	60-2	1073	987	1150	1070	7.64	cps
Phosphorus	31-2	37	67	47	50	30.55	cps
Potassium	39-2	8272	7826	7942	8013	2.89	cps
Rhodium	103-1	12607481	13057007	12720011	12794833	1.83	cps
Rhodium	103-2	4663955	4636213	4669223	4656464	0.38	cps
Scandium	45-1	9731121	10117904	9973403	9940809	1.97	cps
Scandium	45-2	170124	168357	169598	169359	0.54	cps
Selenium	82-1	43	30	40	38	18.36	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	10	20	11	75.52	cps
Silicon	28-1	404875	403895	400835	403202	0.52	cps
Silver	107-1	700	560	503	588	17.22	cps
Silver	109-1	500	423	377	433	14.37	cps
Sodium	23-2	24674	23843	24684	24400	1.98	cps
Strontium	86-1	387	313	363	354	10.57	cps
Strontium	88-1	770	720	683	724	6.01	cps
Sulfur	34-1	412453	413651	412287	412797	0.18	cps
Terbium	159-1	17677741	17930580	17674332	17760884	0.83	cps
Terbium	159-2	5688296	5600301	5643313	5643970	0.78	cps
Thallium	203-1	610	483	433	509	17.89	cps
Thallium	205-1	1490	1307	1310	1369	7.66	cps
Tin	118-1	1510	1433	1590	1511	5.18	cps
Titanium	47-1	283	257	250	263	6.70	cps
Uranium	238-1	327	260	230	272	18.18	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 6020	Instrumnet Name :	P8
Client Sample ID :	PBW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:14:05	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	23	13	19	26.96	cps
Ytterbium	172-1	110	100	97	102	6.79	cps
Ytterbium	172-2	27	20	17	21	24.12	cps
Ytterbium	176-1	2244	2274	1977	2165	7.55	cps
Ytterbium	176-2	320	357	340	339	5.42	cps
Yttrium	89-1	24893398	25045894	25073214	25004169	0.39	cps
Yttrium	89-2	1731569	1706071	1704482	1714041	0.89	cps
Zinc	66-2	350	287	347	328	10.88	cps
Zirconium	90-1	1140	1143	1110	1131	1.62	cps
Zirconium	91-1	287	267	213	256	14.83	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	622278	627680	625059	625006	0.43	cps
Antimony	121-1	7347301	7357234	7323293	7342610	0.24	cps
Arsenic	75-2	128681	130592	129468	129580	0.74	cps
Barium	135-1	9301185	9461559	9391967	9384904	0.86	cps
Barium	137-1	16060964	16440570	16260723	16254085	1.17	cps
Beryllium	9-1	2562246	2610945	2537728	2570306	1.45	cps
Bismuth	209-1	10429942	10504075	10200449	10378156	1.53	cps
Bismuth	209-2	3943973	3965892	3820796	3910220	2.00	cps
Bromine	81-1	6802	6538	6888	6743	2.70	cps
Cadmium	108-1	145542	146896	147463	146634	0.67	cps
Cadmium	106-1	211187	213916	212919	212674	0.65	cps
Cadmium	111-1	1855094	1854159	1828453	1845902	0.82	cps
Calcium	43-1	2765243	2759530	2756191	2760321	0.17	cps
Calcium	44-1	44234989	44117894	44428791	44260558	0.35	cps
Carbon	12-1	3306056	3392004	3475697	3391252	2.50	cps
Carbon	12-2	24737	24707	24664	24703	0.15	cps
Chlorine	35-1	104231	105245	106078	105185	0.88	cps
Chlorine	35-2	490	380	443	438	12.61	cps
Chromium	52-2	1598044	1566784	1604129	1589652	1.26	cps
Cobalt	59-2	2918795	2889111	2935115	2914340	0.80	cps
Copper	63-2	21396592	21669701	21440726	21502339	0.68	cps
Dysprosium	156-1	157	213	197	189	15.42	cps
Dysprosium	156-2	30	40	23	31	26.97	cps
Erbium	164-1	163	133	167	154	11.89	cps
Erbium	164-2	43	47	63	51	20.96	cps
Gadolinium	160-1	117	160	150	142	15.95	cps
Gadolinium	160-2	47	43	17	36	46.24	cps
Holmium	165-1	17638770	17745532	17789353	17724552	0.44	cps
Holmium	165-2	5891169	5859213	5655471	5801951	2.20	cps
Indium	115-1	13377851	13420115	13385499	13394489	0.17	cps
Indium	115-2	1241941	1244891	1199495	1228776	2.07	cps
Iron	54-2	3207035	3195562	3286527	3229708	1.53	cps
Iron	56-2	58441257	57778127	58312309	58177231	0.60	cps
Iron	57-2	1488420	1475220	1522925	1495522	1.65	cps
Krypton	83-1	213	150	247	203	24.15	cps
Lead	206-1	30039481	30437047	30151950	30209493	0.68	cps

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25888377	25919150	25805552	25871027	0.23	cps
Lead	208-1	119311639	119662158	118672124	119215307	0.42	cps
Lithium	6-1	6911433	7066391	6989204	6989010	1.11	cps
Magnesium	24-2	11351140	11375100	11320274	11348838	0.24	cps
Manganese	55-2	6655575	6710081	6759989	6708548	0.78	cps
Molybdenum	94-1	26385919	26831827	26717420	26645055	0.87	cps
Molybdenum	95-1	38223929	38650182	38636324	38503478	0.63	cps
Molybdenum	96-1	42005775	41589489	41623986	41739750	0.55	cps
Molybdenum	97-1	23799247	23844217	23608385	23750616	0.53	cps
Molybdenum	98-1	62348874	62724756	61847637	62307089	0.71	cps
Neodymium	150-1	793	840	857	830	3.96	cps
Neodymium	150-2	43	20	30	31	37.62	cps
Nickel	60-2	746681	745262	748396	746780	0.21	cps
Phosphorus	31-2	28030	28635	27473	28046	2.07	cps
Potassium	39-2	3231202	3285220	3233392	3249938	0.94	cps
Rhodium	103-1	12207519	12227905	12110058	12181827	0.52	cps
Rhodium	103-2	4379324	4449406	4295451	4374727	1.76	cps
Scandium	45-1	9768215	9790418	9948758	9835797	1.00	cps
Scandium	45-2	171462	172886	165659	170002	2.25	cps
Selenium	82-1	114604	114070	115499	114725	0.63	cps
Selenium	77-2	1930	1943	1880	1918	1.74	cps
Selenium	78-2	6271	6298	6211	6260	0.71	cps
Silicon	28-1	20607829	20505448	20607039	20573439	0.29	cps
Silver	107-1	9646705	9890460	9671856	9736341	1.38	cps
Silver	109-1	9096205	9271375	9199395	9188992	0.96	cps
Sodium	23-2	22283787	22419651	22337971	22347137	0.31	cps
Strontium	86-1	2747015	2739890	2741567	2742824	0.14	cps
Strontium	88-1	22881605	23199020	23241474	23107366	0.85	cps
Sulfur	34-1	1143000	1135609	1114933	1131181	1.29	cps
Terbium	159-1	17996582	18137036	18165359	18099659	0.50	cps
Terbium	159-2	5707238	5670449	5523657	5633782	1.72	cps
Thallium	203-1	7707136	7756959	7782622	7748906	0.50	cps
Thallium	205-1	18362304	18405259	18385863	18384476	0.12	cps
Tin	118-1	6338916	6363106	6397020	6366347	0.46	cps
Titanium	47-1	11836969	11986299	11841827	11888365	0.71	cps
Uranium	238-1	23767480	23794435	23468634	23676850	0.76	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 6020	Instrumnet Name :	P8
Client Sample ID :	LCSW 6020	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:18:53	DataFile Name :	052LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1171394	1168532	1169541	1169823	0.12	cps
Ytterbium	172-1	180	170	220	190	13.93	cps
Ytterbium	172-2	47	63	93	68	34.89	cps
Ytterbium	176-1	35381	34940	35073	35131	0.64	cps
Ytterbium	176-2	11685	11432	11282	11466	1.78	cps
Yttrium	89-1	24885010	24976685	24993033	24951576	0.23	cps
Yttrium	89-2	1748641	1747488	1677600	1724576	2.36	cps
Zinc	66-2	2325617	2296708	2319424	2313916	0.66	cps
Zirconium	90-1	13213168	13370200	13332635	13305334	0.62	cps
Zirconium	91-1	2932631	2981232	2970326	2961396	0.86	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	73	80	57	70	17.17	cps
Antimony	121-1	403	353	450	402	12.02	cps
Arsenic	75-2	7	0	7	4	86.60	cps
Barium	135-1	500	527	583	537	7.93	cps
Barium	137-1	993	920	927	947	4.28	cps
Beryllium	9-1	527	485	496	503	4.38	cps
Bismuth	209-1	11230549	11062875	11046399	11113274	0.92	cps
Bismuth	209-2	4115777	4251490	4169629	4178965	1.64	cps
Bromine	81-1	6778	6935	6632	6782	2.24	cps
Cadmium	108-1	50	40	23	38	35.67	cps
Cadmium	106-1	8032	7429	7469	7643	4.42	cps
Cadmium	111-1	1651	1498	1521	1557	5.33	cps
Calcium	43-1	633	643	620	632	1.85	cps
Calcium	44-1	12125	11435	11458	11673	3.36	cps
Carbon	12-1	2788785	2783739	2814406	2795643	0.59	cps
Carbon	12-2	18986	18325	18602	18637	1.78	cps
Chlorine	35-1	79580	81464	80821	80622	1.19	cps
Chlorine	35-2	310	340	270	307	11.45	cps
Chromium	52-2	533	487	537	519	5.39	cps
Cobalt	59-2	103	140	140	128	16.57	cps
Copper	63-2	2897	3004	3004	2968	2.08	cps
Dysprosium	156-1	23	63	37	41	49.54	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	63	93	100	86	22.83	cps
Erbium	164-2	33	17	30	27	33.06	cps
Gadolinium	160-1	53	63	60	59	8.65	cps
Gadolinium	160-2	17	13	37	22	56.80	cps
Holmium	165-1	17900964	17839860	17496084	17745636	1.23	cps
Holmium	165-2	5728600	5861873	5847613	5812695	1.26	cps
Indium	115-1	13956922	13862619	14081351	13966964	0.79	cps
Indium	115-2	1273180	1295824	1307732	1292245	1.36	cps
Iron	54-2	310	253	283	282	10.05	cps
Iron	56-2	3897	3874	3997	3923	1.67	cps
Iron	57-2	93	97	87	92	5.52	cps
Krypton	83-1	163	163	157	161	2.39	cps
Lead	206-1	2074	1944	1917	1978	4.24	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1853	1587	1610	1683	8.77	cps
Lead	208-1	8128	7518	7498	7714	4.64	cps
Lithium	6-1	7313643	7189777	7434275	7312565	1.67	cps
Magnesium	24-2	440	413	473	442	6.80	cps
Manganese	55-2	350	327	360	346	4.95	cps
Molybdenum	94-1	670	610	573	618	7.90	cps
Molybdenum	95-1	687	457	483	542	23.20	cps
Molybdenum	96-1	790	573	593	652	18.36	cps
Molybdenum	97-1	390	290	387	356	15.97	cps
Molybdenum	98-1	910	820	740	823	10.33	cps
Neodymium	150-1	30	43	37	37	18.18	cps
Neodymium	150-2	0	0	7	2	173.21	cps
Nickel	60-2	1083	1117	1240	1147	7.20	cps
Phosphorus	31-2	37	53	60	50	24.03	cps
Potassium	39-2	7719	7842	7979	7847	1.66	cps
Rhodium	103-1	12985354	12938882	12787146	12903794	0.80	cps
Rhodium	103-2	4639924	4721347	4693447	4684906	0.88	cps
Scandium	45-1	10140359	10014538	10072894	10075930	0.62	cps
Scandium	45-2	169552	170950	172049	170850	0.73	cps
Selenium	82-1	43	-23	67	29	161.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	3	3	3	0.00	cps
Silicon	28-1	418389	417805	418513	418236	0.09	cps
Silver	107-1	450	367	383	400	11.02	cps
Silver	109-1	370	297	307	324	12.26	cps
Sodium	23-2	24330	23890	23846	24022	1.12	cps
Strontium	86-1	347	323	317	329	4.79	cps
Strontium	88-1	720	603	557	627	13.43	cps
Sulfur	34-1	401606	403285	398993	401295	0.54	cps
Terbium	159-1	18133410	18205940	18282114	18207154	0.41	cps
Terbium	159-2	5660978	5676106	5724246	5687110	0.58	cps
Thallium	203-1	460	500	470	477	4.37	cps
Thallium	205-1	1270	1140	1057	1156	9.30	cps
Tin	118-1	1467	1540	1520	1509	2.51	cps
Titanium	47-1	250	243	187	227	15.35	cps
Uranium	238-1	290	153	190	211	33.51	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	PBW 200.8	Instrumnet Name :	P8
Client Sample ID :	PBW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:25:02	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	17	3	11	62.48	cps
Ytterbium	172-1	97	97	80	91	10.56	cps
Ytterbium	172-2	47	57	23	42	40.52	cps
Ytterbium	176-1	2167	2237	2127	2177	2.56	cps
Ytterbium	176-2	233	323	323	293	17.71	cps
Yttrium	89-1	25481575	25214476	25264640	25320230	0.56	cps
Yttrium	89-2	1726847	1739173	1766391	1744137	1.16	cps
Zinc	66-2	297	310	297	301	2.56	cps
Zirconium	90-1	867	910	943	907	4.24	cps
Zirconium	91-1	227	197	203	209	7.54	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3129654	3072354	3083276	3095095	0.98	cps
Antimony	121-1	6723582	6805094	6770940	6766539	0.60	cps
Arsenic	75-2	118926	118970	117085	118327	0.91	cps
Barium	135-1	8794446	8799591	8833975	8809337	0.24	cps
Barium	137-1	15275517	15352749	15269939	15299401	0.30	cps
Beryllium	9-1	2409047	2413596	2305812	2376152	2.57	cps
Bismuth	209-1	9411688	9236236	9053259	9233728	1.94	cps
Bismuth	209-2	3545113	3496386	3510795	3517431	0.71	cps
Bromine	81-1	6962	7512	7169	7214	3.85	cps
Cadmium	108-1	132880	132960	132576	132805	0.15	cps
Cadmium	106-1	190499	191060	191761	191106	0.33	cps
Cadmium	111-1	1599257	1643428	1636734	1626473	1.46	cps
Calcium	43-1	12684861	12869718	12818929	12791170	0.75	cps
Calcium	44-1	203611417	206382090	208186024	206059844	1.12	cps
Carbon	12-1	3312243	3376319	3438331	3375631	1.87	cps
Carbon	12-2	27492	27726	28137	27785	1.17	cps
Chlorine	35-1	93724	94623	95515	94621	0.95	cps
Chlorine	35-2	383	370	390	381	2.67	cps
Chromium	52-2	1459753	1451217	1481182	1464051	1.05	cps
Cobalt	59-2	2618177	2648951	2654848	2640659	0.75	cps
Copper	63-2	18563123	18472891	18684473	18573496	0.57	cps
Dysprosium	156-1	447	400	483	443	9.42	cps
Dysprosium	156-2	77	100	133	103	27.56	cps
Erbium	164-1	343	373	413	377	9.32	cps
Erbium	164-2	123	127	120	123	2.70	cps
Gadolinium	160-1	340	337	303	327	6.21	cps
Gadolinium	160-2	103	143	150	132	19.09	cps
Holmium	165-1	16768199	16781588	16492634	16680807	0.98	cps
Holmium	165-2	5590192	5537234	5557885	5561771	0.48	cps
Indium	115-1	12270579	12122164	11857262	12083335	1.73	cps
Indium	115-2	1161771	1149778	1142836	1151462	0.83	cps
Iron	54-2	14664839	14470199	14833679	14656239	1.24	cps
Iron	56-2	270863529	267565923	269543856	269324436	0.62	cps
Iron	57-2	6814913	6826548	6746037	6795833	0.64	cps
Krypton	83-1	230	190	227	216	10.30	cps
Lead	206-1	27190827	27518064	27761180	27490023	1.04	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23397495	23787657	23801119	23662090	0.97	cps
Lead	208-1	107225278	109469088	109376688	108690351	1.17	cps
Lithium	6-1	6470651	6299209	6197159	6322340	2.19	cps
Magnesium	24-2	52938313	52944673	52429169	52770718	0.56	cps
Manganese	55-2	6273103	6220224	6297306	6263544	0.63	cps
Molybdenum	94-1	25198336	25264867	25222972	25228725	0.13	cps
Molybdenum	95-1	36127001	36492677	36460486	36360055	0.56	cps
Molybdenum	96-1	39267022	39744909	39425459	39479130	0.62	cps
Molybdenum	97-1	22437900	22400471	22472631	22437001	0.16	cps
Molybdenum	98-1	58252224	57946664	58401667	58200185	0.40	cps
Neodymium	150-1	843	830	880	851	3.04	cps
Neodymium	150-2	33	43	63	47	32.74	cps
Nickel	60-2	714752	720463	723794	719670	0.64	cps
Phosphorus	31-2	26053	26518	26748	26440	1.34	cps
Potassium	39-2	15256694	14971701	15231738	15153377	1.04	cps
Rhodium	103-1	10781724	10530701	10494570	10602331	1.48	cps
Rhodium	103-2	4016684	3911667	3891469	3939940	1.71	cps
Scandium	45-1	9221044	9082998	9011575	9105206	1.17	cps
Scandium	45-2	164532	159218	162440	162063	1.65	cps
Selenium	82-1	102042	102952	102452	102482	0.44	cps
Selenium	77-2	1777	1760	1690	1742	2.64	cps
Selenium	78-2	5935	5868	5458	5753	4.49	cps
Silicon	28-1	19983653	19946361	19782280	19904098	0.54	cps
Silver	107-1	8453959	8566734	8493969	8504887	0.67	cps
Silver	109-1	8159013	8205373	8143554	8169313	0.39	cps
Sodium	23-2	103258278	103118088	103113432	103163266	0.08	cps
Strontium	86-1	2557056	2555661	2589158	2567292	0.74	cps
Strontium	88-1	21573327	21888389	21672201	21711306	0.74	cps
Sulfur	34-1	1079142	1058992	1056919	1065018	1.15	cps
Terbium	159-1	17059315	16974836	16846893	16960348	0.63	cps
Terbium	159-2	5425517	5374895	5320660	5373691	0.98	cps
Thallium	203-1	7062687	7140656	7030769	7078037	0.80	cps
Thallium	205-1	16936608	16987733	16907388	16943909	0.24	cps
Tin	118-1	5889205	5920990	5844215	5884803	0.66	cps
Titanium	47-1	11126979	11112587	11207989	11149185	0.46	cps
Uranium	238-1	22557222	22691706	22615840	22621589	0.30	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:28:23	DataFile Name :	055CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1103105	1093989	1095634	1097576	0.44	cps
Ytterbium	172-1	427	433	510	457	10.14	cps
Ytterbium	172-2	193	157	150	167	14.00	cps
Ytterbium	176-1	33863	34869	34064	34265	1.55	cps
Ytterbium	176-2	11568	11262	10931	11254	2.83	cps
Yttrium	89-1	23362970	23029474	23209190	23200545	0.72	cps
Yttrium	89-2	1676967	1640390	1628341	1648566	1.54	cps
Zinc	66-2	2002533	2013751	2020236	2012173	0.45	cps
Zirconium	90-1	12637929	12665203	12851905	12718346	0.92	cps
Zirconium	91-1	2823731	2803033	2850940	2825901	0.85	cps

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	140	187	163	163	14.29	cps
Antimony	121-1	1657	1493	1417	1522	8.05	cps
Arsenic	75-2	3	10	20	11	75.52	cps
Barium	135-1	1107	970	857	978	12.80	cps
Barium	137-1	1890	1467	1613	1657	12.98	cps
Beryllium	9-1	817	780	740	779	4.97	cps
Bismuth	209-1	10722955	11069892	10547171	10780006	2.47	cps
Bismuth	209-2	4216029	4188039	4300433	4234834	1.38	cps
Bromine	81-1	6822	7009	6938	6923	1.36	cps
Cadmium	108-1	60	37	50	49	23.94	cps
Cadmium	106-1	7626	8009	7786	7807	2.47	cps
Cadmium	111-1	1680	1716	1665	1687	1.55	cps
Calcium	43-1	1010	960	810	927	11.23	cps
Calcium	44-1	16713	15625	14234	15524	8.01	cps
Carbon	12-1	2926709	2895175	2889930	2903938	0.69	cps
Carbon	12-2	18869	19400	19066	19111	1.40	cps
Chlorine	35-1	77154	76799	76779	76911	0.27	cps
Chlorine	35-2	317	253	277	282	11.35	cps
Chromium	52-2	607	693	607	636	7.88	cps
Cobalt	59-2	157	163	203	174	14.47	cps
Copper	63-2	3721	3647	3590	3653	1.78	cps
Dysprosium	156-1	20	27	20	22	17.33	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Erbium	164-1	83	77	97	86	11.90	cps
Erbium	164-2	23	30	7	20	60.08	cps
Gadolinium	160-1	37	37	73	49	43.29	cps
Gadolinium	160-2	10	23	3	12	83.33	cps
Holmium	165-1	17361717	17870752	16942714	17391728	2.67	cps
Holmium	165-2	5919356	5827645	6098476	5948492	2.32	cps
Indium	115-1	13674823	14119444	13542969	13779078	2.19	cps
Indium	115-2	1306666	1299839	1338862	1315122	1.58	cps
Iron	54-2	620	683	673	659	5.17	cps
Iron	56-2	10157	10447	10117	10240	1.76	cps
Iron	57-2	280	270	300	283	5.39	cps
Krypton	83-1	163	177	160	167	5.29	cps
Lead	206-1	3714	3330	3050	3365	9.90	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3117	2944	2544	2868	10.25	cps
Lead	208-1	14256	13520	11972	13249	8.80	cps
Lithium	6-1	7359008	7431207	7078494	7289570	2.56	cps
Magnesium	24-2	1807	1807	1723	1779	2.71	cps
Manganese	55-2	387	370	440	399	9.17	cps
Molybdenum	94-1	1763	1493	1360	1539	13.35	cps
Molybdenum	95-1	2030	1637	1570	1746	14.24	cps
Molybdenum	96-1	2300	2140	1667	2036	16.18	cps
Molybdenum	97-1	1240	1033	1020	1098	11.24	cps
Molybdenum	98-1	3294	2767	2297	2786	17.90	cps
Neodymium	150-1	30	30	40	33	17.32	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1130	1230	1223	1195	4.68	cps
Phosphorus	31-2	37	50	67	51	29.41	cps
Potassium	39-2	8983	9206	8673	8954	2.99	cps
Rhodium	103-1	12876491	13267329	12325576	12823132	3.69	cps
Rhodium	103-2	4733179	4680023	4814514	4742572	1.43	cps
Scandium	45-1	9951943	10199277	9494468	9881896	3.62	cps
Scandium	45-2	170347	168986	176645	171993	2.38	cps
Selenium	82-1	20	13	87	40	101.39	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	0	7	4	86.60	cps
Silicon	28-1	402650	400358	399165	400724	0.44	cps
Silver	107-1	1203	1127	997	1109	9.42	cps
Silver	109-1	1153	920	813	962	18.07	cps
Sodium	23-2	32449	31494	31441	31795	1.79	cps
Strontium	86-1	397	363	413	391	6.51	cps
Strontium	88-1	1163	1037	913	1038	12.05	cps
Sulfur	34-1	400078	399828	403591	401165	0.52	cps
Terbium	159-1	18005938	18374499	17326116	17902185	2.97	cps
Terbium	159-2	5733863	5805580	5871037	5803493	1.18	cps
Thallium	203-1	1003	823	697	841	18.32	cps
Thallium	205-1	2397	2160	1990	2182	9.36	cps
Tin	118-1	1717	1593	1673	1661	3.77	cps
Titanium	47-1	623	470	417	503	21.32	cps
Uranium	238-1	837	713	547	699	20.83	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:31:10	DataFile Name :	056CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30	27	23	27	12.51	cps
Ytterbium	172-1	73	87	137	99	33.77	cps
Ytterbium	172-2	43	30	60	44	33.82	cps
Ytterbium	176-1	2274	2164	2210	2216	2.49	cps
Ytterbium	176-2	320	297	353	323	8.81	cps
Yttrium	89-1	24715820	26059162	24450020	25075000	3.44	cps
Yttrium	89-2	1742588	1757702	1804907	1768399	1.84	cps
Zinc	66-2	310	337	303	317	5.57	cps
Zirconium	90-1	1720	1747	1437	1635	10.51	cps
Zirconium	91-1	363	310	353	342	8.28	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	621794	626075	617944	621938	0.65	cps
Antimony	121-1	7316150	7433025	7459307	7402827	1.03	cps
Arsenic	75-2	130464	130426	129687	130192	0.34	cps
Barium	135-1	9456002	9426978	9462634	9448538	0.20	cps
Barium	137-1	16132885	16116650	16329038	16192857	0.73	cps
Beryllium	9-1	2534328	2558881	2596104	2563105	1.21	cps
Bismuth	209-1	10245676	10250054	10348539	10281423	0.57	cps
Bismuth	209-2	3924557	3998948	3994611	3972705	1.05	cps
Bromine	81-1	6915	7002	7182	7033	1.94	cps
Cadmium	108-1	144292	147934	148361	146862	1.52	cps
Cadmium	106-1	213432	215141	214978	214517	0.44	cps
Cadmium	111-1	1843646	1849686	1899057	1864130	1.63	cps
Calcium	43-1	2772646	2826522	2800373	2799847	0.96	cps
Calcium	44-1	44278008	44666763	44354988	44433253	0.46	cps
Carbon	12-1	3270318	3390765	3424818	3361967	2.41	cps
Carbon	12-2	24380	24227	24127	24245	0.53	cps
Chlorine	35-1	94643	95676	96519	95613	0.98	cps
Chlorine	35-2	363	477	383	408	14.84	cps
Chromium	52-2	1645371	1601431	1601284	1616029	1.57	cps
Cobalt	59-2	2974297	2971934	2914913	2953715	1.14	cps
Copper	63-2	21644716	21495892	21637451	21592686	0.39	cps
Dysprosium	156-1	203	220	170	198	12.87	cps
Dysprosium	156-2	30	53	13	32	62.36	cps
Erbium	164-1	200	177	170	182	8.64	cps
Erbium	164-2	60	50	77	62	21.65	cps
Gadolinium	160-1	117	190	137	148	25.65	cps
Gadolinium	160-2	43	43	33	40	14.43	cps
Holmium	165-1	17521043	17682077	17999480	17734200	1.37	cps
Holmium	165-2	5724481	5875837	5801378	5800565	1.30	cps
Indium	115-1	13343843	13301547	13360557	13335316	0.23	cps
Indium	115-2	1230647	1255500	1247921	1244689	1.02	cps
Iron	54-2	3290773	3295227	3241456	3275819	0.91	cps
Iron	56-2	59182701	58628981	58723242	58844975	0.50	cps
Iron	57-2	1496985	1493062	1502756	1497601	0.33	cps
Krypton	83-1	243	167	167	192	23.03	cps
Lead	206-1	29683247	30324088	30139950	30049095	1.10	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25668380	25866164	25702011	25745518	0.41	cps
Lead	208-1	117995674	118778621	118727156	118500484	0.37	cps
Lithium	6-1	6927303	6967367	6795716	6896795	1.30	cps
Magnesium	24-2	11299067	11151104	11258642	11236271	0.68	cps
Manganese	55-2	6846487	6808712	6755392	6803530	0.67	cps
Molybdenum	94-1	26627402	26776395	26567748	26657182	0.40	cps
Molybdenum	95-1	38444569	38777523	38666604	38629566	0.44	cps
Molybdenum	96-1	41690524	42190390	41811755	41897557	0.62	cps
Molybdenum	97-1	23104817	23912590	23490135	23502514	1.72	cps
Molybdenum	98-1	61159916	62005334	61163466	61442905	0.79	cps
Neodymium	150-1	820	777	743	780	4.93	cps
Neodymium	150-2	27	40	43	37	24.04	cps
Nickel	60-2	749663	748887	751433	749995	0.17	cps
Phosphorus	31-2	28471	28294	28194	28320	0.50	cps
Potassium	39-2	3290941	3237974	3227772	3252229	1.04	cps
Rhodium	103-1	11867064	12100291	12040836	12002730	1.01	cps
Rhodium	103-2	4391716	4466418	4486897	4448344	1.13	cps
Scandium	45-1	9839946	9776664	9982665	9866425	1.07	cps
Scandium	45-2	171314	172562	172212	172029	0.37	cps
Selenium	82-1	114404	115526	113721	114550	0.80	cps
Selenium	77-2	1887	1853	2000	1913	4.02	cps
Selenium	78-2	6752	6552	6542	6615	1.79	cps
Silicon	28-1	20778417	20574429	20436893	20596580	0.83	cps
Silver	107-1	9790480	9767139	9802251	9786623	0.18	cps
Silver	109-1	9264747	9305152	9292260	9287387	0.22	cps
Sodium	23-2	22255591	22164182	21977771	22132515	0.64	cps
Strontium	86-1	2708418	2749904	2726471	2728265	0.76	cps
Strontium	88-1	23347790	23340280	23239588	23309219	0.26	cps
Sulfur	34-1	1138755	1133281	1123587	1131874	0.68	cps
Terbium	159-1	17976618	17865466	17984125	17942070	0.37	cps
Terbium	159-2	5619973	5669774	5618039	5635929	0.52	cps
Thallium	203-1	7628874	7698731	7717867	7681824	0.61	cps
Thallium	205-1	18067306	18427825	18425783	18306971	1.13	cps
Tin	118-1	6287095	6352866	6273021	6304327	0.68	cps
Titanium	47-1	11811618	11956174	11996476	11921423	0.82	cps
Uranium	238-1	23576391	23785450	23686467	23682769	0.44	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	LCSW 200.8	Instrumnet Name :	P8
Client Sample ID :	LCSW 200.8	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:34:31	DataFile Name :	057LCSW.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1174260	1171779	1174064	1173367	0.12	cps
Ytterbium	172-1	143	193	170	169	14.81	cps
Ytterbium	172-2	80	67	50	66	22.93	cps
Ytterbium	176-1	35167	35123	35458	35249	0.52	cps
Ytterbium	176-2	11595	11195	11785	11525	2.62	cps
Yttrium	89-1	25033280	24744453	24846968	24874900	0.59	cps
Yttrium	89-2	1756235	1763246	1761350	1760277	0.21	cps
Zinc	66-2	2310334	2304642	2287376	2300784	0.52	cps
Zirconium	90-1	13418171	13235859	13293075	13315701	0.70	cps
Zirconium	91-1	3003885	2991460	3001283	2998876	0.22	cps

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On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3116217	3041620	3076242	3078026	1.21	cps
Antimony	121-1	6786436	6822474	6794912	6801274	0.28	cps
Arsenic	75-2	118906	117867	118130	118301	0.46	cps
Barium	135-1	8855881	8884134	8817464	8852493	0.38	cps
Barium	137-1	15164269	15242176	15122474	15176306	0.40	cps
Beryllium	9-1	2327418	2342815	2333138	2334457	0.33	cps
Bismuth	209-1	9215206	9076732	9243213	9178384	0.97	cps
Bismuth	209-2	3538372	3519035	3512904	3523437	0.38	cps
Bromine	81-1	7442	7082	7189	7237	2.56	cps
Cadmium	108-1	131513	132246	131480	131746	0.33	cps
Cadmium	106-1	190655	192661	192536	191951	0.59	cps
Cadmium	111-1	1634740	1608847	1654685	1632757	1.41	cps
Calcium	43-1	12549312	12985754	12919236	12818101	1.83	cps
Calcium	44-1	205159244	208732364	205281977	206391195	0.98	cps
Carbon	12-1	3360263	3451389	3539236	3450296	2.59	cps
Carbon	12-2	28240	27566	27626	27811	1.34	cps
Chlorine	35-1	91389	91570	92644	91868	0.74	cps
Chlorine	35-2	360	477	387	408	14.99	cps
Chromium	52-2	1463637	1480361	1462944	1468981	0.67	cps
Cobalt	59-2	2623942	2661538	2652387	2645956	0.74	cps
Copper	63-2	18797849	18599281	18612000	18669710	0.60	cps
Dysprosium	156-1	553	497	427	492	12.89	cps
Dysprosium	156-2	110	80	80	90	19.25	cps
Erbium	164-1	363	423	447	411	10.46	cps
Erbium	164-2	120	150	93	121	23.41	cps
Gadolinium	160-1	340	303	330	324	5.84	cps
Gadolinium	160-2	90	137	143	123	23.56	cps
Holmium	165-1	16472450	16773213	16559652	16601772	0.93	cps
Holmium	165-2	5568433	5582379	5519169	5556660	0.60	cps
Indium	115-1	12058760	11961763	12075581	12032035	0.51	cps
Indium	115-2	1153135	1151778	1148906	1151273	0.19	cps
Iron	54-2	14700543	14738530	14707817	14715630	0.14	cps
Iron	56-2	268306656	267505769	269366269	268392898	0.35	cps
Iron	57-2	6748274	6767826	6787347	6767816	0.29	cps
Krypton	83-1	257	260	213	243	10.70	cps
Lead	206-1	27318621	27405064	27399063	27374249	0.18	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23497750	23756010	23453730	23569163	0.69	cps
Lead	208-1	108152595	108539266	107956348	108216070	0.27	cps
Lithium	6-1	6224411	6224432	6211526	6220123	0.12	cps
Magnesium	24-2	52720334	51919959	52135974	52258756	0.79	cps
Manganese	55-2	6222689	6238377	6228676	6229914	0.13	cps
Molybdenum	94-1	24818423	24849205	25071360	24912996	0.55	cps
Molybdenum	95-1	36016401	36355435	36248711	36206849	0.48	cps
Molybdenum	96-1	39043386	39795593	39443360	39427446	0.95	cps
Molybdenum	97-1	22229842	22327679	22226560	22261360	0.26	cps
Molybdenum	98-1	57697514	57943897	58428311	58023241	0.64	cps
Neodymium	150-1	997	807	877	893	10.76	cps
Neodymium	150-2	50	57	53	53	6.25	cps
Nickel	60-2	716899	716604	725794	719766	0.73	cps
Phosphorus	31-2	26010	26287	26454	26250	0.85	cps
Potassium	39-2	15119752	15050157	15206551	15125486	0.52	cps
Rhodium	103-1	10691318	10717404	10750146	10719623	0.27	cps
Rhodium	103-2	3969601	3956422	3912507	3946177	0.76	cps
Scandium	45-1	9136807	9274923	9156933	9189554	0.81	cps
Scandium	45-2	161617	162851	163576	162681	0.61	cps
Selenium	82-1	102613	103211	102566	102797	0.35	cps
Selenium	77-2	1670	1607	1730	1669	3.70	cps
Selenium	78-2	5825	6128	6105	6019	2.81	cps
Silicon	28-1	19743762	19716232	19756831	19738942	0.10	cps
Silver	107-1	8517987	8618223	8497223	8544478	0.76	cps
Silver	109-1	8077346	8145429	8077219	8099998	0.49	cps
Sodium	23-2	103579128	101657585	102181705	102472806	0.97	cps
Strontium	86-1	2551791	2539435	2555229	2548818	0.33	cps
Strontium	88-1	21777216	21986380	21819871	21861156	0.51	cps
Sulfur	34-1	1070685	1072783	1043994	1062488	1.51	cps
Terbium	159-1	17042161	17009106	16811118	16954128	0.74	cps
Terbium	159-2	5370406	5403947	5404257	5392870	0.36	cps
Thallium	203-1	6950806	7055612	7064368	7023595	0.90	cps
Thallium	205-1	16930830	16357057	16862508	16716798	1.87	cps
Tin	118-1	5833248	5808668	5809165	5817027	0.24	cps
Titanium	47-1	11103694	10980776	11166360	11083610	0.85	cps
Uranium	238-1	22401559	22551239	22348126	22433641	0.47	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV009	Instrumnet Name :	P8
Client Sample ID :	CCV009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:37:30	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1090322	1096314	1094591	1093742	0.28	cps
Ytterbium	172-1	410	427	413	417	2.12	cps
Ytterbium	172-2	160	190	143	164	14.38	cps
Ytterbium	176-1	34345	34418	34111	34291	0.47	cps
Ytterbium	176-2	11085	11181	10931	11066	1.14	cps
Yttrium	89-1	23001860	23150457	23260965	23137761	0.56	cps
Yttrium	89-2	1640026	1661036	1624579	1641880	1.11	cps
Zinc	66-2	2028978	2008487	2023833	2020433	0.53	cps
Zirconium	90-1	12475028	12498056	12515311	12496131	0.16	cps
Zirconium	91-1	2827059	2842700	2804892	2824883	0.67	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	140	103	127	123	15.04	cps
Antimony	121-1	1883	1770	1507	1720	11.24	cps
Arsenic	75-2	7	7	3	6	34.70	cps
Barium	135-1	1413	1247	1250	1303	7.31	cps
Barium	137-1	2127	2234	2140	2167	2.68	cps
Beryllium	9-1	1112	1010	981	1034	6.67	cps
Bismuth	209-1	10686778	10516212	10571054	10591348	0.82	cps
Bismuth	209-2	4116901	4154135	4146941	4139326	0.48	cps
Bromine	81-1	6808	7182	7002	6997	2.67	cps
Cadmium	108-1	37	40	57	44	24.11	cps
Cadmium	106-1	7722	7365	7729	7605	2.73	cps
Cadmium	111-1	1645	1585	1639	1623	2.05	cps
Calcium	43-1	793	917	770	827	9.53	cps
Calcium	44-1	14895	15792	13273	14653	8.71	cps
Carbon	12-1	2966322	2941304	2889658	2932428	1.33	cps
Carbon	12-2	19159	19560	19249	19323	1.09	cps
Chlorine	35-1	74852	75713	74139	74901	1.05	cps
Chlorine	35-2	313	277	263	284	9.10	cps
Chromium	52-2	597	537	610	581	6.72	cps
Cobalt	59-2	177	160	170	169	4.97	cps
Copper	63-2	3430	3507	3347	3428	2.33	cps
Dysprosium	156-1	57	50	43	50	13.34	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	80	63	83	76	14.18	cps
Erbium	164-2	23	43	10	26	65.65	cps
Gadolinium	160-1	77	60	50	62	21.65	cps
Gadolinium	160-2	10	13	10	11	17.30	cps
Holmium	165-1	17173924	16960768	16990135	17041609	0.68	cps
Holmium	165-2	5818797	5820755	5828291	5822614	0.09	cps
Indium	115-1	13886254	13532747	13419566	13612856	1.79	cps
Indium	115-2	1287240	1287872	1287721	1287611	0.03	cps
Iron	54-2	580	550	483	538	9.20	cps
Iron	56-2	7919	8136	8126	8060	1.52	cps
Iron	57-2	207	173	210	197	10.31	cps
Krypton	83-1	137	153	197	162	19.09	cps
Lead	206-1	4087	4237	3711	4012	6.77	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3541	3611	3230	3461	5.85	cps
Lead	208-1	16631	16761	14463	15952	8.09	cps
Lithium	6-1	7146426	7200837	7179980	7175748	0.38	cps
Magnesium	24-2	1267	1277	1320	1288	2.20	cps
Manganese	55-2	357	360	367	361	1.41	cps
Molybdenum	94-1	1760	1917	1443	1707	14.13	cps
Molybdenum	95-1	2067	2077	1607	1917	14.01	cps
Molybdenum	96-1	2254	2530	1770	2185	17.61	cps
Molybdenum	97-1	1357	1163	1030	1183	13.88	cps
Molybdenum	98-1	3137	3377	2450	2988	16.10	cps
Neodymium	150-1	47	47	53	49	7.86	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1120	1283	1180	1195	6.92	cps
Phosphorus	31-2	47	87	63	66	30.65	cps
Potassium	39-2	9366	8836	8986	9063	3.02	cps
Rhodium	103-1	12678527	12518118	12441806	12546150	0.96	cps
Rhodium	103-2	4705139	4666598	4652753	4674830	0.58	cps
Scandium	45-1	9741647	9676315	9746700	9721554	0.40	cps
Scandium	45-2	169753	169587	166610	168650	1.05	cps
Selenium	82-1	23	43	13	27	57.29	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	10	10	7	9	21.63	cps
Silicon	28-1	414480	409941	408062	410828	0.80	cps
Silver	107-1	1313	1307	950	1190	17.47	cps
Silver	109-1	1163	1177	880	1073	15.61	cps
Sodium	23-2	34618	33328	33642	33863	1.99	cps
Strontium	86-1	397	423	397	406	3.80	cps
Strontium	88-1	1097	1043	1043	1061	2.90	cps
Sulfur	34-1	399232	396580	399871	398561	0.44	cps
Terbium	159-1	17557848	17472481	17449199	17493176	0.33	cps
Terbium	159-2	5760323	5652529	5648770	5687207	1.11	cps
Thallium	203-1	1110	1130	1027	1089	5.03	cps
Thallium	205-1	2697	2580	2410	2563	5.63	cps
Tin	118-1	1750	1790	1647	1729	4.28	cps
Titanium	47-1	477	647	417	513	23.24	cps
Uranium	238-1	833	897	563	764	23.16	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB009	Instrumnet Name :	P8
Client Sample ID :	CCB009	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 16:40:15	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	13	23	21	32.88	cps
Ytterbium	172-1	73	73	97	81	16.61	cps
Ytterbium	172-2	27	50	37	38	30.98	cps
Ytterbium	176-1	2337	2197	2227	2254	3.27	cps
Ytterbium	176-2	257	277	310	281	9.59	cps
Yttrium	89-1	24939845	24460742	24258378	24552988	1.43	cps
Yttrium	89-2	1761814	1765585	1748736	1758712	0.50	cps
Zinc	66-2	277	337	367	327	14.03	cps
Zirconium	90-1	1730	1803	1567	1700	7.13	cps
Zirconium	91-1	370	373	327	357	7.30	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8152	8162	8066	8127	0.65	cps
Antimony	121-1	4301	4144	3831	4092	5.85	cps
Arsenic	75-2	130	150	130	137	8.45	cps
Barium	135-1	27825	26750	25731	26769	3.91	cps
Barium	137-1	47523	46322	44948	46264	2.79	cps
Beryllium	9-1	880	742	724	782	10.91	cps
Bismuth	209-1	10081481	9844640	9238913	9721678	4.47	cps
Bismuth	209-2	3905378	3783837	3794619	3827945	1.76	cps
Bromine	81-1	8313	8543	8329	8395	1.53	cps
Cadmium	108-1	180	203	200	194	6.49	cps
Cadmium	106-1	7482	7229	6708	7140	5.53	cps
Cadmium	111-1	2841	2763	2492	2699	6.79	cps
Calcium	43-1	74351	72646	69965	72321	3.06	cps
Calcium	44-1	1289478	1229119	1142042	1220213	6.07	cps
Carbon	12-1	34862753	37214258	38479594	36852201	4.98	cps
Carbon	12-2	272048	276223	282453	276908	1.89	cps
Chlorine	35-1	4006329	4265109	4389088	4220176	4.63	cps
Chlorine	35-2	17761	18332	17851	17981	1.71	cps
Chromium	52-2	3801	3841	3811	3817	0.55	cps
Cobalt	59-2	2074	2030	2067	2057	1.13	cps
Copper	63-2	64931	64395	65289	64872	0.69	cps
Dysprosium	156-1	933	1013	1307	1085	18.15	cps
Dysprosium	156-2	287	283	283	284	0.68	cps
Erbium	164-1	1000	1033	970	1001	3.16	cps
Erbium	164-2	293	323	293	303	5.71	cps
Gadolinium	160-1	987	983	943	971	2.48	cps
Gadolinium	160-2	280	357	347	328	12.71	cps
Holmium	165-1	16867358	16146930	15196576	16070288	5.21	cps
Holmium	165-2	5665538	5356766	5438670	5486991	2.92	cps
Indium	115-1	13136357	12617497	11874572	12542809	5.06	cps
Indium	115-2	1223206	1178387	1175656	1192416	2.24	cps
Iron	54-2	58392	59748	57833	58657	1.68	cps
Iron	56-2	1076523	1072778	1074713	1074671	0.17	cps
Iron	57-2	27640	26982	26925	27183	1.46	cps
Krypton	83-1	207	183	173	188	9.11	cps
Lead	206-1	102454	97254	94393	98034	4.17	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	84953	80385	80079	81805	3.34	cps
Lead	208-1	397431	381192	368281	382301	3.82	cps
Lithium	6-1	6935222	6713511	6341485	6663406	4.50	cps
Magnesium	24-2	59203	59782	59708	59564	0.53	cps
Manganese	55-2	14067	13914	14371	14117	1.65	cps
Molybdenum	94-1	24879	23497	22528	23635	5.00	cps
Molybdenum	95-1	23647	23547	21867	23020	4.34	cps
Molybdenum	96-1	27888	25988	24776	26217	5.98	cps
Molybdenum	97-1	14411	14338	13867	14205	2.08	cps
Molybdenum	98-1	37785	36525	35248	36519	3.47	cps
Neodymium	150-1	1383	1217	1250	1283	6.87	cps
Neodymium	150-2	300	250	367	306	19.16	cps
Nickel	60-2	2490	2497	2414	2467	1.88	cps
Phosphorus	31-2	247	260	243	250	3.53	cps
Potassium	39-2	70866	70866	69523	70418	1.10	cps
Rhodium	103-1	12232545	11559089	10997381	11596338	5.33	cps
Rhodium	103-2	4368543	4205189	4254057	4275929	1.96	cps
Scandium	45-1	9790039	9237394	8678027	9235153	6.02	cps
Scandium	45-2	162934	158708	157307	159650	1.83	cps
Selenium	82-1	0	3	7	3	100.00	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	7	0	0	2	173.21	cps
Silicon	28-1	20215081	19490107	18946570	19550586	3.26	cps
Silver	107-1	1337	1413	1423	1391	3.41	cps
Silver	109-1	1270	1263	1353	1296	3.87	cps
Sodium	23-2	21491699	21246468	21246142	21328103	0.66	cps
Strontium	86-1	36802	35411	34469	35561	3.30	cps
Strontium	88-1	318089	303561	294565	305405	3.89	cps
Sulfur	34-1	483287	470447	459215	470983	2.56	cps
Terbium	159-1	17224193	16812060	15775518	16603924	4.50	cps
Terbium	159-2	5418509	5345953	5294985	5353149	1.16	cps
Thallium	203-1	760	777	683	740	6.73	cps
Thallium	205-1	1967	1770	1773	1837	6.13	cps
Tin	118-1	7485	6928	6875	7096	4.76	cps
Titanium	47-1	17387	16920	16059	16789	4.01	cps
Uranium	238-1	1327	1377	1243	1316	5.12	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-01DLX50	Instrumnet Name :	P8
Client Sample ID :	427	Dilution Factor :	50
Date & Time Acquired :	2025-01-20 16:43:40	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2600	2460	2504	2521	2.84	cps
Ytterbium	172-1	400	390	363	384	4.93	cps
Ytterbium	172-2	193	147	140	160	18.16	cps
Ytterbium	176-1	2297	2304	1877	2159	11.32	cps
Ytterbium	176-2	377	423	407	402	5.88	cps
Yttrium	89-1	24228165	22995248	21935501	23052971	4.98	cps
Yttrium	89-2	1674010	1583925	1612857	1623597	2.83	cps
Zinc	66-2	44697	43553	43985	44078	1.31	cps
Zirconium	90-1	31496	29625	28118	29746	5.69	cps
Zirconium	91-1	7065	6575	6538	6726	4.37	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	32633	33021	32566	32740	0.75	cps
Antimony	121-1	28677	28734	29899	29103	2.37	cps
Arsenic	75-2	417	357	397	390	7.83	cps
Barium	135-1	254376	255517	255198	255030	0.23	cps
Barium	137-1	440166	446310	448303	444926	0.95	cps
Beryllium	9-1	729	752	707	730	3.09	cps
Bismuth	209-1	10614561	10443858	10380632	10479684	1.15	cps
Bismuth	209-2	4201955	4046492	4172901	4140449	2.00	cps
Bromine	81-1	41204	48193	51722	47039	11.38	cps
Cadmium	108-1	1090	1137	1083	1103	2.63	cps
Cadmium	106-1	9176	8760	8840	8925	2.48	cps
Cadmium	111-1	11306	11537	11687	11510	1.67	cps
Calcium	43-1	551901	563981	566957	560946	1.42	cps
Calcium	44-1	9313092	9438674	9413357	9388374	0.71	cps
Carbon	12-1	58638269	60603004	61749871	60330381	2.61	cps
Carbon	12-2	411433	413319	408896	411216	0.54	cps
Chlorine	35-1	3285265	3543159	3731074	3519832	6.36	cps
Chlorine	35-2	14694	14180	14614	14496	1.91	cps
Chromium	52-2	22314	21830	22555	22233	1.66	cps
Cobalt	59-2	41343	41109	41895	41449	0.97	cps
Copper	63-2	325013	326413	322690	324705	0.58	cps
Dysprosium	156-1	1937	1977	2040	1985	2.63	cps
Dysprosium	156-2	663	643	590	632	6.00	cps
Erbium	164-1	1763	1927	1820	1837	4.52	cps
Erbium	164-2	663	667	507	612	14.93	cps
Gadolinium	160-1	1843	1820	1707	1790	4.08	cps
Gadolinium	160-2	723	727	700	717	2.03	cps
Holmium	165-1	17763861	17167368	17713740	17548323	1.89	cps
Holmium	165-2	6090200	5963374	5979482	6011019	1.15	cps
Indium	115-1	13791992	13534665	13418574	13581744	1.41	cps
Indium	115-2	1333485	1306753	1296685	1312308	1.45	cps
Iron	54-2	380442	379679	377343	379155	0.43	cps
Iron	56-2	7215007	7274625	7370761	7286798	1.08	cps
Iron	57-2	173293	175330	176062	174895	0.82	cps
Krypton	83-1	163	210	183	186	12.62	cps
Lead	206-1	278713	279996	280422	279710	0.32	cps

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	233904	235411	235832	235049	0.43	cps
Lead	208-1	1077621	1091329	1090633	1086527	0.71	cps
Lithium	6-1	7323951	7360990	7080330	7255091	2.10	cps
Magnesium	24-2	610205	614951	615426	613527	0.47	cps
Manganese	55-2	87637	87104	86812	87184	0.48	cps
Molybdenum	94-1	369086	375798	374142	373009	0.94	cps
Molybdenum	95-1	602022	602324	607724	604023	0.53	cps
Molybdenum	96-1	645086	649405	648884	647792	0.36	cps
Molybdenum	97-1	373704	379830	377270	376935	0.82	cps
Molybdenum	98-1	962648	978622	977510	972927	0.92	cps
Neodymium	150-1	2497	2684	2397	2526	5.76	cps
Neodymium	150-2	677	607	640	641	5.46	cps
Nickel	60-2	16243	16543	15896	16227	2.00	cps
Phosphorus	31-2	4631	4464	4941	4679	5.17	cps
Potassium	39-2	378742	380568	380617	379976	0.28	cps
Rhodium	103-1	12740274	12284595	12416085	12480318	1.88	cps
Rhodium	103-2	4754935	4656954	4651861	4687916	1.24	cps
Scandium	45-1	10210631	10137258	9893377	10080422	1.65	cps
Scandium	45-2	178359	173327	172329	174672	1.85	cps
Selenium	82-1	123	-23	40	47	157.62	cps
Selenium	77-2	3	17	0	7	132.33	cps
Selenium	78-2	7	13	10	10	33.30	cps
Silicon	28-1	66395057	65774082	66391801	66186980	0.54	cps
Silver	107-1	2760	2807	2864	2810	1.84	cps
Silver	109-1	2400	2550	2647	2532	4.91	cps
Sodium	23-2	22307759	22407363	22375531	22363551	0.23	cps
Strontium	86-1	145538	146659	146923	146373	0.50	cps
Strontium	88-1	1249493	1264193	1260146	1257944	0.60	cps
Sulfur	34-1	1078246	1062280	1085474	1075333	1.10	cps
Terbium	159-1	18326266	17919374	17785176	18010272	1.56	cps
Terbium	159-2	5955199	5817897	5785086	5852728	1.54	cps
Thallium	203-1	663	643	803	703	12.40	cps
Thallium	205-1	1633	1853	1757	1748	6.31	cps
Tin	118-1	37712	38655	37715	38027	1.43	cps
Titanium	47-1	50201	52713	51054	51322	2.49	cps
Uranium	238-1	4551	4688	4708	4649	1.83	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:46:57	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5935	5514	6028	5826	4.70	cps
Ytterbium	172-1	823	843	657	774	13.23	cps
Ytterbium	172-2	270	310	317	299	8.44	cps
Ytterbium	176-1	2914	2677	3027	2873	6.22	cps
Ytterbium	176-2	550	527	600	559	6.70	cps
Yttrium	89-1	25477315	24828464	24741016	25015599	1.61	cps
Yttrium	89-2	1819078	1749091	1777973	1782047	1.97	cps
Zinc	66-2	1017294	1021351	1016725	1018457	0.25	cps
Zirconium	90-1	77138	79146	78526	78270	1.31	cps
Zirconium	91-1	17014	17605	17778	17465	2.29	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	33696	33468	33245	33470	0.67	cps
Antimony	121-1	30467	29876	30380	30241	1.06	cps
Arsenic	75-2	393	413	370	392	5.53	cps
Barium	135-1	261285	266766	264478	264176	1.04	cps
Barium	137-1	460476	462997	462354	461942	0.28	cps
Beryllium	9-1	690	749	687	709	4.89	cps
Bismuth	209-1	10552644	10280622	10596071	10476446	1.63	cps
Bismuth	209-2	4042510	4087866	4111657	4080678	0.86	cps
Bromine	81-1	47303	54331	56724	52786	9.28	cps
Cadmium	108-1	1180	1153	1223	1186	2.98	cps
Cadmium	106-1	8793	9110	9136	9013	2.12	cps
Cadmium	111-1	11767	11739	12192	11899	2.14	cps
Calcium	43-1	581948	583810	584581	583446	0.23	cps
Calcium	44-1	9964938	9713252	9899312	9859167	1.32	cps
Carbon	12-1	56903126	59787921	61131744	59274264	3.65	cps
Carbon	12-2	417989	419989	416560	418179	0.41	cps
Chlorine	35-1	3371407	3609362	3720433	3567067	5.00	cps
Chlorine	35-2	14911	14250	14891	14684	2.56	cps
Chromium	52-2	23229	23463	23536	23409	0.69	cps
Cobalt	59-2	43586	42914	42537	43013	1.24	cps
Copper	63-2	333757	336292	337830	335960	0.61	cps
Dysprosium	156-1	2137	2217	1967	2107	6.06	cps
Dysprosium	156-2	633	637	637	636	0.30	cps
Erbium	164-1	1823	2044	1947	1938	5.69	cps
Erbium	164-2	693	633	653	660	4.63	cps
Gadolinium	160-1	1984	1930	1987	1967	1.62	cps
Gadolinium	160-2	727	723	680	710	3.67	cps
Holmium	165-1	17866271	17304471	17691352	17620698	1.63	cps
Holmium	165-2	5893367	5995201	5882579	5923716	1.05	cps
Indium	115-1	13759897	13491591	13877844	13709777	1.44	cps
Indium	115-2	1303636	1306280	1304674	1304863	0.10	cps
Iron	54-2	392723	394181	390523	392476	0.47	cps
Iron	56-2	7580907	7462180	7405063	7482716	1.20	cps
Iron	57-2	179319	180132	180041	179831	0.25	cps
Krypton	83-1	117	163	153	144	17.01	cps
Lead	206-1	286949	291423	290178	289516	0.80	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	241554	241660	246671	243295	1.20	cps
Lead	208-1	1117513	1128491	1134587	1126864	0.77	cps
Lithium	6-1	7237406	7014725	7320769	7190967	2.20	cps
Magnesium	24-2	638777	633775	633468	635340	0.47	cps
Manganese	55-2	89095	90652	88596	89448	1.20	cps
Molybdenum	94-1	384947	392905	389686	389179	1.03	cps
Molybdenum	95-1	623234	639447	626343	629674	1.37	cps
Molybdenum	96-1	669542	683605	670252	674466	1.17	cps
Molybdenum	97-1	390675	393066	393032	392258	0.35	cps
Molybdenum	98-1	997709	1014680	1013277	1008555	0.93	cps
Neodymium	150-1	2690	2827	2567	2695	4.83	cps
Neodymium	150-2	760	677	653	697	8.05	cps
Nickel	60-2	16944	17080	16750	16925	0.98	cps
Phosphorus	31-2	4811	4761	4814	4795	0.62	cps
Potassium	39-2	395951	392767	392756	393825	0.47	cps
Rhodium	103-1	12554701	12437305	12735477	12575828	1.19	cps
Rhodium	103-2	4678185	4678902	4672251	4676446	0.08	cps
Scandium	45-1	10203684	9915060	10317309	10145351	2.04	cps
Scandium	45-2	173108	175194	173307	173870	0.66	cps
Selenium	82-1	77	100	117	98	20.55	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	13	7	3	8	65.47	cps
Silicon	28-1	68026029	68308304	67411891	67915408	0.67	cps
Silver	107-1	2737	2774	2870	2794	2.47	cps
Silver	109-1	2400	2534	2760	2565	7.10	cps
Sodium	23-2	23325765	23250493	23029948	23202069	0.66	cps
Strontium	86-1	152356	154034	151514	152635	0.84	cps
Strontium	88-1	1300981	1323932	1328025	1317646	1.11	cps
Sulfur	34-1	1107863	1115896	1086125	1103295	1.40	cps
Terbium	159-1	18376965	17826554	18016310	18073276	1.55	cps
Terbium	159-2	5853409	5871074	5767385	5830623	0.95	cps
Thallium	203-1	653	820	630	701	14.78	cps
Thallium	205-1	1673	1710	1690	1691	1.09	cps
Tin	118-1	38812	39343	39764	39306	1.21	cps
Titanium	47-1	51796	53091	53221	52703	1.49	cps
Uranium	238-1	4681	4821	4861	4788	1.98	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:50:15	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	6271	6298	6288	6286	0.21	cps
Ytterbium	172-1	753	847	797	799	5.85	cps
Ytterbium	172-2	270	287	310	289	6.95	cps
Ytterbium	176-1	3004	2904	2960	2956	1.70	cps
Ytterbium	176-2	603	533	600	579	6.82	cps
Yttrium	89-1	25605833	25158228	25919182	25561081	1.50	cps
Yttrium	89-2	1748754	1774608	1800566	1774643	1.46	cps
Zinc	66-2	1046726	1059430	1057020	1054392	0.64	cps
Zirconium	90-1	79441	82430	81576	81149	1.90	cps
Zirconium	91-1	17912	18092	17855	17953	0.69	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6755	6642	6952	6783	2.31	cps
Antimony	121-1	6278	6438	6332	6349	1.28	cps
Arsenic	75-2	83	83	103	90	12.83	cps
Barium	135-1	53967	53575	54111	53884	0.51	cps
Barium	137-1	94315	94118	95108	94513	0.55	cps
Beryllium	9-1	596	600	559	585	3.90	cps
Bismuth	209-1	10625584	11146858	10923834	10898759	2.40	cps
Bismuth	209-2	4263632	4251411	4286360	4267134	0.42	cps
Bromine	81-1	19220	19998	19741	19653	2.02	cps
Cadmium	108-1	287	210	283	260	16.67	cps
Cadmium	106-1	7852	8189	8136	8059	2.25	cps
Cadmium	111-1	3477	3711	3686	3624	3.55	cps
Calcium	43-1	118066	117924	117706	117899	0.15	cps
Calcium	44-1	2028629	2035159	2008798	2024195	0.68	cps
Carbon	12-1	15464404	15518691	15484441	15489179	0.18	cps
Carbon	12-2	101067	101655	101652	101458	0.33	cps
Chlorine	35-1	918218	940918	938569	932568	1.34	cps
Chlorine	35-2	3694	3761	3620	3692	1.90	cps
Chromium	52-2	5194	5161	5191	5182	0.35	cps
Cobalt	59-2	8930	8886	8743	8853	1.10	cps
Copper	63-2	89107	88920	89701	89243	0.46	cps
Dysprosium	156-1	467	413	463	448	6.67	cps
Dysprosium	156-2	137	127	140	134	5.16	cps
Erbium	164-1	440	520	397	452	13.84	cps
Erbium	164-2	143	97	173	138	28.04	cps
Gadolinium	160-1	377	433	423	411	7.36	cps
Gadolinium	160-2	153	170	143	156	8.66	cps
Holmium	165-1	17094307	18550168	18053788	17899421	4.13	cps
Holmium	165-2	6086432	6096111	5979925	6054156	1.06	cps
Indium	115-1	13744651	14375029	14059897	14059859	2.24	cps
Indium	115-2	1338713	1339711	1336455	1338293	0.12	cps
Iron	54-2	79972	81179	78956	80036	1.39	cps
Iron	56-2	1543438	1538930	1560189	1547519	0.72	cps
Iron	57-2	37402	36667	37476	37182	1.20	cps
Krypton	83-1	173	207	177	186	9.89	cps
Lead	206-1	60323	61019	60530	60624	0.59	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	51006	50528	50976	50837	0.53	cps
Lead	208-1	233896	236067	235197	235053	0.46	cps
Lithium	6-1	7190048	7392489	7231553	7271363	1.47	cps
Magnesium	24-2	127195	128096	128446	127913	0.50	cps
Manganese	55-2	18422	18289	18242	18317	0.51	cps
Molybdenum	94-1	78520	79143	78382	78682	0.52	cps
Molybdenum	95-1	126718	126687	127188	126864	0.22	cps
Molybdenum	96-1	135749	134837	135934	135507	0.43	cps
Molybdenum	97-1	78239	79184	77897	78440	0.85	cps
Molybdenum	98-1	205732	204545	203077	204452	0.65	cps
Neodymium	150-1	550	550	620	573	7.05	cps
Neodymium	150-2	167	157	123	149	15.24	cps
Nickel	60-2	5241	5021	5091	5118	2.20	cps
Phosphorus	31-2	997	1007	1013	1006	0.83	cps
Potassium	39-2	84934	85914	84680	85176	0.76	cps
Rhodium	103-1	12496829	13279685	13048231	12941582	3.11	cps
Rhodium	103-2	4818365	4810908	4804748	4811340	0.14	cps
Scandium	45-1	9972546	10387763	10232146	10197485	2.06	cps
Scandium	45-2	175372	176266	176455	176031	0.33	cps
Selenium	82-1	-3	-3	17	3	346.50	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	10	27	12	110.23	cps
Silicon	28-1	14169159	14094765	14096022	14119982	0.30	cps
Silver	107-1	763	743	800	769	3.74	cps
Silver	109-1	590	663	657	637	6.37	cps
Sodium	23-2	4689566	4683652	4676808	4683342	0.14	cps
Strontium	86-1	30724	30961	30971	30885	0.45	cps
Strontium	88-1	267136	265122	263934	265397	0.61	cps
Sulfur	34-1	549966	551699	551137	550934	0.16	cps
Terbium	159-1	18029238	18579958	18371380	18326859	1.52	cps
Terbium	159-2	5854084	5893446	5994543	5914025	1.23	cps
Thallium	203-1	570	560	573	568	1.22	cps
Thallium	205-1	1307	1457	1417	1393	5.58	cps
Tin	118-1	9130	8953	9213	9099	1.46	cps
Titanium	47-1	10521	10884	10921	10775	2.05	cps
Uranium	238-1	1030	977	1037	1014	3.24	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03LDLX25	Instrumnet Name :	P8
Client Sample ID :	429L	Dilution Factor :	25
Date & Time Acquired :	2025-01-20 16:53:30	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1217	1260	1173	1217	3.56	cps
Ytterbium	172-1	247	217	230	231	6.50	cps
Ytterbium	172-2	87	120	107	104	16.06	cps
Ytterbium	176-1	2467	2370	2267	2368	4.22	cps
Ytterbium	176-2	363	363	393	373	4.64	cps
Yttrium	89-1	24705820	26132746	25714252	25517606	2.87	cps
Yttrium	89-2	1807684	1801597	1760669	1789984	1.43	cps
Zinc	66-2	213551	214636	214817	214335	0.32	cps
Zirconium	90-1	16086	17091	16910	16696	3.21	cps
Zirconium	91-1	3597	3457	3654	3569	2.84	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	193489	190763	190011	191421	0.96	cps
Antimony	121-1	5852234	5951570	5969624	5924476	1.07	cps
Arsenic	75-2	108759	108484	108416	108553	0.17	cps
Barium	135-1	2841340	2841770	2861328	2848146	0.40	cps
Barium	137-1	4800981	4827785	4930897	4853221	1.41	cps
Beryllium	9-1	1982115	2034260	2028458	2014944	1.42	cps
Bismuth	209-1	10570898	10521489	10542773	10545054	0.24	cps
Bismuth	209-2	4066262	4071269	4061945	4066492	0.11	cps
Bromine	81-1	40910	45366	48296	44857	8.29	cps
Cadmium	108-1	110696	113303	112097	112032	1.16	cps
Cadmium	106-1	172908	175544	175902	174784	0.94	cps
Cadmium	111-1	1378585	1389897	1412752	1393745	1.25	cps
Calcium	43-1	1114569	1127281	1132110	1124653	0.81	cps
Calcium	44-1	18768225	18772173	18937290	18825896	0.51	cps
Carbon	12-1	50173711	52986721	54673721	52611384	4.32	cps
Carbon	12-2	372344	370154	374819	372439	0.63	cps
Chlorine	35-1	2919646	3259320	3432296	3203754	8.14	cps
Chlorine	35-2	13273	14350	14090	13905	4.04	cps
Chromium	52-2	1138941	1151104	1151165	1147070	0.61	cps
Cobalt	59-2	2377405	2368040	2409765	2385070	0.92	cps
Copper	63-2	5354856	5284276	5279985	5306372	0.79	cps
Dysprosium	156-1	1950	1923	1977	1950	1.37	cps
Dysprosium	156-2	607	587	590	594	1.80	cps
Erbium	164-1	1743	1810	1837	1797	2.68	cps
Erbium	164-2	583	537	627	582	7.73	cps
Gadolinium	160-1	1713	1800	1743	1752	2.51	cps
Gadolinium	160-2	680	720	647	682	5.38	cps
Holmium	165-1	18089988	17729755	17645088	17821610	1.33	cps
Holmium	165-2	5856682	5856479	5888878	5867346	0.32	cps
Indium	115-1	13895258	13521337	13793886	13736827	1.41	cps
Indium	115-2	1280505	1288023	1286312	1284947	0.31	cps
Iron	54-2	1218941	1227475	1232303	1226240	0.55	cps
Iron	56-2	22762476	23165594	23016977	22981682	0.89	cps
Iron	57-2	547855	557678	552137	552557	0.89	cps
Krypton	83-1	187	207	200	198	5.15	cps
Lead	206-1	6281666	6419671	6471174	6390837	1.53	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5486416	5510205	5479861	5492161	0.29	cps
Lead	208-1	24955077	25208399	25238125	25133867	0.62	cps
Lithium	6-1	7255247	7150714	7147209	7184390	0.85	cps
Magnesium	24-2	2972420	2913987	2928427	2938278	1.04	cps
Manganese	55-2	1381516	1424517	1416475	1407503	1.62	cps
Molybdenum	94-1	7676970	7899560	7879050	7818527	1.57	cps
Molybdenum	95-1	6760182	6870733	6814116	6815010	0.81	cps
Molybdenum	96-1	7814738	7978163	7958869	7917257	1.13	cps
Molybdenum	97-1	4160996	4298878	4236714	4232196	1.63	cps
Molybdenum	98-1	10858616	11115774	11004819	10993070	1.17	cps
Neodymium	150-1	2684	2630	2630	2648	1.16	cps
Neodymium	150-2	503	660	630	598	13.91	cps
Nickel	60-2	597896	599356	596361	597871	0.25	cps
Phosphorus	31-2	4544	4131	4524	4400	5.30	cps
Potassium	39-2	1197439	1201741	1278536	1225905	3.72	cps
Rhodium	103-1	12957982	12625886	12659514	12747794	1.43	cps
Rhodium	103-2	4552917	4571540	4579364	4567940	0.30	cps
Scandium	45-1	10283317	10091322	9919453	10098031	1.80	cps
Scandium	45-2	173223	172481	172401	172702	0.26	cps
Selenium	82-1	90980	93235	93772	92663	1.60	cps
Selenium	77-2	1643	1540	1437	1540	6.71	cps
Selenium	78-2	5488	5311	5321	5373	1.85	cps
Silicon	28-1	65415512	65533947	66582694	65844051	0.98	cps
Silver	107-1	13767	13657	14101	13841	1.67	cps
Silver	109-1	4427	4431	4434	4431	0.08	cps
Sodium	23-2	26057740	26132865	25864650	26018418	0.53	cps
Strontium	86-1	2218076	2212313	2208214	2212868	0.22	cps
Strontium	88-1	18615343	18564129	18590362	18589945	0.14	cps
Sulfur	34-1	1038489	1046420	1040973	1041961	0.39	cps
Terbium	159-1	18737511	18085866	18148242	18323873	1.96	cps
Terbium	159-2	5757841	5713205	5711563	5727537	0.46	cps
Thallium	203-1	5844428	6058671	6019541	5974213	1.91	cps
Thallium	205-1	13755373	14098150	14170052	14007858	1.58	cps
Tin	118-1	1726608	1679376	1736369	1714117	1.78	cps
Titanium	47-1	1307459	1323129	1318957	1316515	0.62	cps
Uranium	238-1	18464546	18436206	18431799	18444183	0.10	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:56:49	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	920109	923830	931481	925140	0.63	cps
Ytterbium	172-1	813	733	660	736	10.43	cps
Ytterbium	172-2	330	253	323	302	14.05	cps
Ytterbium	176-1	15362	15296	15396	15351	0.33	cps
Ytterbium	176-2	4814	4641	4861	4772	2.43	cps
Yttrium	89-1	26017337	25639171	25421660	25692723	1.17	cps
Yttrium	89-2	1773850	1733402	1763295	1756849	1.19	cps
Zinc	66-2	1416246	1409972	1409093	1411770	0.28	cps
Zirconium	90-1	10902131	10941032	11014249	10952470	0.52	cps
Zirconium	91-1	2450061	2482731	2486803	2473198	0.81	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	194448	198339	194266	195684	1.18	cps
Antimony	121-1	6021780	6135190	6124830	6093934	1.03	cps
Arsenic	75-2	108802	110153	108796	109250	0.72	cps
Barium	135-1	2862959	2933717	2864196	2886957	1.40	cps
Barium	137-1	4894182	4981325	4910097	4928535	0.94	cps
Beryllium	9-1	2081416	2010311	2014070	2035265	1.97	cps
Bismuth	209-1	10445969	10471318	10485390	10467559	0.19	cps
Bismuth	209-2	4017260	4062813	4009158	4029744	0.72	cps
Bromine	81-1	43414	47507	50002	46974	7.08	cps
Cadmium	108-1	112084	115264	113395	113581	1.41	cps
Cadmium	106-1	175352	180183	180527	178687	1.62	cps
Cadmium	111-1	1393392	1413459	1418509	1408453	0.94	cps
Calcium	43-1	1131062	1143249	1139259	1137857	0.55	cps
Calcium	44-1	18953270	19183589	19203857	19113572	0.73	cps
Carbon	12-1	50356868	54165218	54756574	53092886	4.50	cps
Carbon	12-2	376827	380557	379755	379046	0.52	cps
Chlorine	35-1	3062979	3375419	3562930	3333776	7.58	cps
Chlorine	35-2	14080	14301	14330	14237	0.96	cps
Chromium	52-2	1165160	1170337	1162794	1166097	0.33	cps
Cobalt	59-2	2428926	2431701	2369460	2410029	1.46	cps
Copper	63-2	5406427	5474834	5409033	5430098	0.71	cps
Dysprosium	156-1	2060	1943	2050	2018	3.21	cps
Dysprosium	156-2	617	580	593	597	3.11	cps
Erbium	164-1	1820	1820	1833	1825	0.42	cps
Erbium	164-2	567	517	593	559	6.96	cps
Gadolinium	160-1	1680	1723	1827	1743	4.32	cps
Gadolinium	160-2	763	677	697	712	6.37	cps
Holmium	165-1	17553551	17758260	17762337	17691383	0.67	cps
Holmium	165-2	5989548	6041029	5882949	5971175	1.35	cps
Indium	115-1	13658165	13606329	13683363	13649286	0.29	cps
Indium	115-2	1287940	1300314	1284809	1291021	0.64	cps
Iron	54-2	1245808	1258250	1249454	1251171	0.51	cps
Iron	56-2	23063245	23369270	23233848	23222121	0.66	cps
Iron	57-2	555188	564164	559335	559562	0.80	cps
Krypton	83-1	227	173	200	200	13.33	cps
Lead	206-1	6383197	6633828	6555334	6524120	1.96	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5526156	5607833	5658349	5597446	1.19	cps
Lead	208-1	25219517	25918252	25743973	25627247	1.42	cps
Lithium	6-1	7048383	7137161	6980649	7055398	1.11	cps
Magnesium	24-2	3011813	2994060	2980029	2995301	0.53	cps
Manganese	55-2	1410457	1437053	1433815	1427109	1.02	cps
Molybdenum	94-1	7827709	7954621	8050946	7944425	1.41	cps
Molybdenum	95-1	6851004	6951347	7074674	6959008	1.61	cps
Molybdenum	96-1	8034701	8127130	8114809	8092213	0.62	cps
Molybdenum	97-1	4294571	4343815	4374141	4337509	0.93	cps
Molybdenum	98-1	10957647	11446809	11424773	11276409	2.45	cps
Neodymium	150-1	2804	2904	2670	2793	4.19	cps
Neodymium	150-2	537	550	620	569	7.87	cps
Nickel	60-2	601251	607846	603403	604167	0.56	cps
Phosphorus	31-2	4487	4641	4604	4577	1.75	cps
Potassium	39-2	1230251	1285478	1284087	1266605	2.49	cps
Rhodium	103-1	12489304	12436366	12513843	12479838	0.32	cps
Rhodium	103-2	4680425	4640921	4483011	4601452	2.27	cps
Scandium	45-1	10271191	10138380	10033190	10147587	1.18	cps
Scandium	45-2	175878	177980	175322	176394	0.79	cps
Selenium	82-1	92987	95889	95453	94777	1.65	cps
Selenium	77-2	1453	1503	1743	1567	9.90	cps
Selenium	78-2	5374	5681	5101	5386	5.39	cps
Silicon	28-1	66300256	67149697	66762331	66737428	0.64	cps
Silver	107-1	13640	13860	14351	13950	2.61	cps
Silver	109-1	4327	4344	4484	4385	1.96	cps
Sodium	23-2	26565633	26449697	26489806	26501712	0.22	cps
Strontium	86-1	2204056	2229410	2227611	2220359	0.64	cps
Strontium	88-1	18914236	18898733	18830213	18881060	0.24	cps
Sulfur	34-1	1039185	1061783	1050195	1050388	1.08	cps
Terbium	159-1	18463910	18150363	18069348	18227874	1.14	cps
Terbium	159-2	5848007	5721709	5861128	5810282	1.32	cps
Thallium	203-1	5971008	6150596	6064418	6062007	1.48	cps
Thallium	205-1	14209485	14405385	14342627	14319166	0.70	cps
Tin	118-1	1755722	1762352	1724287	1747454	1.16	cps
Titanium	47-1	1329744	1355841	1346647	1344077	0.98	cps
Uranium	238-1	18708269	19080493	18649727	18812830	1.24	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	429	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 16:59:41	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	942460	950008	936123	942864	0.74	cps
Ytterbium	172-1	693	677	643	671	3.79	cps
Ytterbium	172-2	280	323	277	293	8.88	cps
Ytterbium	176-1	15322	15222	15790	15445	1.96	cps
Ytterbium	176-2	5094	4818	4941	4951	2.80	cps
Yttrium	89-1	25209147	25117011	25482349	25269502	0.75	cps
Yttrium	89-2	1766028	1791993	1776903	1778308	0.73	cps
Zinc	66-2	1430487	1507962	1498481	1478977	2.86	cps
Zirconium	90-1	10835346	11210808	11302037	11116064	2.23	cps
Zirconium	91-1	2453002	2496432	2540332	2496589	1.75	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	194788	193901	193597	194095	0.32	cps
Antimony	121-1	6067023	6086215	6065797	6073012	0.19	cps
Arsenic	75-2	109064	109064	109978	109369	0.48	cps
Barium	135-1	2881890	2862637	2841842	2862123	0.70	cps
Barium	137-1	4861392	4924663	4865602	4883885	0.72	cps
Beryllium	9-1	2040607	2063094	2063349	2055684	0.64	cps
Bismuth	209-1	10365895	10437193	10296668	10366585	0.68	cps
Bismuth	209-2	4050651	4036932	4094311	4060631	0.74	cps
Bromine	81-1	43822	47657	49811	47097	6.44	cps
Cadmium	108-1	111816	114312	113418	113182	1.12	cps
Cadmium	106-1	178883	178964	177229	178359	0.55	cps
Cadmium	111-1	1400635	1420581	1415636	1412284	0.74	cps
Calcium	43-1	1128226	1144592	1143629	1138816	0.81	cps
Calcium	44-1	18941846	19119345	19117836	19059676	0.54	cps
Carbon	12-1	51567513	53992583	54964678	53508258	3.27	cps
Carbon	12-2	380326	383298	387678	383767	0.96	cps
Chlorine	35-1	3112705	3391295	3579874	3361292	6.99	cps
Chlorine	35-2	14344	13927	14654	14308	2.55	cps
Chromium	52-2	1166071	1155606	1159093	1160257	0.46	cps
Cobalt	59-2	2439349	2397789	2384839	2407326	1.18	cps
Copper	63-2	5419754	5424653	5382900	5409102	0.42	cps
Dysprosium	156-1	2094	2024	1850	1989	6.30	cps
Dysprosium	156-2	610	570	553	578	5.04	cps
Erbium	164-1	1727	1710	1927	1788	6.74	cps
Erbium	164-2	597	580	517	564	7.48	cps
Gadolinium	160-1	1707	1893	1833	1811	5.26	cps
Gadolinium	160-2	703	697	753	718	4.31	cps
Holmium	165-1	17557022	17728451	17467873	17584449	0.75	cps
Holmium	165-2	5975732	5958147	5957057	5963645	0.18	cps
Indium	115-1	13561630	13689953	13381937	13544506	1.14	cps
Indium	115-2	1293396	1293642	1305818	1297619	0.55	cps
Iron	54-2	1241431	1248900	1252007	1247446	0.44	cps
Iron	56-2	23416956	23281341	23115773	23271357	0.65	cps
Iron	57-2	557548	561219	557179	558649	0.40	cps
Krypton	83-1	190	200	147	179	15.85	cps
Lead	206-1	6519903	6508788	6498716	6509135	0.16	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5571108	5569066	5664632	5601602	0.97	cps
Lead	208-1	25379650	25559685	25805476	25581604	0.84	cps
Lithium	6-1	7215099	7216059	7094864	7175341	0.97	cps
Magnesium	24-2	3037710	2994914	2978155	3003593	1.02	cps
Manganese	55-2	1432782	1422258	1426832	1427291	0.37	cps
Molybdenum	94-1	7804093	7957209	7940727	7900676	1.06	cps
Molybdenum	95-1	6860345	6791263	6859266	6836958	0.58	cps
Molybdenum	96-1	7989794	8064540	8073472	8042602	0.57	cps
Molybdenum	97-1	4213068	4275914	4278742	4255908	0.87	cps
Molybdenum	98-1	11177610	11181866	11162650	11174042	0.09	cps
Neodymium	150-1	2624	2797	2687	2703	3.25	cps
Neodymium	150-2	583	630	653	622	5.73	cps
Nickel	60-2	603104	598244	604871	602073	0.57	cps
Phosphorus	31-2	4507	4704	4594	4602	2.14	cps
Potassium	39-2	1215262	1282969	1288395	1262209	3.23	cps
Rhodium	103-1	12401661	12426287	12290209	12372719	0.59	cps
Rhodium	103-2	4641481	4685343	4592421	4639749	1.00	cps
Scandium	45-1	10044488	9991984	9916057	9984176	0.65	cps
Scandium	45-2	175224	173638	177411	175424	1.08	cps
Selenium	82-1	93450	93255	94825	93843	0.91	cps
Selenium	77-2	1570	1477	1610	1552	4.41	cps
Selenium	78-2	5124	5418	5501	5348	3.70	cps
Silicon	28-1	65993316	67300482	67819994	67037931	1.40	cps
Silver	107-1	14361	14187	14007	14185	1.25	cps
Silver	109-1	4617	4351	4357	4442	3.42	cps
Sodium	23-2	26387210	26178009	26412993	26326070	0.49	cps
Strontium	86-1	2213157	2260359	2244576	2239364	1.07	cps
Strontium	88-1	18806049	18886167	18979935	18890717	0.46	cps
Sulfur	34-1	1047776	1066299	1052551	1055542	0.91	cps
Terbium	159-1	18200409	17981296	17734314	17972006	1.30	cps
Terbium	159-2	5737366	5718260	5763991	5739873	0.40	cps
Thallium	203-1	6015162	6067369	6103451	6061994	0.73	cps
Thallium	205-1	14342491	14387546	14381729	14370589	0.17	cps
Tin	118-1	1723388	1744601	1726373	1731454	0.66	cps
Titanium	47-1	1325636	1346153	1346954	1339581	0.90	cps
Uranium	238-1	18471213	18763791	19165362	18800122	1.85	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1092-03ADLX5	Instrumnet Name :	P8
Client Sample ID :	429A	Dilution Factor :	5
Date & Time Acquired :	2025-01-20 17:02:34	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	935245	931874	936711	934610	0.27	cps
Ytterbium	172-1	693	813	643	717	12.19	cps
Ytterbium	172-2	310	310	330	317	3.65	cps
Ytterbium	176-1	15503	15816	15910	15743	1.35	cps
Ytterbium	176-2	4881	5024	4924	4943	1.49	cps
Yttrium	89-1	25652838	25207337	24986899	25282358	1.34	cps
Yttrium	89-2	1776479	1830041	1770531	1792350	1.83	cps
Zinc	66-2	1437007	1420408	1424326	1427247	0.61	cps
Zirconium	90-1	11122475	11151260	11120127	11131287	0.16	cps
Zirconium	91-1	2510619	2519020	2472697	2500779	0.99	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3125202	3150906	3122552	3132886	0.50	cps
Antimony	121-1	6870968	6951024	6851634	6891209	0.76	cps
Arsenic	75-2	120479	120244	121612	120779	0.61	cps
Barium	135-1	8870330	9017349	8978125	8955268	0.85	cps
Barium	137-1	15426339	15512755	15469894	15469662	0.28	cps
Beryllium	9-1	2372868	2416404	2402074	2397115	0.93	cps
Bismuth	209-1	9411492	9348187	9271240	9343640	0.75	cps
Bismuth	209-2	3515644	3576414	3540008	3544022	0.86	cps
Bromine	81-1	12175	11915	11211	11767	4.24	cps
Cadmium	108-1	134303	134478	135410	134730	0.44	cps
Cadmium	106-1	197437	198807	196339	197528	0.63	cps
Cadmium	111-1	1663669	1627988	1669658	1653771	1.36	cps
Calcium	43-1	13043652	13400278	13074885	13172938	1.50	cps
Calcium	44-1	210129850	213095810	210479517	211235059	0.77	cps
Carbon	12-1	5720037	5668713	5508464	5632405	1.96	cps
Carbon	12-2	38968	37581	37631	38060	2.07	cps
Chlorine	35-1	389462	368854	348687	369001	5.53	cps
Chlorine	35-2	1200	1310	1117	1209	8.02	cps
Chromium	52-2	1499905	1493380	1495885	1496390	0.22	cps
Cobalt	59-2	2659225	2675430	2697961	2677539	0.73	cps
Copper	63-2	18787858	18783705	18956001	18842522	0.52	cps
Dysprosium	156-1	447	430	447	441	2.18	cps
Dysprosium	156-2	103	80	100	94	13.36	cps
Erbium	164-1	360	440	470	423	13.43	cps
Erbium	164-2	117	130	97	114	14.66	cps
Gadolinium	160-1	330	347	290	322	9.04	cps
Gadolinium	160-2	117	100	143	120	18.22	cps
Holmium	165-1	17151756	17008850	16885008	17015205	0.78	cps
Holmium	165-2	5729265	5611176	5629500	5656647	1.12	cps
Indium	115-1	12419705	12374923	12247982	12347536	0.72	cps
Indium	115-2	1151560	1157236	1155810	1154869	0.26	cps
Iron	54-2	14915816	14901031	14863931	14893593	0.18	cps
Iron	56-2	275344916	274149049	270315943	273269969	0.96	cps
Iron	57-2	6876386	6959488	6911564	6915813	0.60	cps
Krypton	83-1	210	223	220	218	3.19	cps
Lead	206-1	27666416	27819666	27973330	27819804	0.55	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23918217	23751516	23904290	23858008	0.39	cps
Lead	208-1	109315978	109835783	110354369	109835377	0.47	cps
Lithium	6-1	6369655	6397283	6412631	6393190	0.34	cps
Magnesium	24-2	52765524	53076796	52676704	52839675	0.40	cps
Manganese	55-2	6403743	6410078	6265330	6359717	1.29	cps
Molybdenum	94-1	25276172	25693516	25770041	25579910	1.04	cps
Molybdenum	95-1	36698124	36694084	37093197	36828468	0.62	cps
Molybdenum	96-1	39912239	40296990	40191448	40133559	0.50	cps
Molybdenum	97-1	22813483	22852343	22887024	22850950	0.16	cps
Molybdenum	98-1	59437729	59354367	59863286	59551794	0.46	cps
Neodymium	150-1	950	917	880	916	3.82	cps
Neodymium	150-2	87	63	107	86	25.35	cps
Nickel	60-2	727934	721173	730982	726697	0.69	cps
Phosphorus	31-2	26234	26214	26952	26466	1.59	cps
Potassium	39-2	15370250	15384241	15349486	15367992	0.11	cps
Rhodium	103-1	11094234	10972807	10869888	10978976	1.02	cps
Rhodium	103-2	3958329	4001019	4012781	3990710	0.72	cps
Scandium	45-1	9545007	9359945	9315385	9406779	1.29	cps
Scandium	45-2	161850	162402	161169	161807	0.38	cps
Selenium	82-1	103886	105199	104678	104588	0.63	cps
Selenium	77-2	1817	1633	1913	1788	7.96	cps
Selenium	78-2	5945	5755	5968	5889	1.99	cps
Silicon	28-1	20438356	20535827	20252769	20408984	0.70	cps
Silver	107-1	8754028	8692048	8740100	8728725	0.37	cps
Silver	109-1	8264934	8292684	8199601	8252406	0.58	cps
Sodium	23-2	103160212	104576108	103772988	103836436	0.68	cps
Strontium	86-1	2606098	2600319	2585089	2597169	0.42	cps
Strontium	88-1	22122535	22130978	21966005	22073172	0.42	cps
Sulfur	34-1	1104782	1080510	1075671	1086988	1.44	cps
Terbium	159-1	17438392	17338464	16955833	17244230	1.48	cps
Terbium	159-2	5411848	5426648	5431429	5423309	0.19	cps
Thallium	203-1	7121833	7259300	7176523	7185885	0.96	cps
Thallium	205-1	16878441	17125096	16921278	16974938	0.78	cps
Tin	118-1	5917103	5884803	5939020	5913642	0.46	cps
Titanium	47-1	11296872	11363126	11370022	11343340	0.36	cps
Uranium	238-1	22769660	22626591	22720216	22705489	0.32	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV010	Instrumnet Name :	P8
Client Sample ID :	CCV010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:05:24	DataFile Name :	067CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1108707	1109034	1104955	1107565	0.20	cps
Ytterbium	172-1	410	453	377	413	9.30	cps
Ytterbium	172-2	140	97	153	130	22.79	cps
Ytterbium	176-1	33797	34178	34361	34112	0.84	cps
Ytterbium	176-2	11348	11669	11025	11347	2.84	cps
Yttrium	89-1	23783701	23822515	23436719	23680979	0.90	cps
Yttrium	89-2	1661142	1666376	1671318	1666279	0.31	cps
Zinc	66-2	2042691	2038020	2025406	2035372	0.44	cps
Zirconium	90-1	12729689	13045490	12709056	12828078	1.47	cps
Zirconium	91-1	2839937	2891689	2913097	2881574	1.31	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	53	77	78	32.17	cps
Antimony	121-1	537	573	530	547	4.27	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	680	570	547	599	11.89	cps
Barium	137-1	1040	1107	950	1032	7.62	cps
Beryllium	9-1	755	809	782	782	3.44	cps
Bismuth	209-1	10574827	10545763	10285332	10468641	1.52	cps
Bismuth	209-2	4079626	4165785	4044875	4096762	1.52	cps
Bromine	81-1	7492	7669	7555	7572	1.18	cps
Cadmium	108-1	33	27	40	33	20.00	cps
Cadmium	106-1	7339	6992	6992	7107	2.82	cps
Cadmium	111-1	1528	1446	1440	1471	3.32	cps
Calcium	43-1	753	707	787	749	5.37	cps
Calcium	44-1	12215	12058	12002	12092	0.91	cps
Carbon	12-1	3396076	3359677	3602214	3452656	3.79	cps
Carbon	12-2	23896	23529	23556	23660	0.87	cps
Chlorine	35-1	137560	135305	132311	135059	1.95	cps
Chlorine	35-2	477	513	473	488	4.55	cps
Chromium	52-2	457	550	460	489	10.83	cps
Cobalt	59-2	167	217	163	182	16.39	cps
Copper	63-2	2704	2917	2650	2757	5.12	cps
Dysprosium	156-1	23	33	17	24	34.31	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	93	100	83	92	9.10	cps
Erbium	164-2	23	33	23	27	21.65	cps
Gadolinium	160-1	67	77	103	82	23.05	cps
Gadolinium	160-2	10	20	23	18	39.03	cps
Holmium	165-1	17262155	16847081	16801074	16970103	1.50	cps
Holmium	165-2	5636741	5879107	5715005	5743617	2.15	cps
Indium	115-1	13619542	13431139	13109413	13386698	1.93	cps
Indium	115-2	1237218	1292296	1242709	1257407	2.41	cps
Iron	54-2	353	377	357	362	3.48	cps
Iron	56-2	4587	4477	4461	4509	1.53	cps
Iron	57-2	110	107	120	112	6.18	cps
Krypton	83-1	140	113	167	140	19.05	cps
Lead	206-1	2430	2147	2414	2330	6.82	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2217	1974	1787	1992	10.82	cps
Lead	208-1	9541	8918	9041	9167	3.60	cps
Lithium	6-1	7290836	7109220	7057732	7152596	1.71	cps
Magnesium	24-2	490	460	390	447	11.49	cps
Manganese	55-2	260	317	293	290	9.82	cps
Molybdenum	94-1	600	467	537	534	12.48	cps
Molybdenum	95-1	497	397	423	439	11.80	cps
Molybdenum	96-1	693	423	587	568	23.95	cps
Molybdenum	97-1	307	227	223	252	18.70	cps
Molybdenum	98-1	830	687	597	704	16.70	cps
Neodymium	150-1	20	27	23	23	14.29	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1143	1047	1110	1100	4.46	cps
Phosphorus	31-2	53	57	50	53	6.25	cps
Potassium	39-2	8292	7866	8182	8113	2.73	cps
Rhodium	103-1	12645610	12383865	12143112	12390862	2.03	cps
Rhodium	103-2	4438764	4743540	4536552	4572952	3.40	cps
Scandium	45-1	9784018	9782895	9530439	9699117	1.51	cps
Scandium	45-2	162504	169864	161334	164567	2.81	cps
Selenium	82-1	27	73	23	41	68.00	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	13	3	10	57.75	cps
Silicon	28-1	415807	414645	413836	414762	0.24	cps
Silver	107-1	340	363	283	329	12.51	cps
Silver	109-1	193	223	287	234	20.32	cps
Sodium	23-2	30552	30462	29954	30323	1.06	cps
Strontium	86-1	297	310	267	291	7.62	cps
Strontium	88-1	580	503	477	520	10.32	cps
Sulfur	34-1	381510	380665	382541	381572	0.25	cps
Terbium	159-1	17500351	17394203	17165734	17353429	0.99	cps
Terbium	159-2	5501632	5671380	5460919	5544643	2.01	cps
Thallium	203-1	917	797	763	826	9.77	cps
Thallium	205-1	2154	1957	2094	2068	4.87	cps
Tin	118-1	1517	1527	3880	2308	59.00	cps
Titanium	47-1	227	220	230	226	2.26	cps
Uranium	238-1	183	130	117	143	24.61	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB010	Instrumnet Name :	P8
Client Sample ID :	CCB010	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:11:51	DataFile Name :	069CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	10	10	9	21.63	cps
Ytterbium	172-1	90	70	103	88	19.11	cps
Ytterbium	172-2	27	33	30	30	11.10	cps
Ytterbium	176-1	2224	2027	1944	2065	6.96	cps
Ytterbium	176-2	230	323	247	267	18.67	cps
Yttrium	89-1	24777183	24382307	24160503	24439998	1.28	cps
Yttrium	89-2	1685020	1772444	1655167	1704210	3.58	cps
Zinc	66-2	313	310	260	294	10.15	cps
Zirconium	90-1	1794	1027	970	1264	36.43	cps
Zirconium	91-1	340	250	190	260	29.04	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	210	340	323	291	24.30	cps
Antimony	121-1	303	240	273	272	11.64	cps
Arsenic	75-2	10	20	27	19	44.42	cps
Barium	135-1	149908	149605	150879	150131	0.44	cps
Barium	137-1	260013	260079	259639	259910	0.09	cps
Beryllium	9-1	834	794	845	824	3.27	cps
Bismuth	209-1	10289788	10515958	10450191	10418646	1.12	cps
Bismuth	209-2	4079863	4043850	3980222	4034645	1.25	cps
Bromine	81-1	11635	13660	14344	13213	10.66	cps
Cadmium	108-1	73	43	37	51	38.21	cps
Cadmium	106-1	7209	7465	7165	7280	2.23	cps
Cadmium	111-1	1557	1679	1567	1601	4.24	cps
Calcium	43-1	377669	378596	378149	378138	0.12	cps
Calcium	44-1	6322891	6279901	6490263	6364352	1.75	cps
Carbon	12-1	3651986	3690590	3821064	3721213	2.38	cps
Carbon	12-2	25472	25469	24744	25228	1.66	cps
Chlorine	35-1	1003016	1076752	1171499	1083756	7.79	cps
Chlorine	35-2	4427	4544	4437	4470	1.45	cps
Chromium	52-2	2210299	2251124	2243602	2235008	0.97	cps
Cobalt	59-2	8242	8353	8423	8339	1.09	cps
Copper	63-2	7105	6598	6675	6793	4.02	cps
Dysprosium	156-1	163	170	173	169	3.01	cps
Dysprosium	156-2	27	57	47	43	35.25	cps
Erbium	164-1	223	193	197	204	8.04	cps
Erbium	164-2	57	67	83	69	19.55	cps
Gadolinium	160-1	200	173	237	203	15.64	cps
Gadolinium	160-2	70	97	80	82	16.39	cps
Holmium	165-1	16686929	17098439	17112434	16965934	1.42	cps
Holmium	165-2	5718551	5664319	5608756	5663875	0.97	cps
Indium	115-1	13244998	13359466	13233451	13279305	0.52	cps
Indium	115-2	1242493	1260839	1230417	1244583	1.23	cps
Iron	54-2	74144	75089	73407	74214	1.14	cps
Iron	56-2	71786	72737	72345	72290	0.66	cps
Iron	57-2	1897	1687	1850	1811	6.09	cps
Krypton	83-1	177	150	203	177	15.10	cps
Lead	206-1	2164	1833	1910	1969	8.77	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1760	1670	1573	1668	5.60	cps
Lead	208-1	7818	7518	7821	7719	2.26	cps
Lithium	6-1	7172103	6901678	7064367	7046049	1.93	cps
Magnesium	24-2	548542	547946	550443	548977	0.24	cps
Manganese	55-2	57760	57512	57291	57521	0.41	cps
Molybdenum	94-1	423	533	530	496	12.63	cps
Molybdenum	95-1	423	403	373	400	6.29	cps
Molybdenum	96-1	470	567	380	472	19.77	cps
Molybdenum	97-1	263	217	217	232	11.60	cps
Molybdenum	98-1	570	550	527	549	3.95	cps
Neodymium	150-1	137	140	110	129	12.76	cps
Neodymium	150-2	27	27	20	24	15.75	cps
Nickel	60-2	33065	34148	34194	33802	1.89	cps
Phosphorus	31-2	93	83	77	84	9.93	cps
Potassium	39-2	28722	29076	28802	28867	0.64	cps
Rhodium	103-1	12050517	12303261	12331345	12228374	1.26	cps
Rhodium	103-2	4435018	4563384	4361069	4453157	2.30	cps
Scandium	45-1	9591419	9713213	9850164	9718265	1.33	cps
Scandium	45-2	163939	167153	160403	163832	2.06	cps
Selenium	82-1	50	73	-3	40	98.26	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	17	13	12	41.65	cps
Silicon	28-1	15875640	16103590	16065668	16014966	0.76	cps
Silver	107-1	283	287	293	288	1.77	cps
Silver	109-1	157	197	160	171	12.97	cps
Sodium	23-2	1152744	1162942	1143243	1152976	0.85	cps
Strontium	86-1	80781	83705	83092	82526	1.87	cps
Strontium	88-1	705824	705250	710692	707255	0.42	cps
Sulfur	34-1	451650	447198	447477	448775	0.56	cps
Terbium	159-1	17009179	17503125	17386406	17299570	1.49	cps
Terbium	159-2	5547873	5681252	5425243	5551456	2.31	cps
Thallium	203-1	643	720	760	708	8.38	cps
Thallium	205-1	1560	1723	1630	1638	5.00	cps
Tin	118-1	1787	1713	1660	1720	3.70	cps
Titanium	47-1	473	430	357	420	14.04	cps
Uranium	238-1	5471	5468	5211	5383	2.77	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	Q1085-01DLX10	Instrumnet Name :	P8
Client Sample ID :	MC0B99	Dilution Factor :	10
Date & Time Acquired :	2025-01-20 17:15:15	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	80	113	153	116	31.78	cps
Ytterbium	172-1	87	157	87	110	36.74	cps
Ytterbium	172-2	40	47	63	50	24.03	cps
Ytterbium	176-1	1877	2137	2227	2080	8.74	cps
Ytterbium	176-2	257	243	320	273	14.99	cps
Yttrium	89-1	24107823	24579687	24543948	24410486	1.08	cps
Yttrium	89-2	1703418	1722517	1654662	1693533	2.07	cps
Zinc	66-2	1200	1280	1417	1299	8.44	cps
Zirconium	90-1	950	867	867	894	5.38	cps
Zirconium	91-1	187	190	177	184	3.76	cps

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Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3061513	3033146	2972147	3022269	1.51	cps
Antimony	121-1	6518779	6579500	6633291	6577190	0.87	cps
Arsenic	75-2	115737	114803	115357	115299	0.41	cps
Barium	135-1	8493561	8487896	8569625	8517027	0.54	cps
Barium	137-1	14592826	14678069	15002718	14757871	1.47	cps
Beryllium	9-1	2299976	2340971	2311707	2317551	0.91	cps
Bismuth	209-1	9107515	9055878	9033011	9065468	0.42	cps
Bismuth	209-2	3477621	3423040	3442614	3447758	0.80	cps
Bromine	81-1	8246	8796	8449	8497	3.27	cps
Cadmium	108-1	126147	127321	127930	127133	0.71	cps
Cadmium	106-1	183711	184823	187651	185395	1.10	cps
Cadmium	111-1	1555215	1572647	1589763	1572542	1.10	cps
Calcium	43-1	12485617	12676564	12659956	12607379	0.84	cps
Calcium	44-1	201365090	204235010	205342870	203647657	1.01	cps
Carbon	12-1	3628099	3740502	3823162	3730588	2.62	cps
Carbon	12-2	30027	29129	28675	29277	2.35	cps
Chlorine	35-1	182501	177014	170322	176612	3.45	cps
Chlorine	35-2	643	620	653	639	2.68	cps
Chromium	52-2	1446704	1447424	1455161	1449763	0.32	cps
Cobalt	59-2	2640163	2593763	2577179	2603702	1.25	cps
Copper	63-2	18360680	18254480	18261170	18292110	0.33	cps
Dysprosium	156-1	407	483	437	442	8.74	cps
Dysprosium	156-2	113	93	100	102	9.97	cps
Erbium	164-1	380	403	453	412	9.09	cps
Erbium	164-2	110	120	143	124	13.75	cps
Gadolinium	160-1	367	367	350	361	2.67	cps
Gadolinium	160-2	153	87	90	110	34.15	cps
Holmium	165-1	16399591	16108801	16100537	16202977	1.05	cps
Holmium	165-2	5449272	5459081	5456458	5454937	0.09	cps
Indium	115-1	12100389	11887817	11900536	11962914	1.00	cps
Indium	115-2	1124487	1127509	1128906	1126967	0.20	cps
Iron	54-2	14400851	14365146	14359045	14375014	0.16	cps
Iron	56-2	262527549	260973209	263850316	262450358	0.55	cps
Iron	57-2	6725149	6607899	6638362	6657137	0.91	cps
Krypton	83-1	227	240	273	247	9.74	cps
Lead	206-1	26198120	26632101	26900714	26576978	1.33	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	22621551	22913305	22940383	22825080	0.77	cps
Lead	208-1	104148723	105345053	105577818	105023865	0.73	cps
Lithium	6-1	6294774	6384221	6242482	6307159	1.14	cps
Magnesium	24-2	51850404	51295198	50688608	51278070	1.13	cps
Manganese	55-2	6107658	6131324	6118686	6119223	0.19	cps
Molybdenum	94-1	24223670	24366741	24468097	24352836	0.50	cps
Molybdenum	95-1	35252710	35052184	35365319	35223404	0.45	cps
Molybdenum	96-1	38417109	38449465	38578772	38481782	0.22	cps
Molybdenum	97-1	21725607	21738204	21769050	21744287	0.10	cps
Molybdenum	98-1	56860159	56636001	57612482	57036214	0.90	cps
Neodymium	150-1	877	903	810	863	5.57	cps
Neodymium	150-2	60	53	60	58	6.67	cps
Nickel	60-2	707984	705608	703167	705586	0.34	cps
Phosphorus	31-2	25219	25319	24785	25107	1.13	cps
Potassium	39-2	14936125	14918071	14782267	14878821	0.57	cps
Rhodium	103-1	10673817	10357032	10541875	10524242	1.51	cps
Rhodium	103-2	3817047	3858441	3832502	3835996	0.55	cps
Scandium	45-1	9134590	8980040	9064627	9059752	0.85	cps
Scandium	45-2	158078	157917	156505	157500	0.55	cps
Selenium	82-1	99538	100240	99988	99922	0.36	cps
Selenium	77-2	1723	1643	1627	1665	3.10	cps
Selenium	78-2	5875	5675	5655	5735	2.12	cps
Silicon	28-1	19395899	19211865	19131965	19246576	0.70	cps
Silver	107-1	8214609	8305103	8245389	8255034	0.56	cps
Silver	109-1	7739426	7924993	7834567	7832995	1.18	cps
Sodium	23-2	102180498	100605052	100105685	100963745	1.07	cps
Strontium	86-1	2498879	2481225	2502549	2494218	0.46	cps
Strontium	88-1	21003143	21315220	21015393	21111252	0.84	cps
Sulfur	34-1	1006961	1025041	1029082	1020361	1.15	cps
Terbium	159-1	16821797	16316645	16457498	16531980	1.58	cps
Terbium	159-2	5256115	5173942	5274620	5234892	1.02	cps
Thallium	203-1	6828762	6847838	6858979	6845193	0.22	cps
Thallium	205-1	16198333	16219207	16311554	16243031	0.37	cps
Tin	118-1	5652475	5707154	5722097	5693909	0.64	cps
Titanium	47-1	10694122	10808427	10920106	10807552	1.05	cps
Uranium	238-1	21690105	22062215	22014689	21922336	0.92	cps

1000

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P8
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:18:32	DataFile Name :	071CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1072680	1068993	1068789	1070154	0.20	cps
Ytterbium	172-1	400	443	447	430	6.05	cps
Ytterbium	172-2	187	130	163	160	17.80	cps
Ytterbium	176-1	32787	33225	32984	32999	0.66	cps
Ytterbium	176-2	10601	10868	10818	10762	1.32	cps
Yttrium	89-1	23224963	22683116	22720862	22876314	1.32	cps
Yttrium	89-2	1622294	1577377	1601900	1600524	1.41	cps
Zinc	66-2	1985334	1960643	1983438	1976472	0.70	cps
Zirconium	90-1	12083323	12208933	12265973	12186076	0.77	cps
Zirconium	91-1	2700628	2691015	2782239	2724627	1.84	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	113	143	130	129	11.67	cps
Antimony	121-1	1717	1637	1313	1556	13.73	cps
Arsenic	75-2	3	13	13	10	57.75	cps
Barium	135-1	1300	1150	1027	1159	11.81	cps
Barium	137-1	2224	1840	1533	1866	18.53	cps
Beryllium	9-1	1026	1035	879	980	8.96	cps
Bismuth	209-1	10890081	10473214	10313828	10559041	2.82	cps
Bismuth	209-2	4142092	4099555	4109864	4117170	0.54	cps
Bromine	81-1	7706	7455	7462	7541	1.89	cps
Cadmium	108-1	73	70	50	64	19.58	cps
Cadmium	106-1	7892	7262	7049	7401	5.93	cps
Cadmium	111-1	1690	1593	1521	1602	5.30	cps
Calcium	43-1	1463	1340	960	1255	20.91	cps
Calcium	44-1	24635	20505	16359	20500	20.18	cps
Carbon	12-1	3148723	3104345	3062147	3105072	1.39	cps
Carbon	12-2	20274	20254	20080	20203	0.53	cps
Chlorine	35-1	122993	119612	117596	120067	2.27	cps
Chlorine	35-2	453	433	400	429	6.28	cps
Chromium	52-2	500	557	587	548	8.03	cps
Cobalt	59-2	263	203	160	209	24.84	cps
Copper	63-2	3414	3440	3320	3392	1.86	cps
Dysprosium	156-1	47	30	30	36	27.07	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	110	70	87	89	22.60	cps
Erbium	164-2	30	33	13	26	41.94	cps
Gadolinium	160-1	80	73	63	72	11.62	cps
Gadolinium	160-2	10	10	13	11	17.30	cps
Holmium	165-1	17913196	17174824	16904990	17331003	3.01	cps
Holmium	165-2	5750710	5652331	5768850	5723964	1.10	cps
Indium	115-1	14095049	13486863	13355197	13645703	2.89	cps
Indium	115-2	1260900	1251160	1269081	1260380	0.71	cps
Iron	54-2	673	537	487	566	17.09	cps
Iron	56-2	10808	9764	7195	9255	20.09	cps
Iron	57-2	263	250	160	224	25.04	cps
Krypton	83-1	193	163	167	174	9.43	cps
Lead	206-1	4417	3917	3220	3852	15.61	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3901	3524	2707	3377	18.07	cps
Lead	208-1	17558	15387	12896	15280	15.27	cps
Lithium	6-1	7467203	7075374	6919300	7153959	3.95	cps
Magnesium	24-2	1503	1347	933	1261	23.35	cps
Manganese	55-2	387	343	280	337	15.93	cps
Molybdenum	94-1	2357	1960	1387	1901	25.65	cps
Molybdenum	95-1	3217	2517	1610	2448	32.91	cps
Molybdenum	96-1	3327	2697	1787	2604	29.74	cps
Molybdenum	97-1	1963	1597	1010	1523	31.57	cps
Molybdenum	98-1	4834	3754	2614	3734	29.74	cps
Neodymium	150-1	37	23	43	34	29.57	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1033	1027	1017	1026	0.82	cps
Phosphorus	31-2	50	50	80	60	28.87	cps
Potassium	39-2	9010	8956	8873	8946	0.77	cps
Rhodium	103-1	12927986	12589267	12284144	12600466	2.56	cps
Rhodium	103-2	4573518	4538827	4554457	4555601	0.38	cps
Scandium	45-1	10251472	9696596	9668232	9872100	3.33	cps
Scandium	45-2	166849	164826	168239	166638	1.03	cps
Selenium	82-1	-27	0	37	3	954.04	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	10	0	4	114.60	cps
Silicon	28-1	413208	407379	407280	409289	0.83	cps
Silver	107-1	1590	1143	893	1209	29.20	cps
Silver	109-1	1457	1090	957	1168	22.17	cps
Sodium	23-2	36402	34965	34771	35380	2.52	cps
Strontium	86-1	527	427	340	431	21.67	cps
Strontium	88-1	1707	1453	927	1362	29.21	cps
Sulfur	34-1	380453	380956	380165	380525	0.11	cps
Terbium	159-1	18249548	17377195	17285191	17637311	3.02	cps
Terbium	159-2	5566432	5491887	5617364	5558561	1.14	cps
Thallium	203-1	1237	1043	997	1092	11.65	cps
Thallium	205-1	2987	2794	2197	2659	15.49	cps
Tin	118-1	3028	1913	1660	2201	33.08	cps
Titanium	47-1	840	710	397	649	35.12	cps
Uranium	238-1	1390	1137	673	1067	34.07	cps

Reviewed By:Mohan
On:1/21/2025 12:24:09 PM
Inst Id :P8

LB Number :	LB134353	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P8
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-01-20 17:21:21	DataFile Name :	072CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	20	20	26	37.66	cps
Ytterbium	172-1	137	100	90	109	22.57	cps
Ytterbium	172-2	20	47	27	31	44.61	cps
Ytterbium	176-1	2237	2067	2144	2149	3.96	cps
Ytterbium	176-2	250	290	283	274	7.81	cps
Yttrium	89-1	25834824	24356682	24174383	24788630	3.67	cps
Yttrium	89-2	1721342	1708046	1697042	1708810	0.71	cps
Zinc	66-2	367	360	420	382	8.60	cps
Zirconium	90-1	1823	1610	1310	1581	16.31	cps
Zirconium	91-1	397	337	300	344	14.17	cps

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Prep Standard - Chemical Standard Summary

Order ID : Q1085

Test : Metals CLP MS

Prepbatch ID : PB166076,

Sequence ID/Qc Batch ID: LB134335,LB134353,

Standard ID :
MP83499,MP83670,MP84041,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP84051,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84074,

Chemical ID :
M5192,M5288,M5289,M5295,M5298,M5304,M5390,M5476,M5496,M5497,M5498,M5513,M5515,M5519,M5658,M5697,M5698,M5739,M5751,M5768,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M6055,M6121,M6126,M6127,M6128,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP83499	12/09/2024	01/30/2025	Eman Mughal	None	None	Sarabjit Jaswal 12/09/2024

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3963	CONC.LCSW SPIKE	MP83670	12/13/2024	01/24/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 12/17/2024

FROM 0.05000ml of M5982 + 0.25000ml of M5192 + 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5697 + 0.50000ml of M5802 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M5978 + 1.25000ml of M6021 + 10.00000ml of M6126 + 12.50000ml of M5497 + 12.50000ml of M5519 + 12.50000ml of M5768 + 12.50000ml of M5806 + 150.00000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5818 + 5.00000ml of M5515 + 5.00000ml of M6121 + 6.25000ml of M5816 + 6.25000ml of M5820 = 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
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84042	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84043	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M5496 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5298 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M6128 + 9.90000ml of M5497 + 9.90000ml of M5806 + 9.90000ml of M6127 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP84044	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84043 = 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)	MP84045	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84043 = 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)	MP84046	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84043 = 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)	MP84047	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84044 = 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)	MP84048	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5298 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5806 + 2.50000ml of M6121 + 2.50000ml of M6127 + 225.25000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP84049	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84048 = 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)	MP84050	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84049 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP84051	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M5295 + 98.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84052	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5298 + 12.45000ml of M5519 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M5806 + 24.95000ml of M6127 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M6128 + 4.95000ml of M5496 + 5.00000ml of M5976 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84053	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP84054	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84042 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84055	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP84056	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84055 + 96.00000ml of MP84042 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84057	01/14/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84042 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP84073	01/14/2025	01/31/2025	Janvi Patel	None	None	Mohan Bera 01/16/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5298 + 5.00000ml of M5497 + 5.00000ml of M5806 + 5.00000ml of M6127 + 79.00000ml of MP84042 = 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
870	ICPMS SPIKE SOL.B	MP84074	01/16/2025	01/31/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP84042 = Final Quantity: 50.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

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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	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	01/08/2024 / bin	01/03/2024 / bin	M5768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	V2-MEB742036
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

1027

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M6032

R: 8/5/24

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1031

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

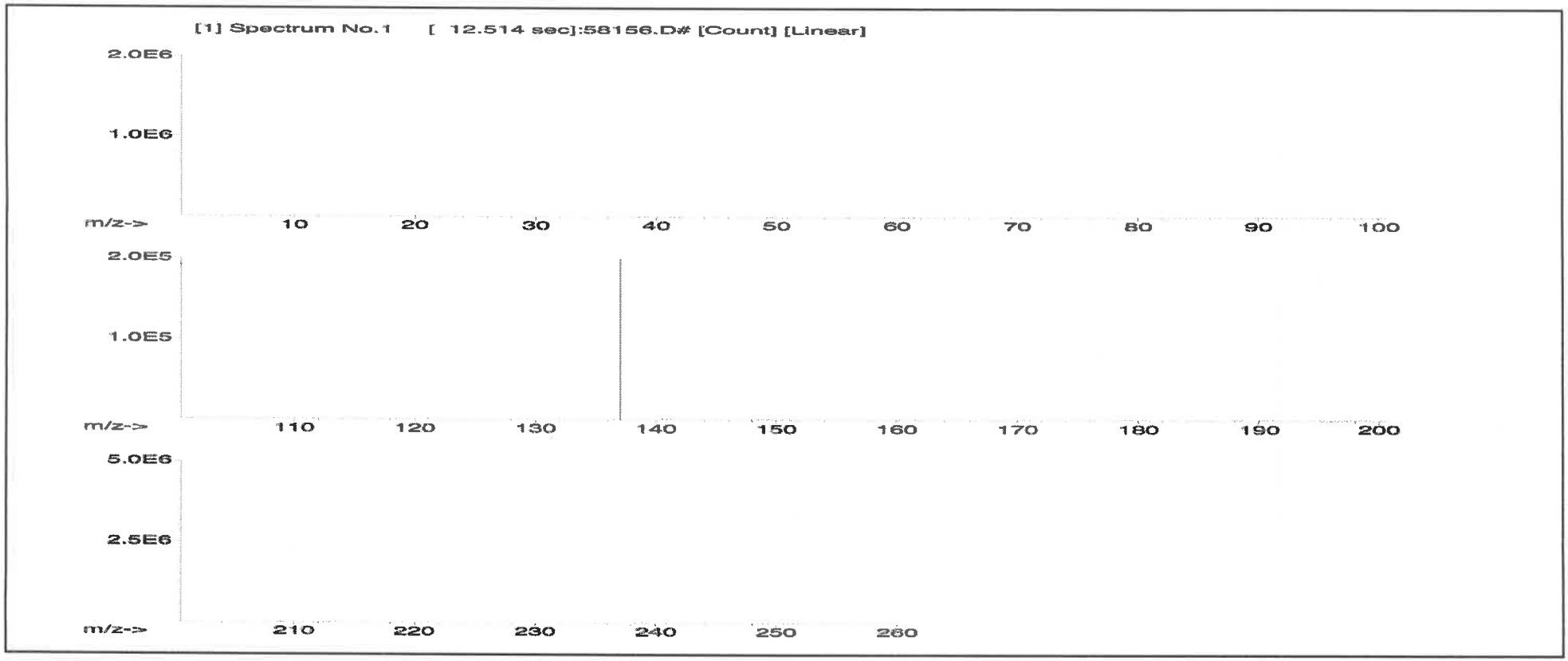
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



1032

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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* 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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1033

CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

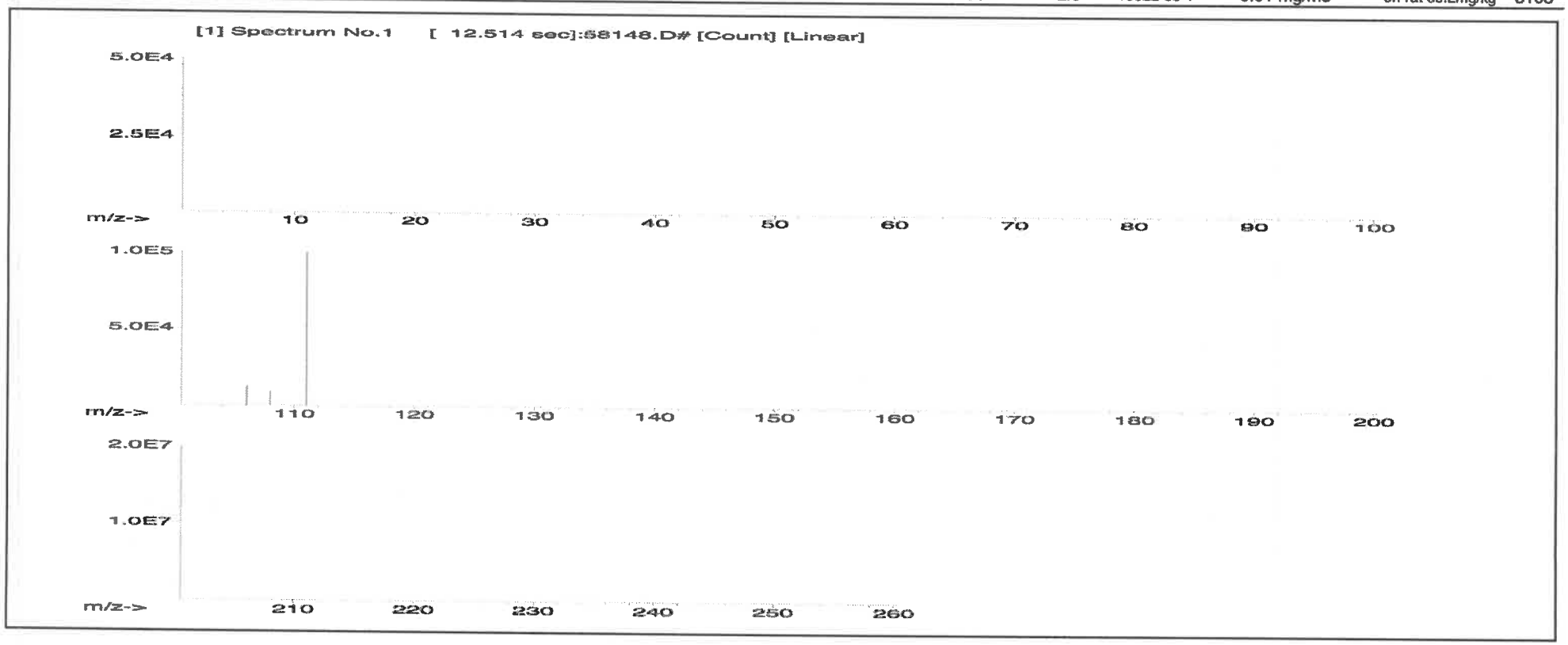
Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

	Lot #	
Solvent:	24002546	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Aleah O'Brady
Formulated By: Aleah O'Brady 070124

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



1034

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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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1035

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

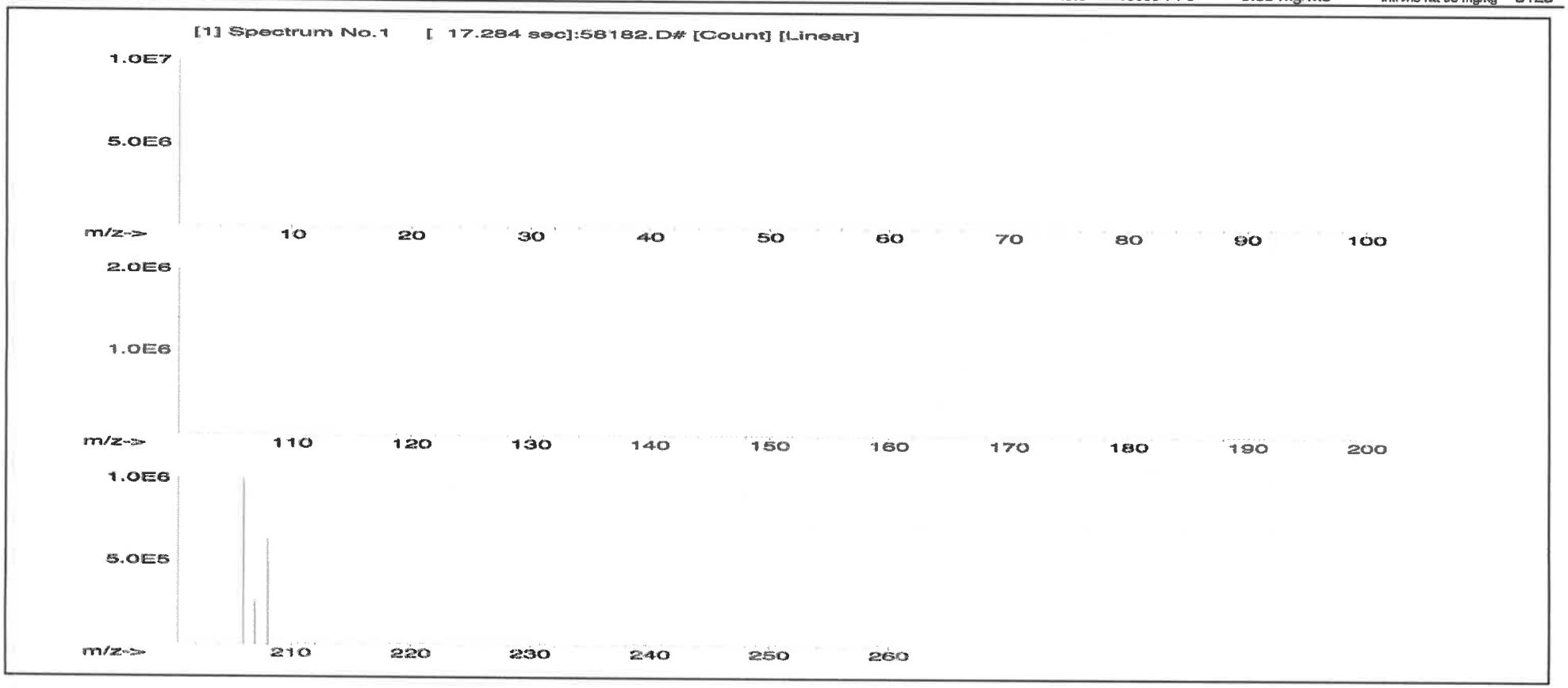
Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



1036

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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M5192 R: 06/17/22

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1037

CERTIFIED WEIGHT REPORT:

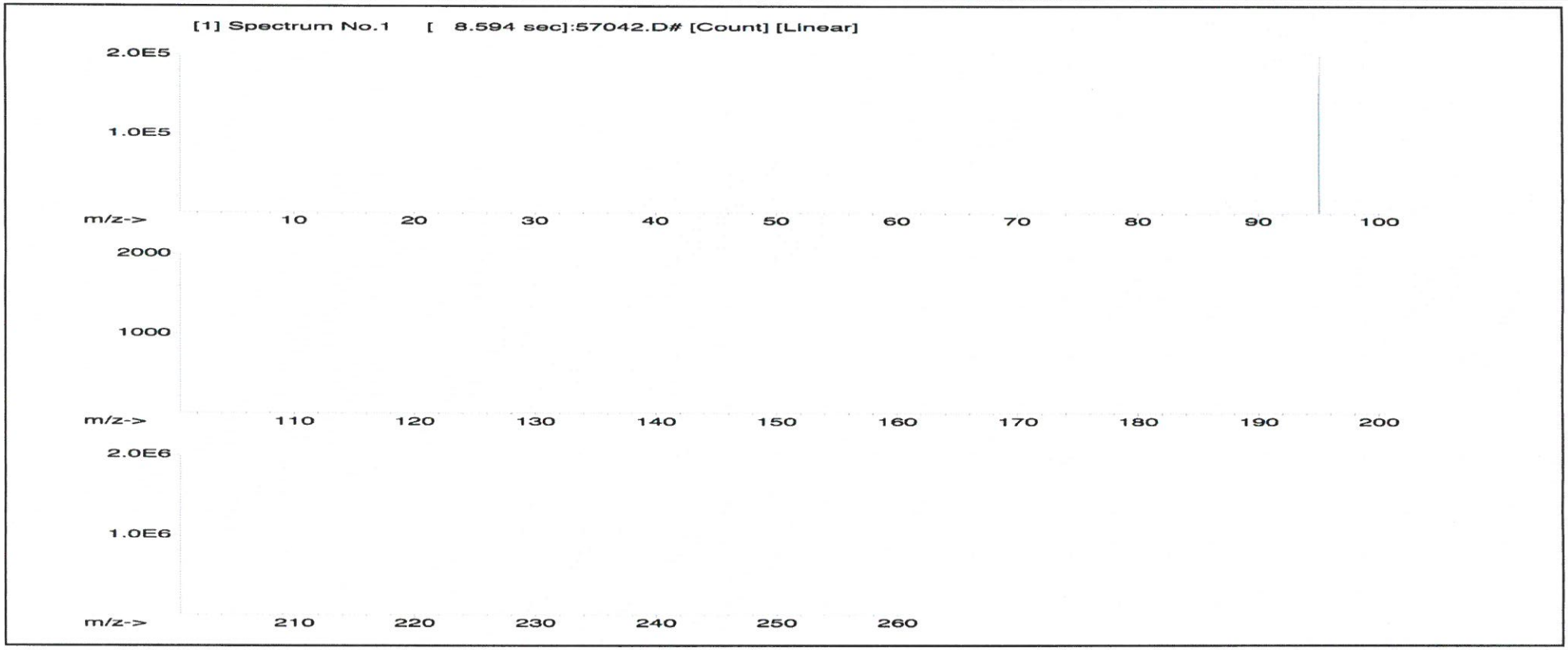
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 051722
Reviewed By: Pedro L. Rentas 051722

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



1038

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* 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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M5288 R: 07/21/2022

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1039

CERTIFIED WEIGHT REPORT:

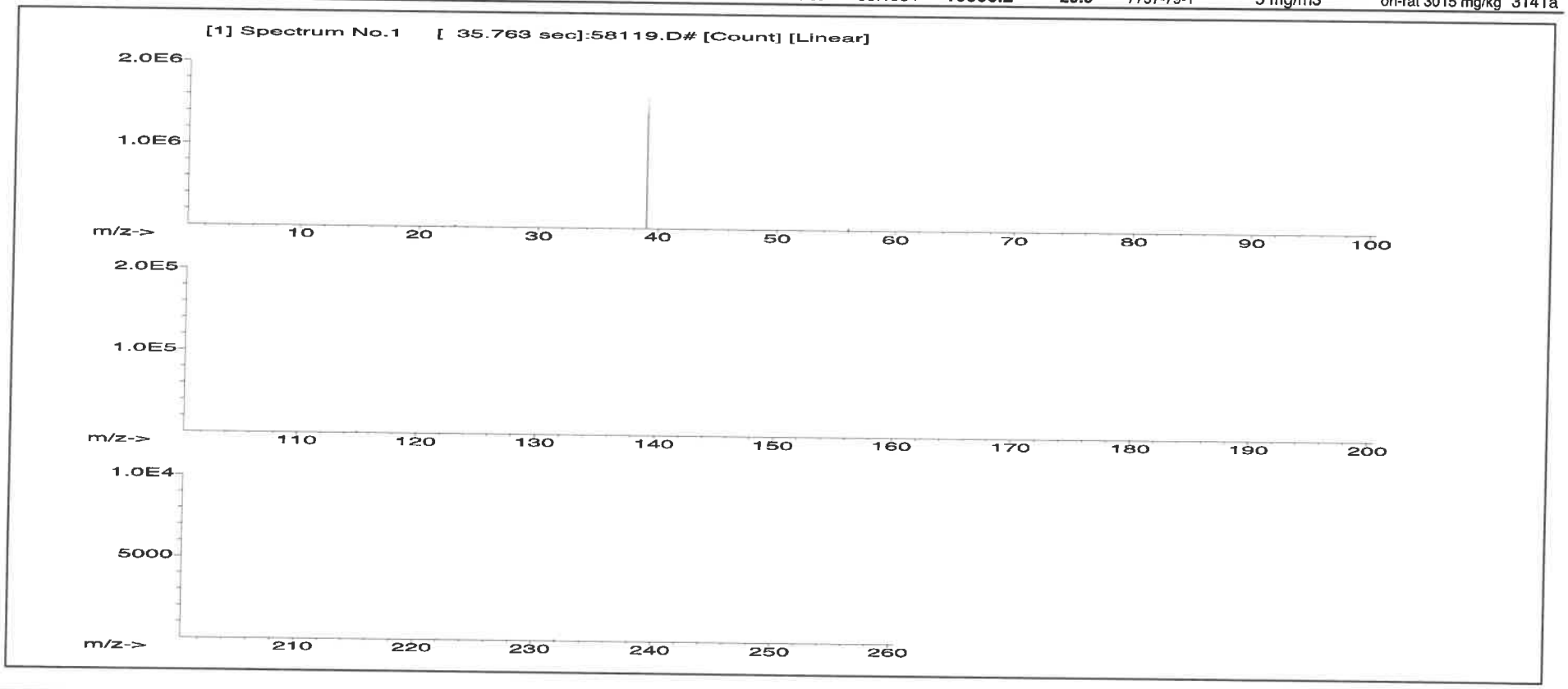
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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M5289 R: 07/12/22 (BH)

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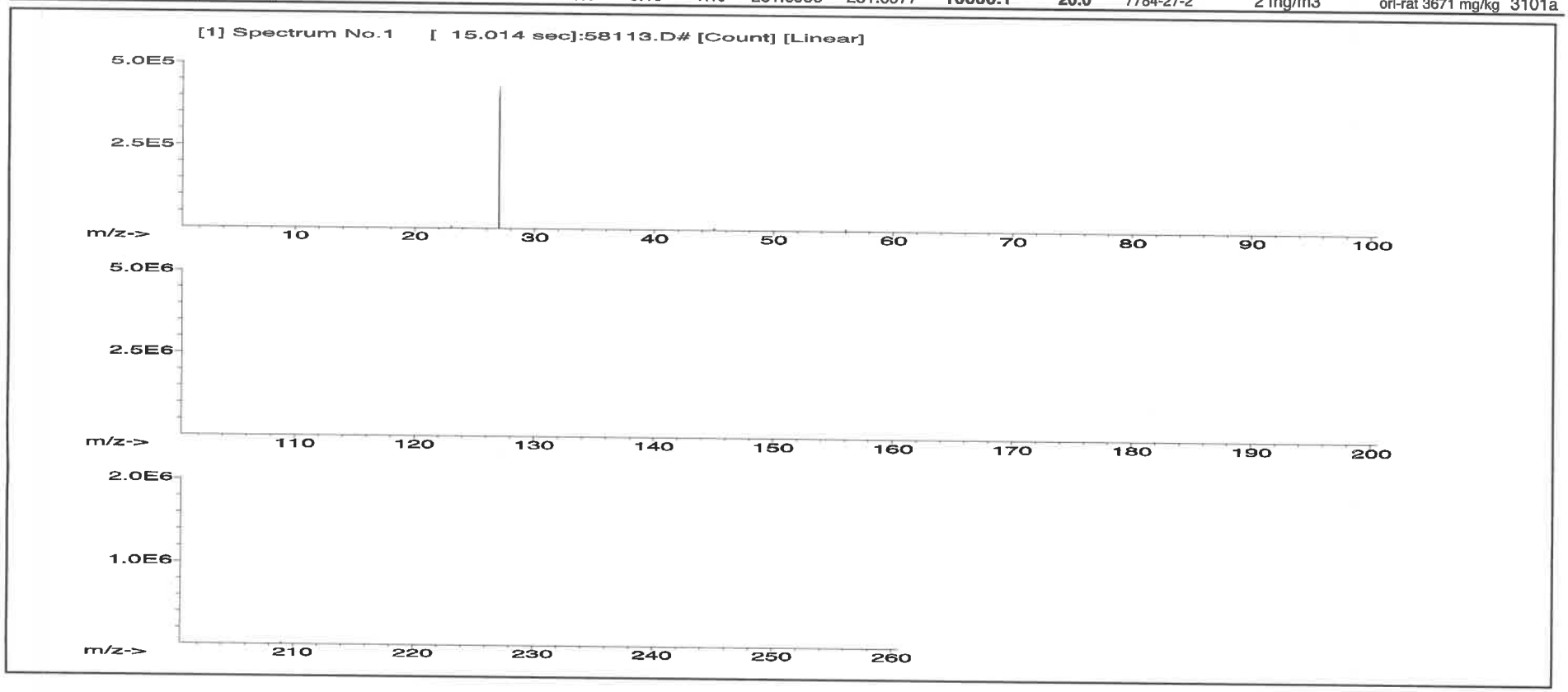
1041

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	070625				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05 Balance Uncertainty			
Weight shown below was diluted to (mL):	2000.02	0.058 Flask Uncertainty			

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



1042

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* 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.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

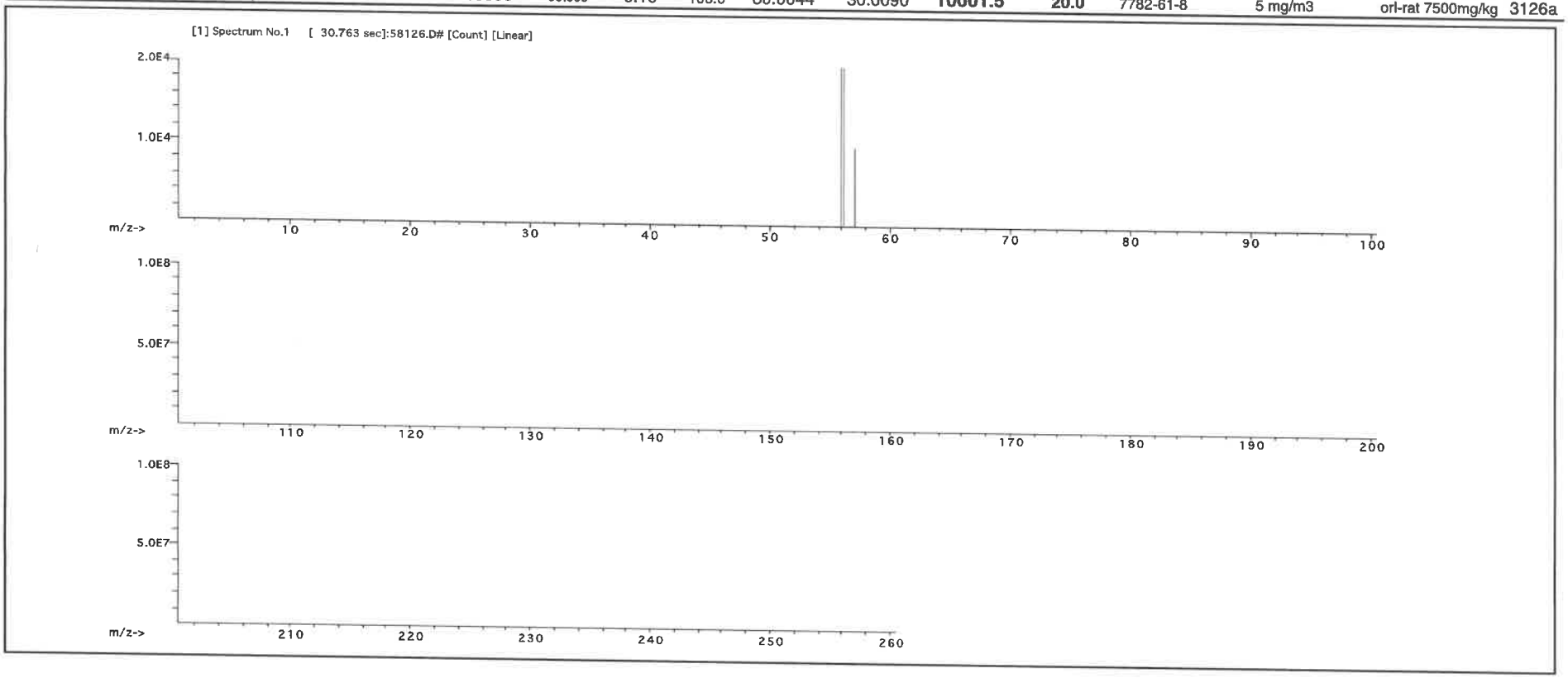
Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	020422
Reviewed By:	Pedro L. Rentas	020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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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	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* 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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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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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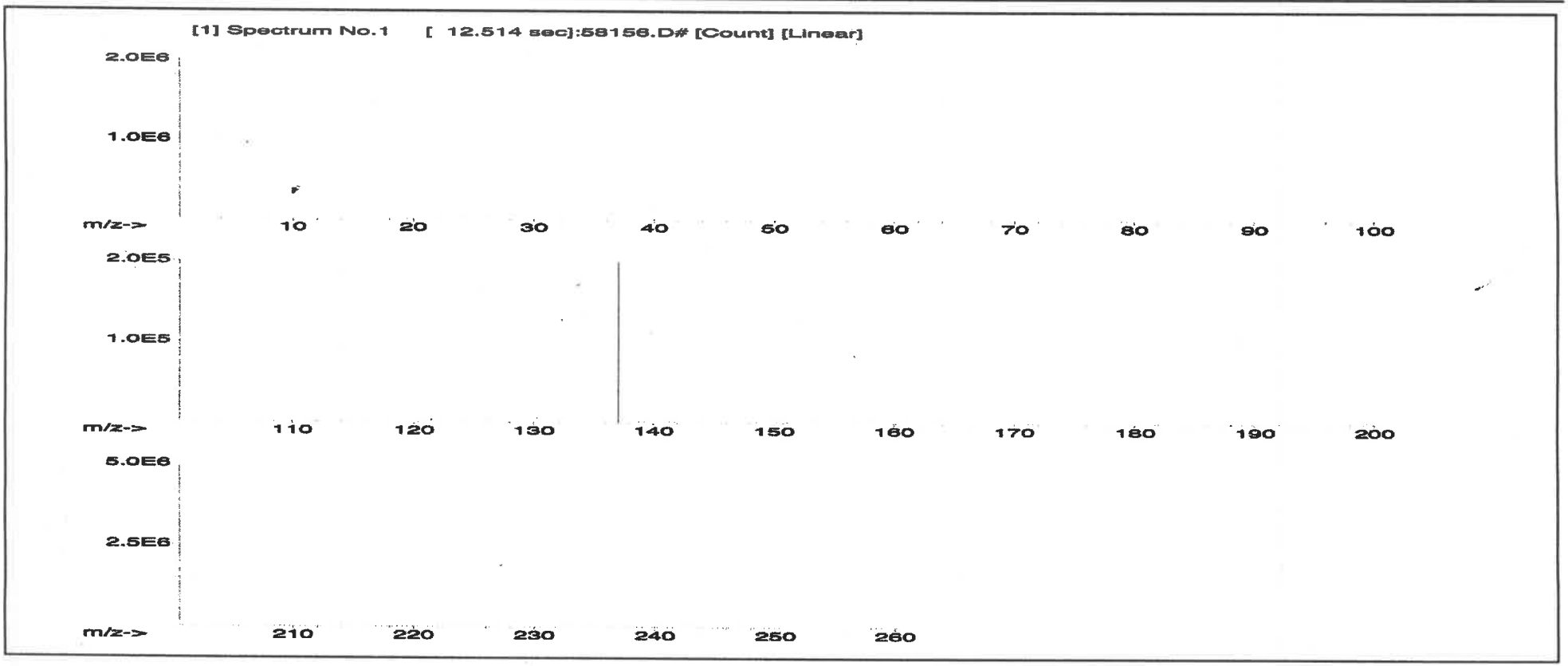
CERTIFIED WEIGHT REPORT:

				Lot #	
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid	
Lot Number:	**072122**				
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	072125				
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	072122
Reviewed By:	Pedro L. Rentas	072122

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	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

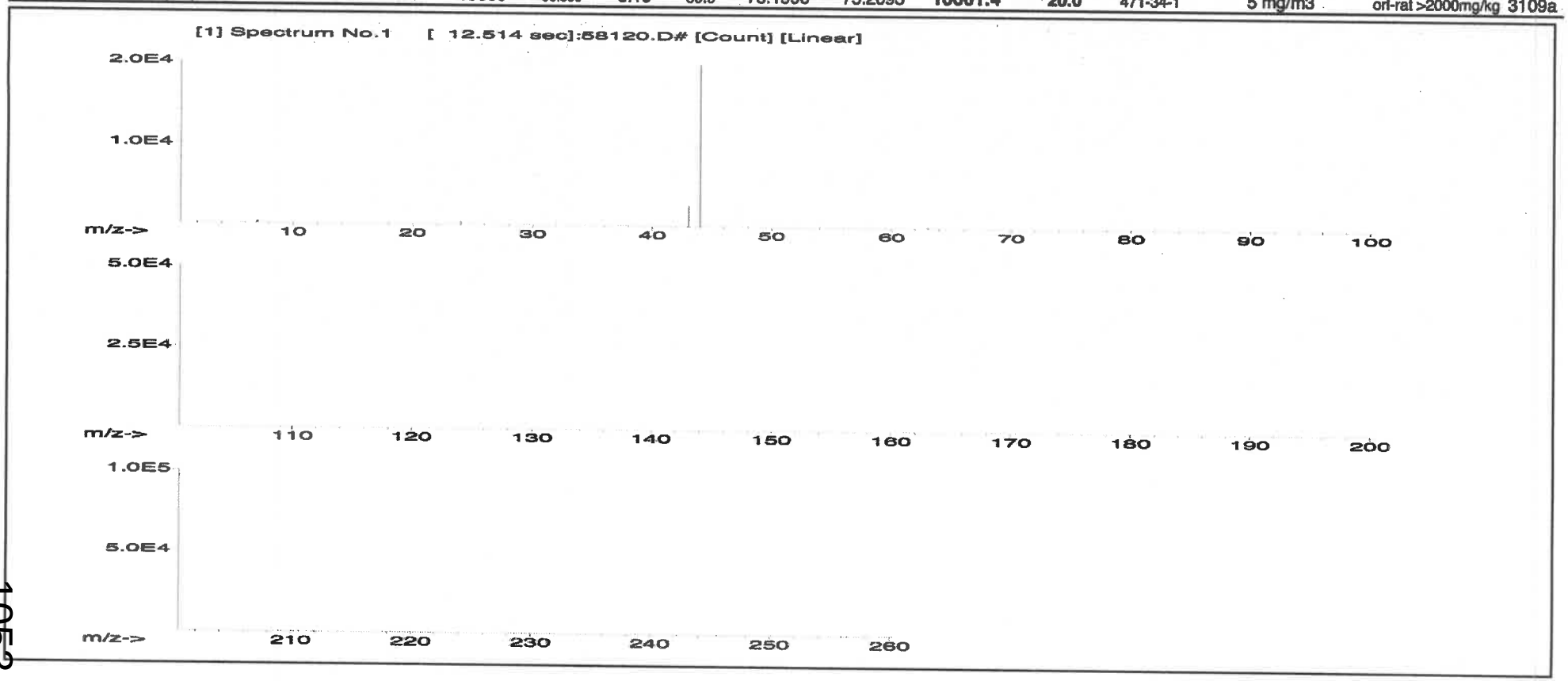
	Lot #	
Solvent:	21110221	Nitric Acid
2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



1053

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

10054

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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

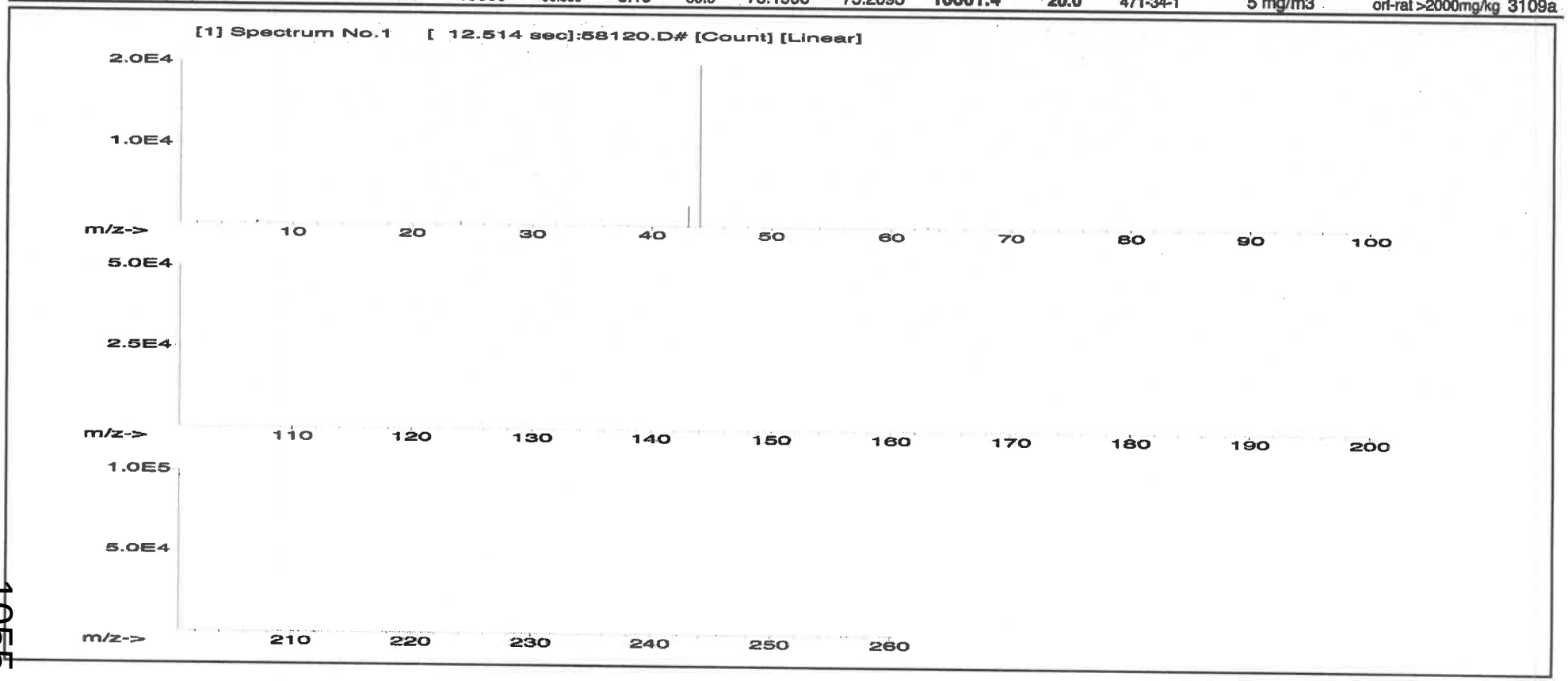
	Lot #	
Solvent:	21110221	Nitric Acid
2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



1055

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

T059

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M 5513 R: 03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

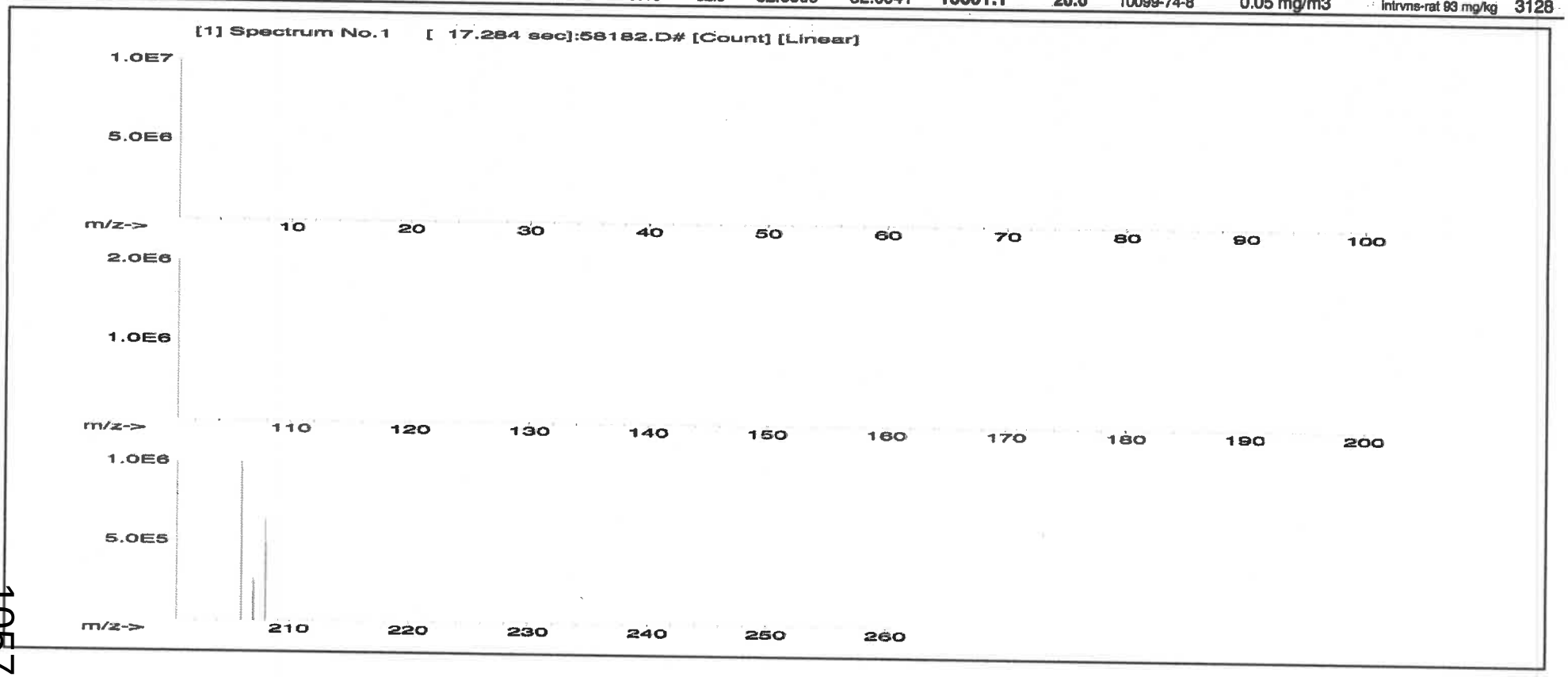
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



1057

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* 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).

T058

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M5514 , M5515 R: 03/17/23

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1059

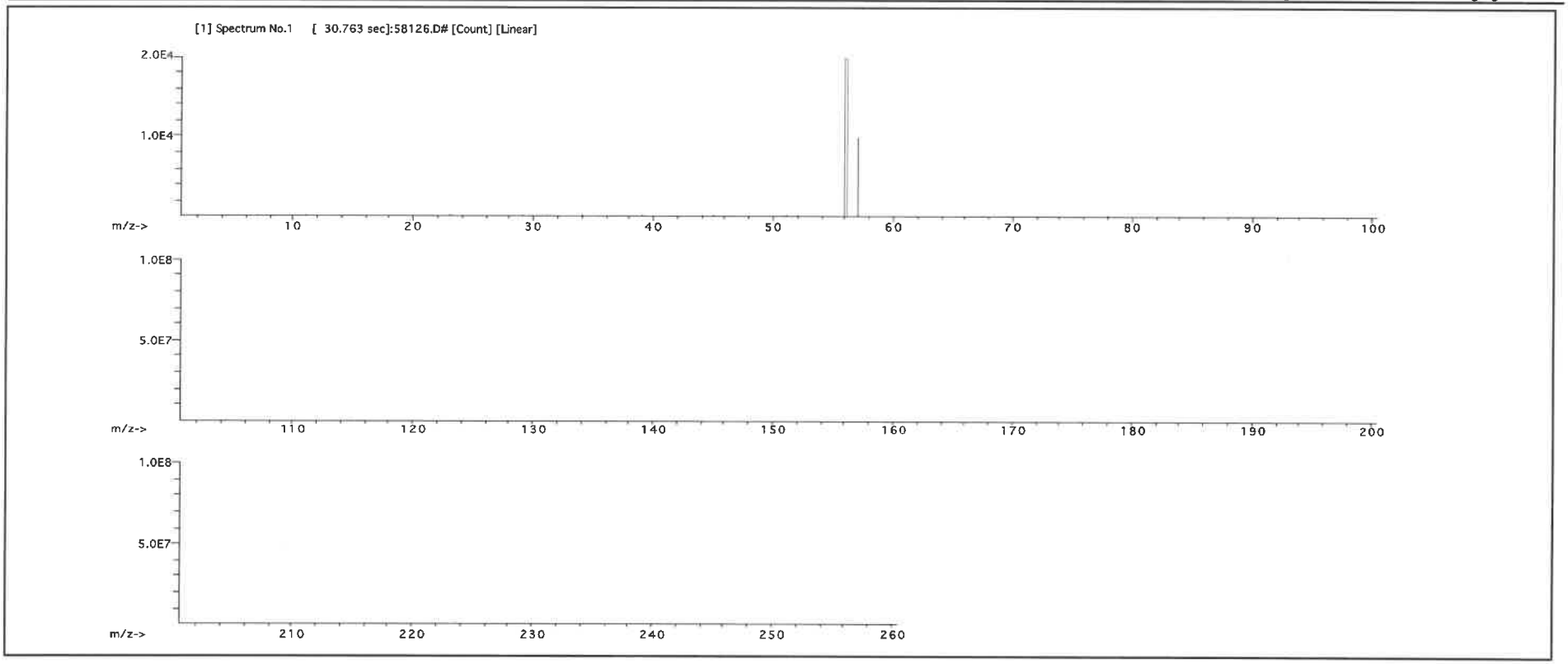
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**		**Lot #**		
Lot Number:	**092122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Iron (Fe)**	7.0%	350.0 (mL)	Nitric Acid	
Expiration Date:	092125				
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	092122
Reviewed By:	Pedro L. Rentas	092122

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	2224912-500	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



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	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* 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).

1060

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M5519. M5520 (BH) R:03/17/23

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1061

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

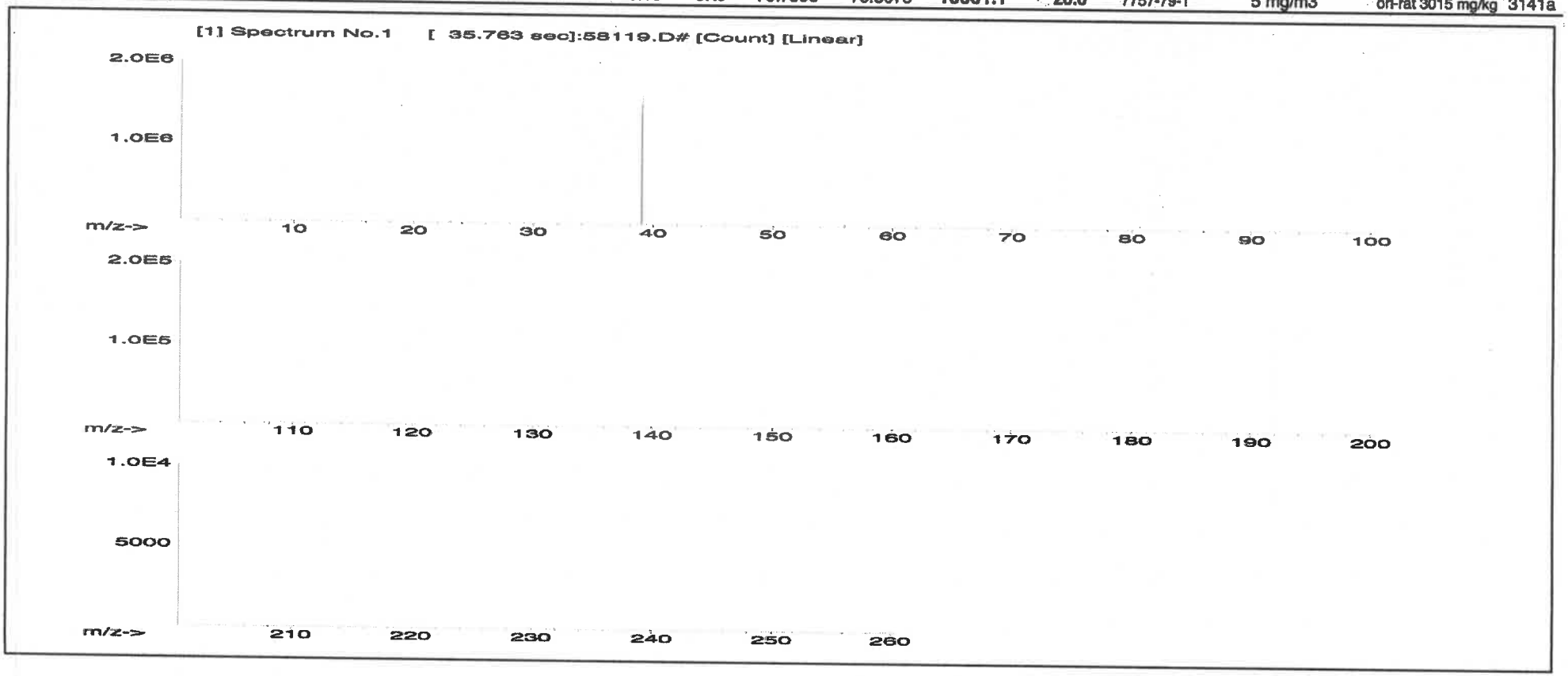
Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



1062

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.
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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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M5658 R ! 8/25/23

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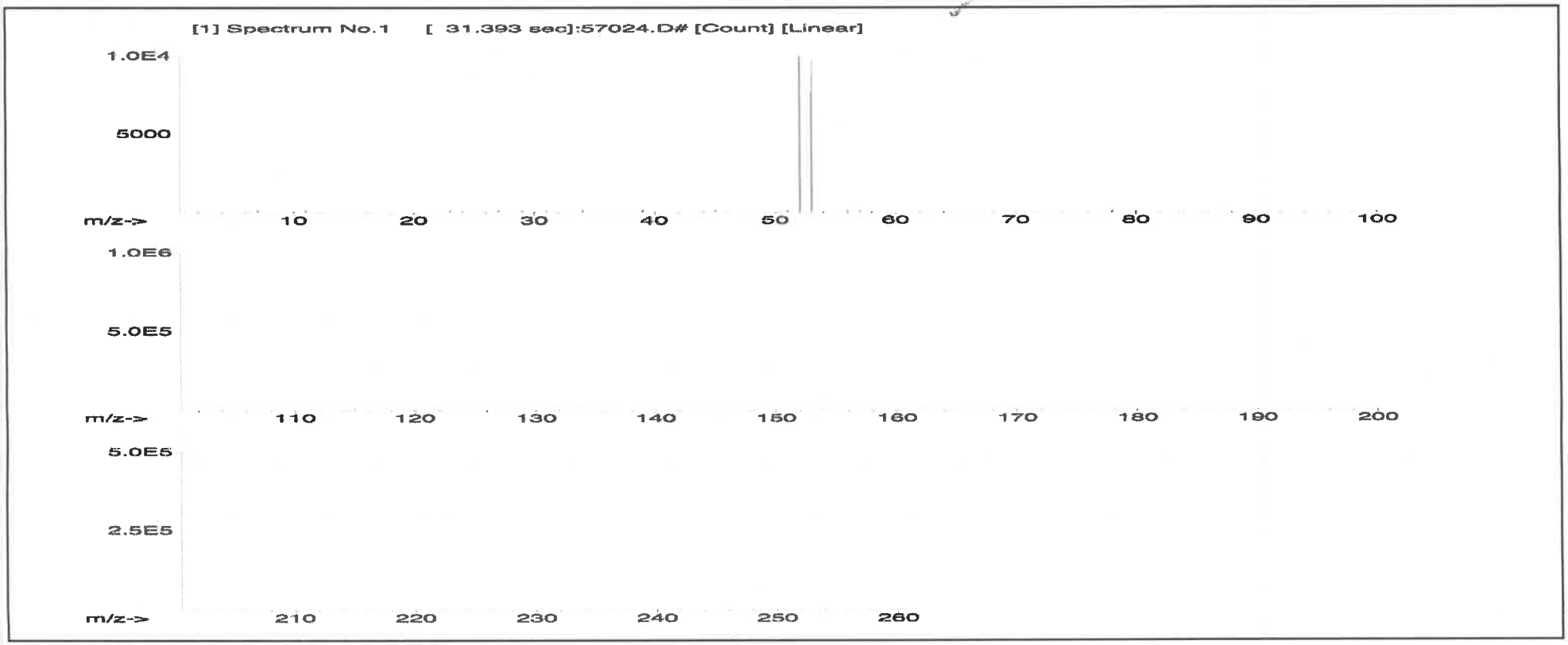
1063

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



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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M5697 R: 10/27/23

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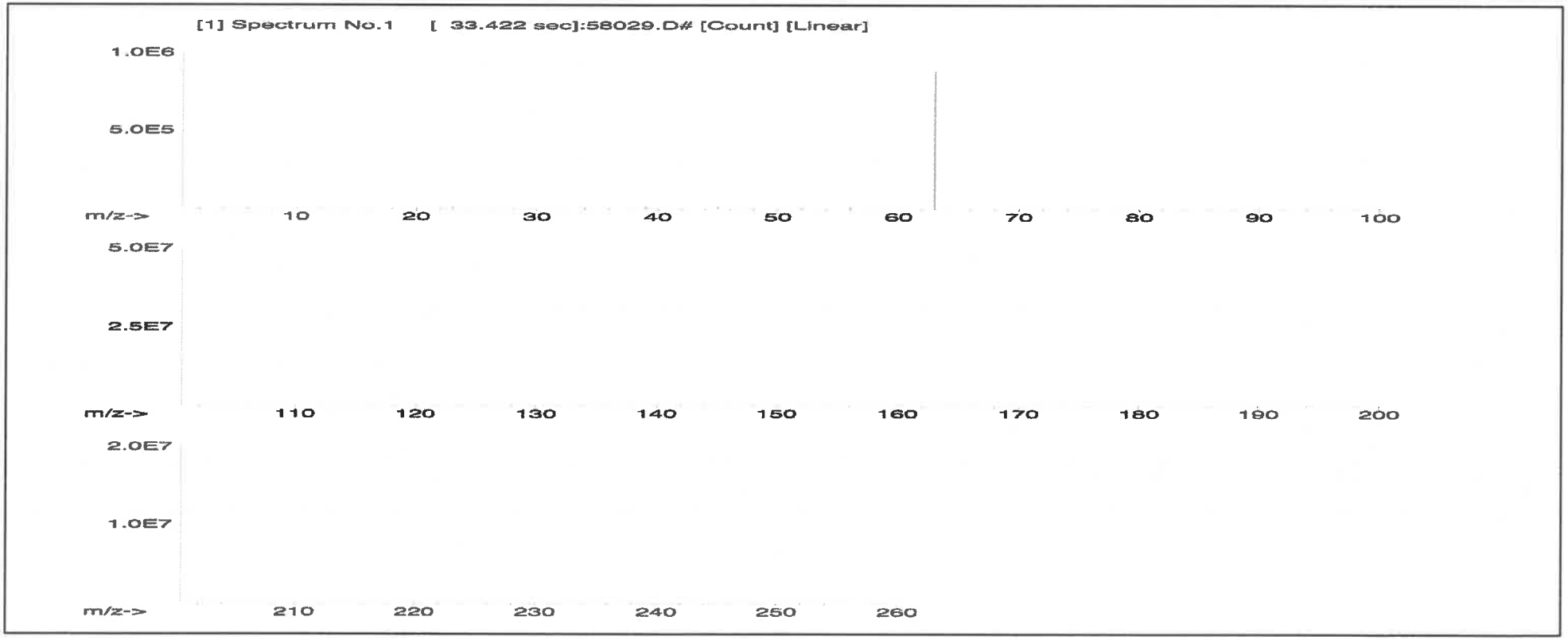
1065

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



1066

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* 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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M5648 R: 10/27/23

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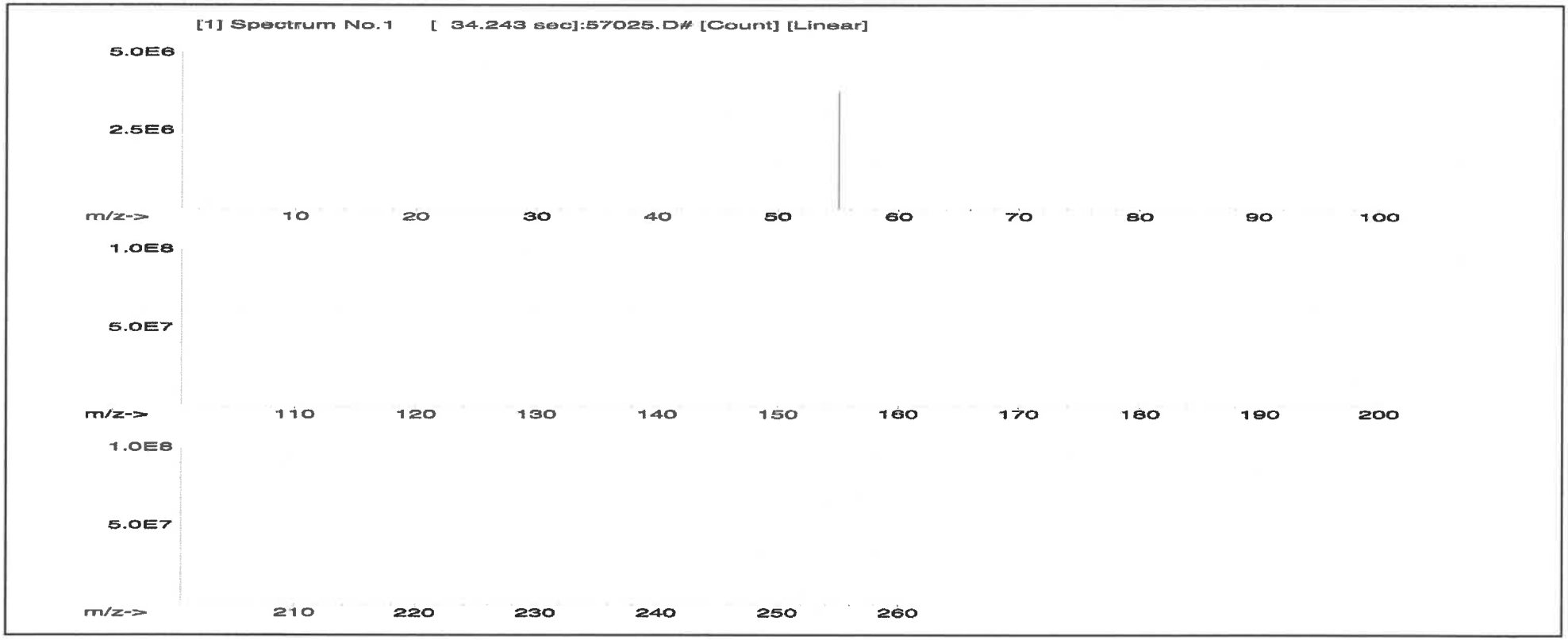
1067

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**58025**	24002546	Nitric Acid		
Lot Number:	**102623**				
Description:	**Manganese (Mn)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	102626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

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. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



1068

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the 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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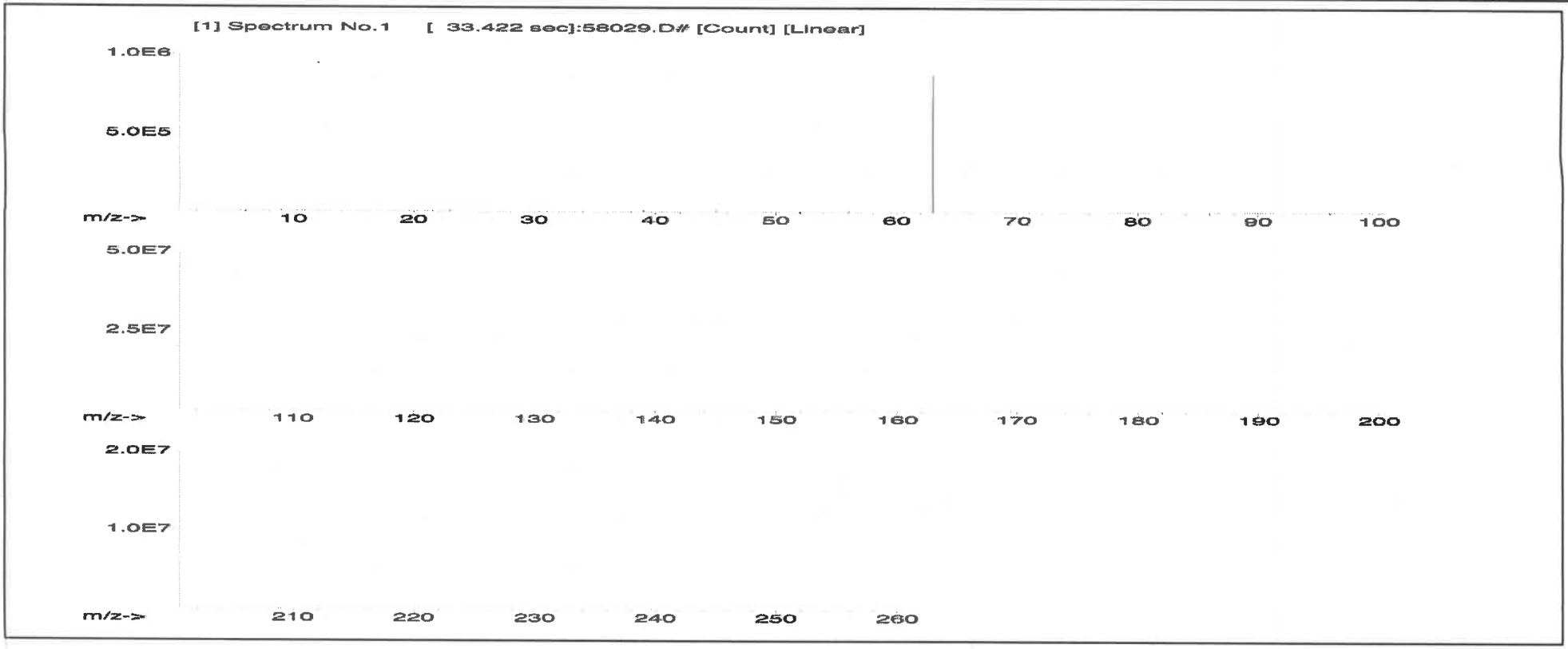
1069

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



10790

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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1071

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

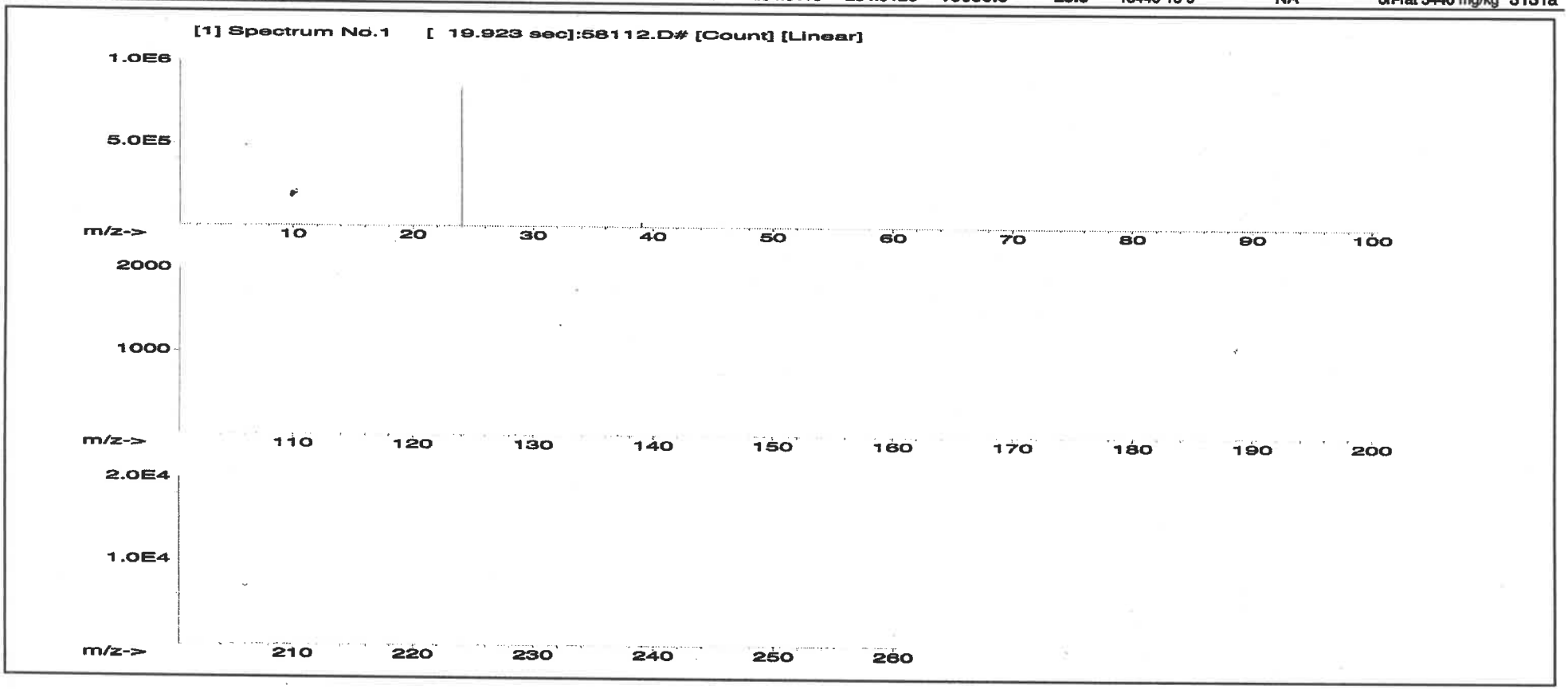
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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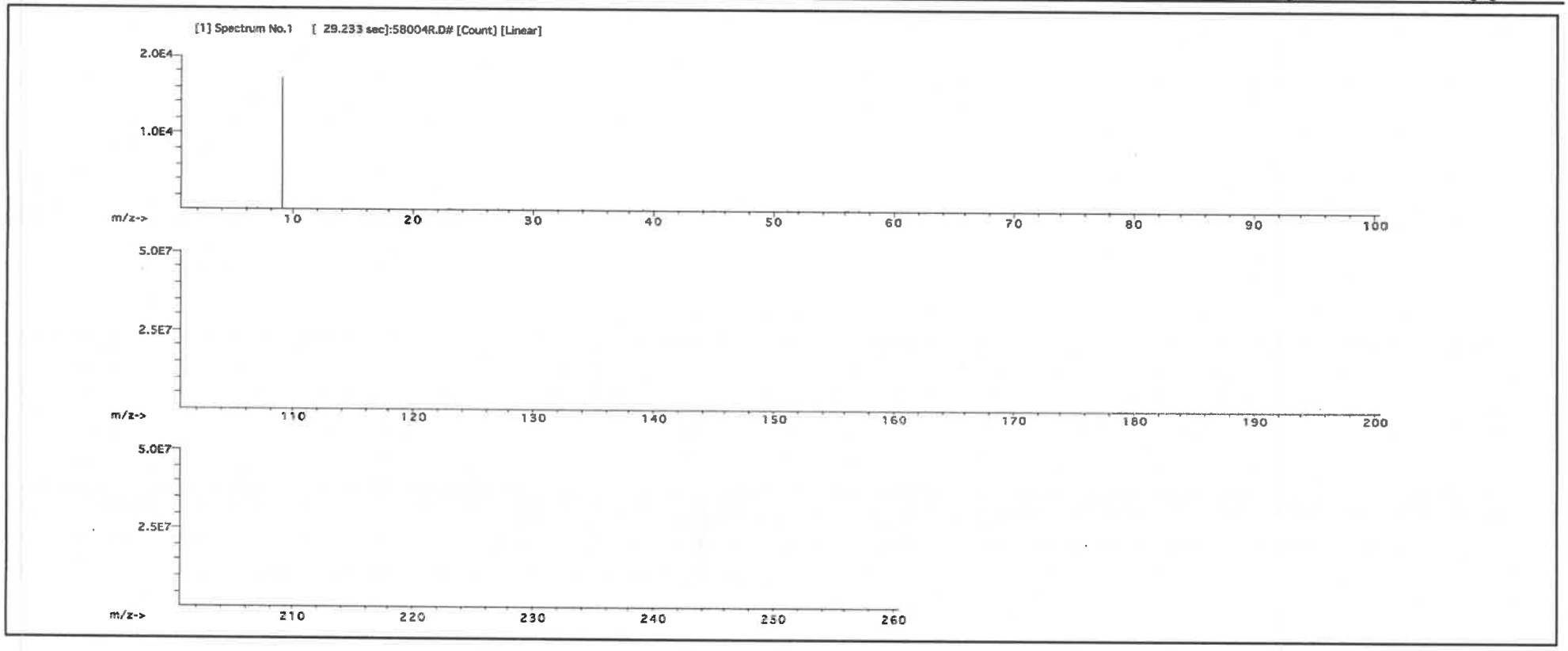
1073

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1074

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1075

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

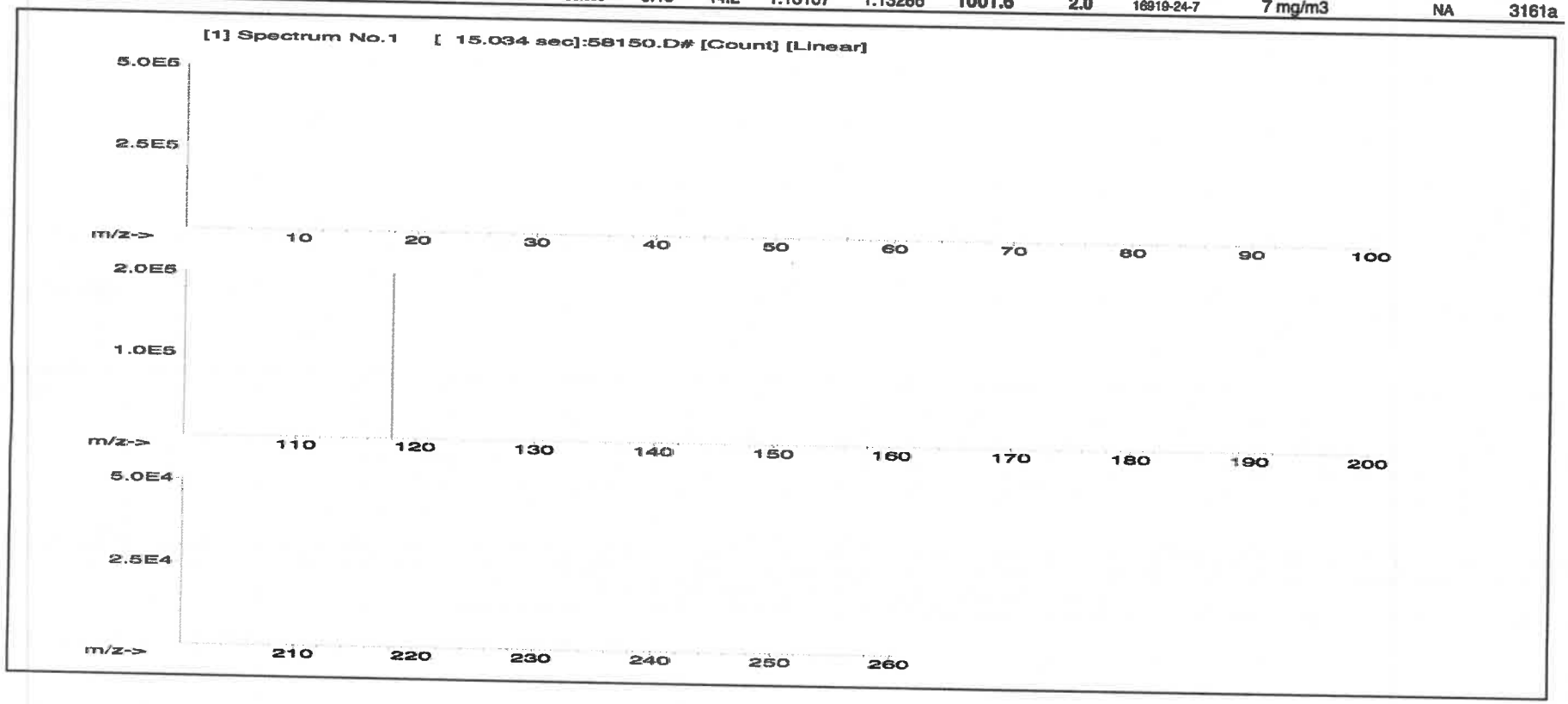
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



10769

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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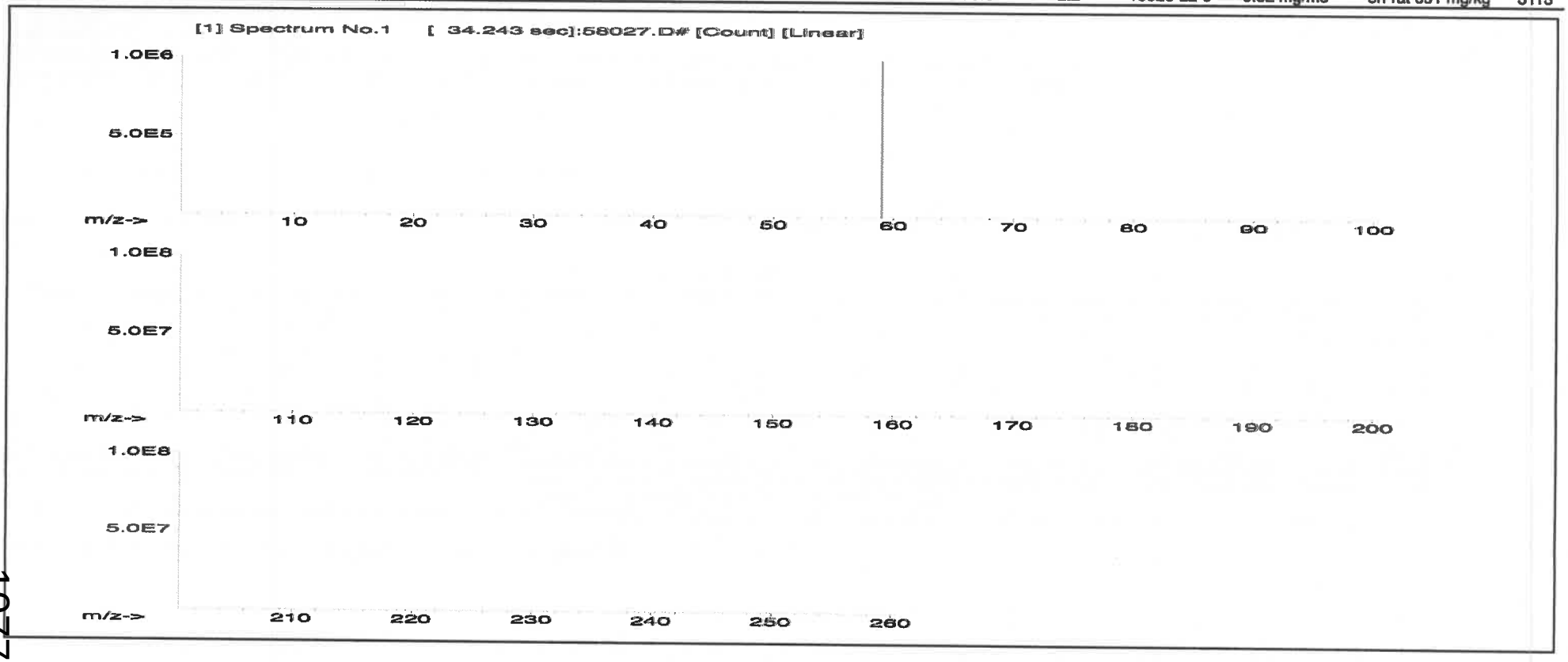
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CERTIFIED WEIGHT REPORT:

		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



1077

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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).

1078

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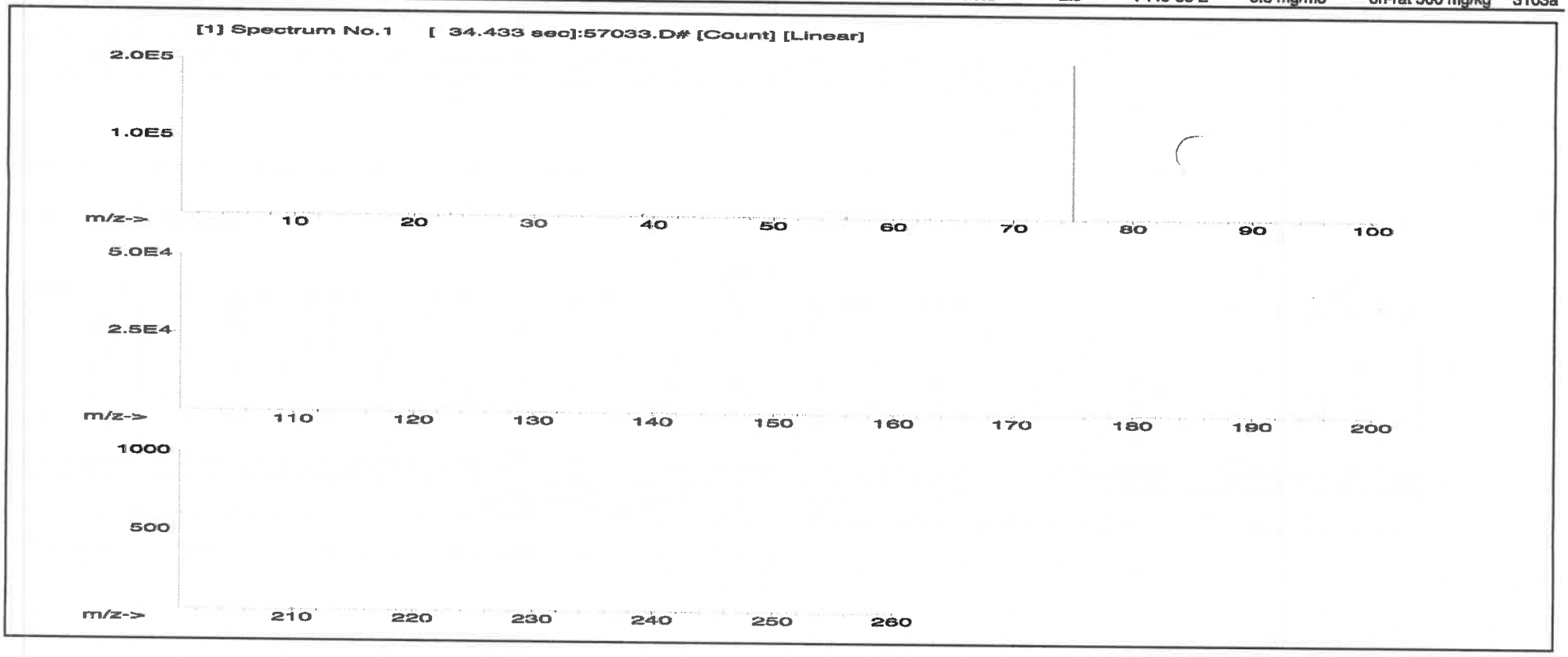
1079

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



10800

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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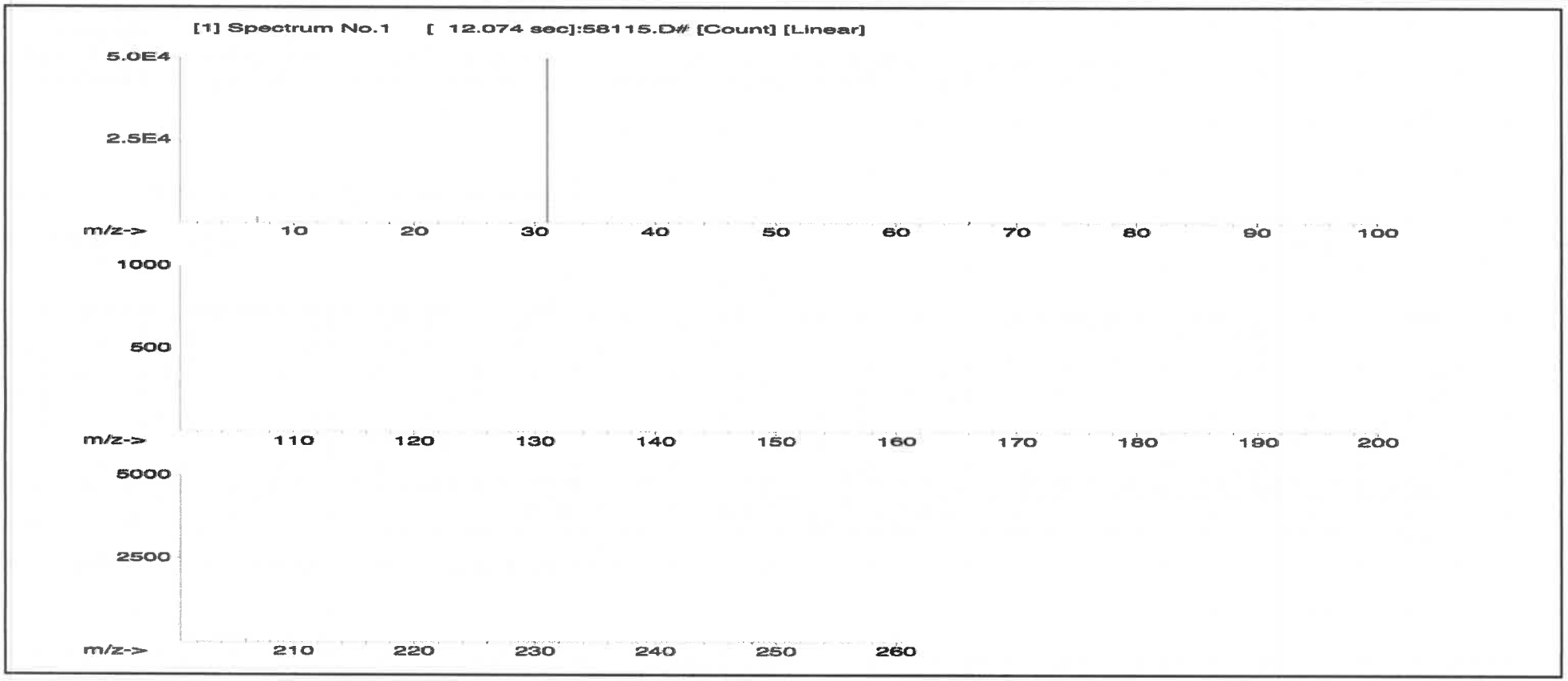
1081

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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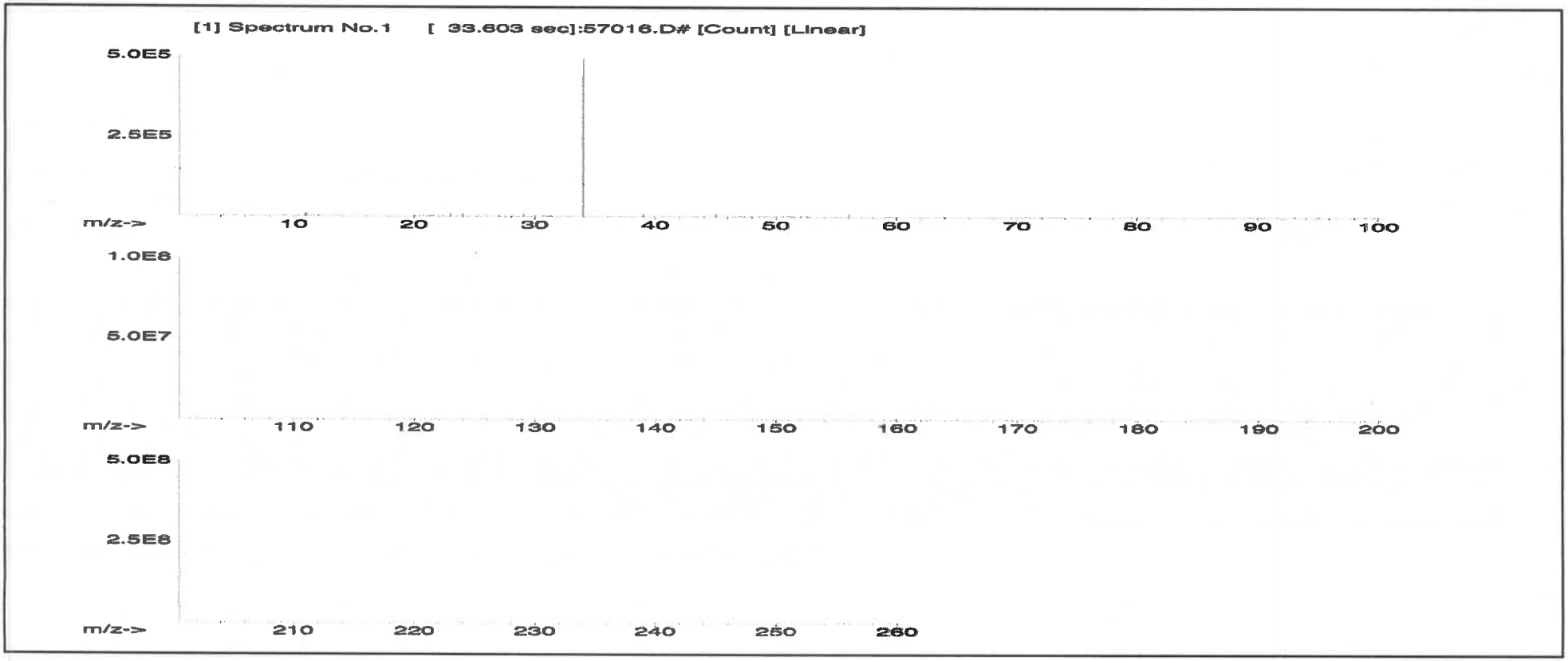
1083

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



1084

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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1085

CERTIFIED WEIGHT REPORT:

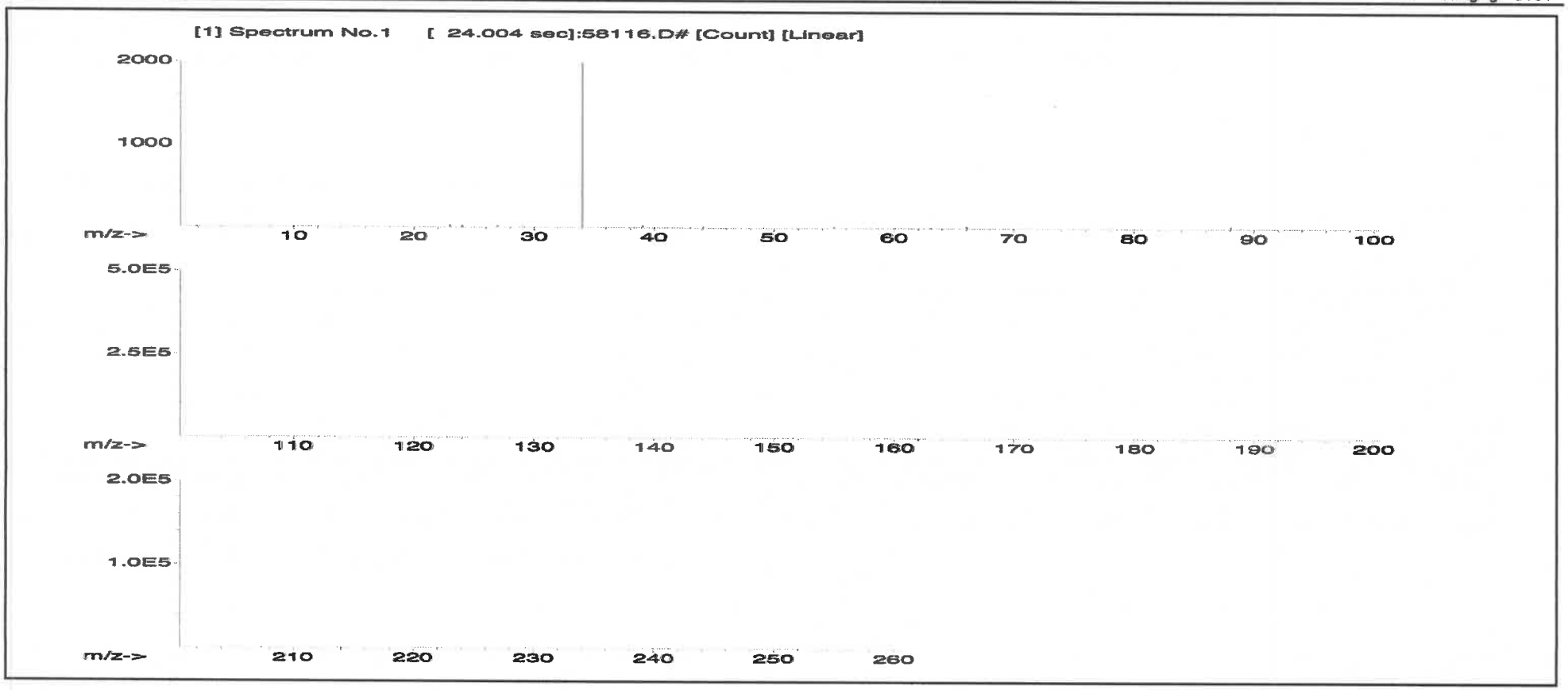
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



1086

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 M.5818

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1087

CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Lot #

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

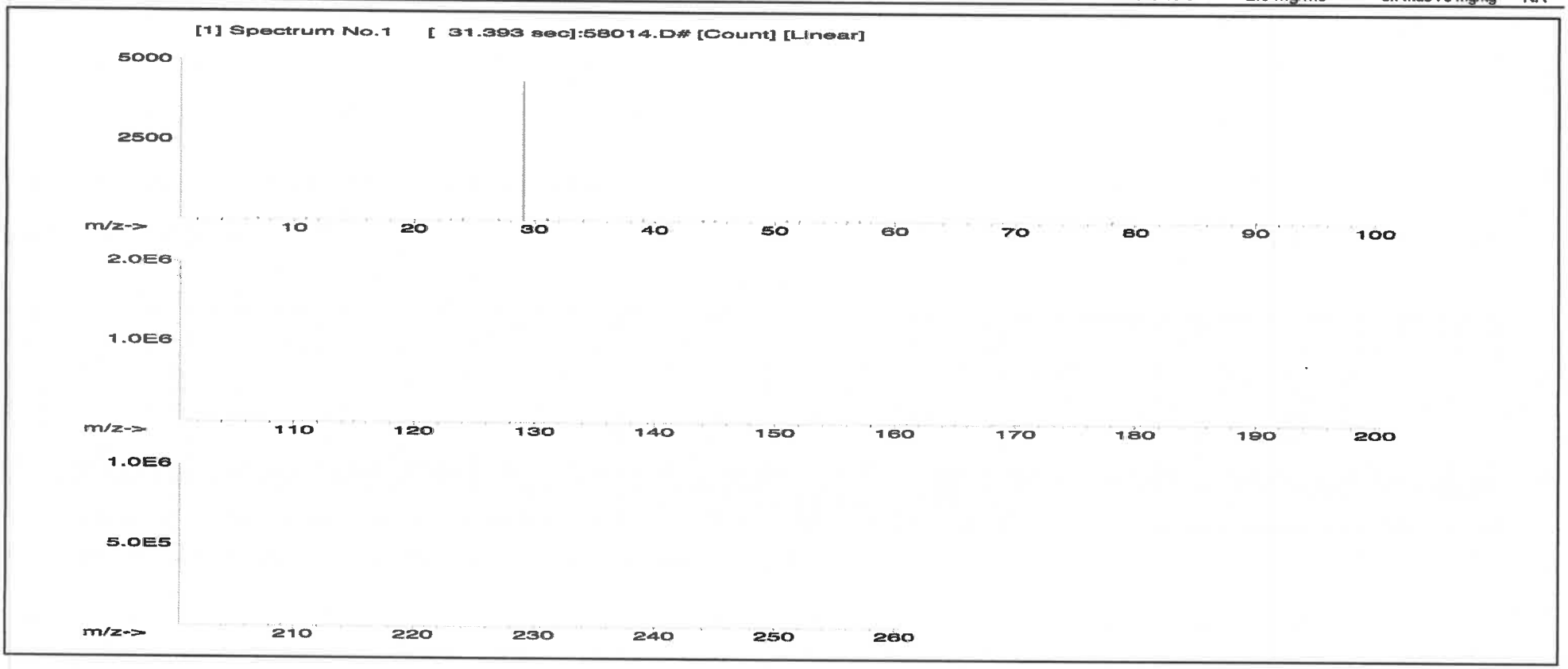
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

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 hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



10888

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	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* 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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1089

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

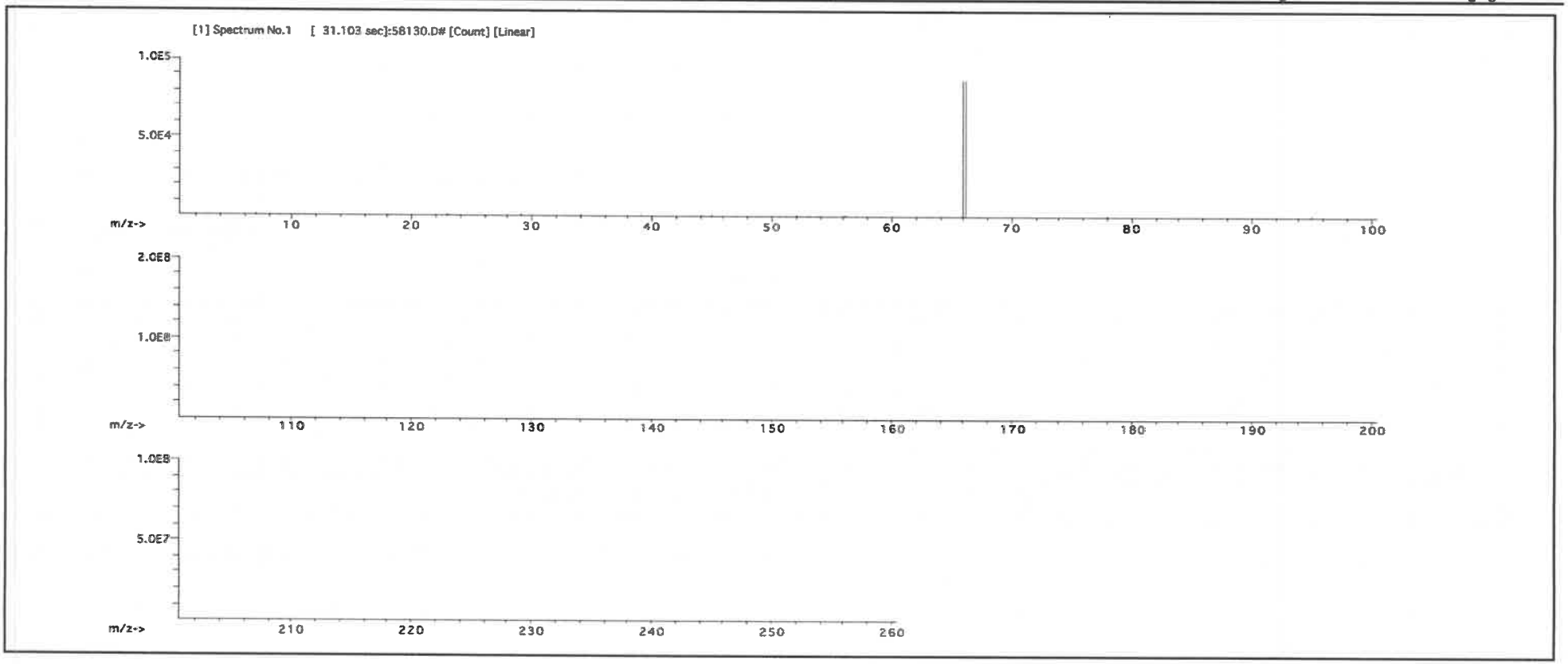
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

		Lot #		
Solvent:	24002546	Nitric Acid		
	2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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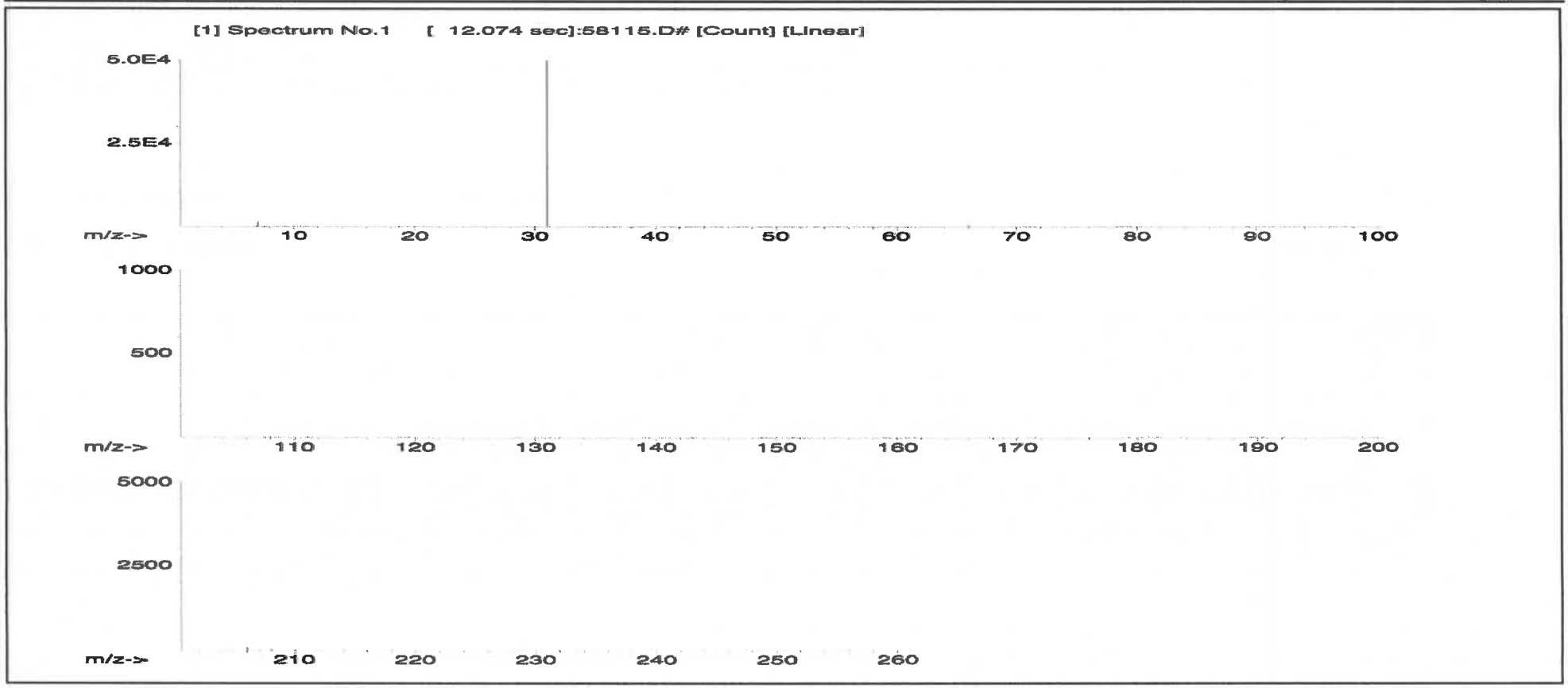
1091

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**091123**				
Description:	**Phosphorous (P)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



1092

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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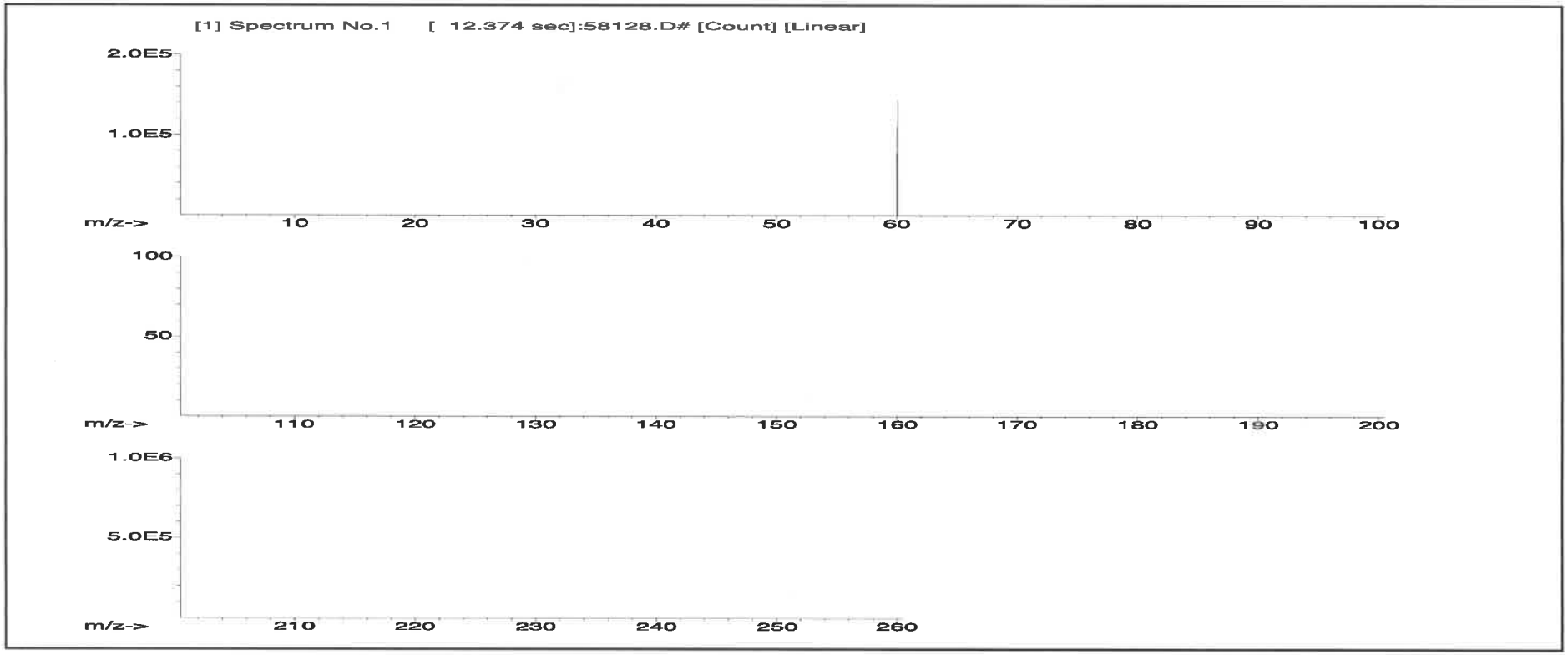
1093

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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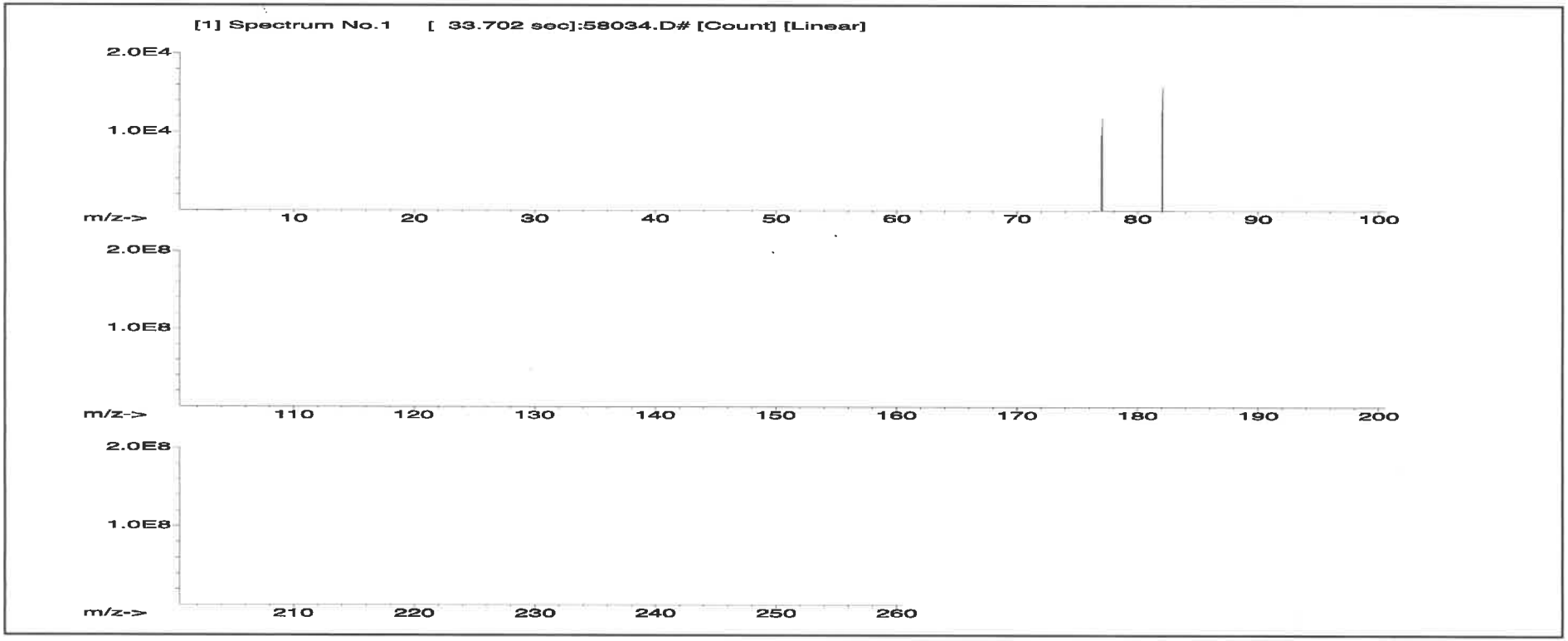
1095

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



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:

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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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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

1097

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1101

M5978, M5979

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

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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:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- 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, H_3PO_4 H_2SO_4 and HNO_3. 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% HNO_3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO_3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H_2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H_2O / HF / H_2SO_4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with $K_2S_2O_7$); Ores (fuse in Pt0 with KF + $K_2S_2O_7$ - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H_2O / HF / H_2SO_4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certified Reference Material CRM

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57092**	24002546	Nitric Acid	
Lot Number:	**060724**			
Description:	**Uranium (U)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060727			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

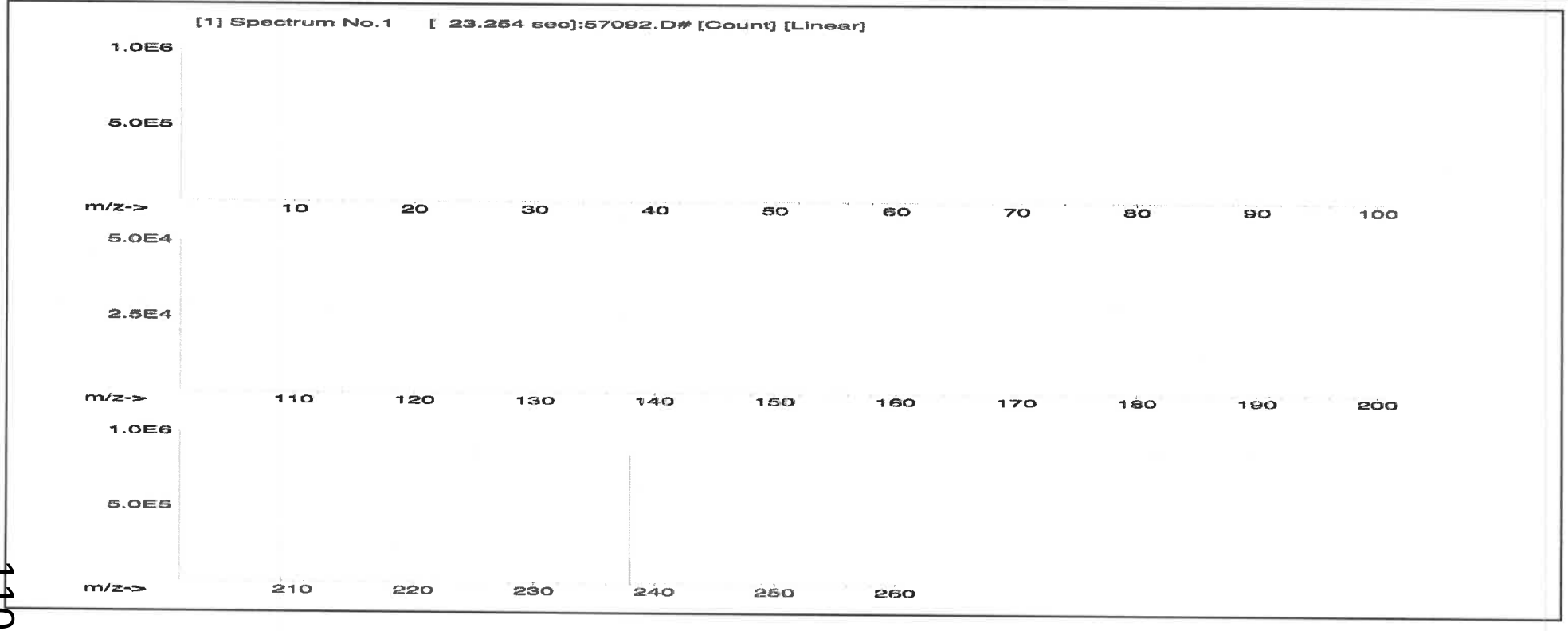
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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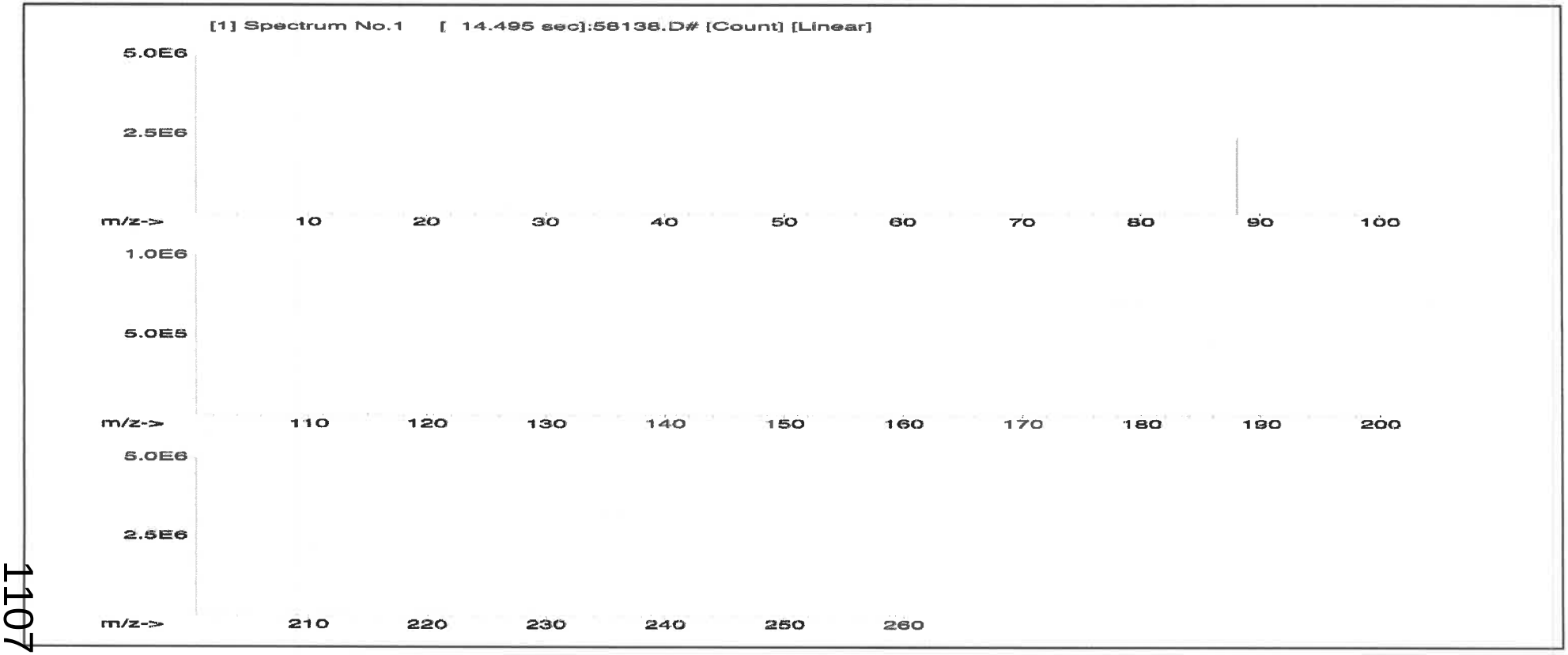
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**			**Lot #**	
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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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	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5983 R: 6/11/24

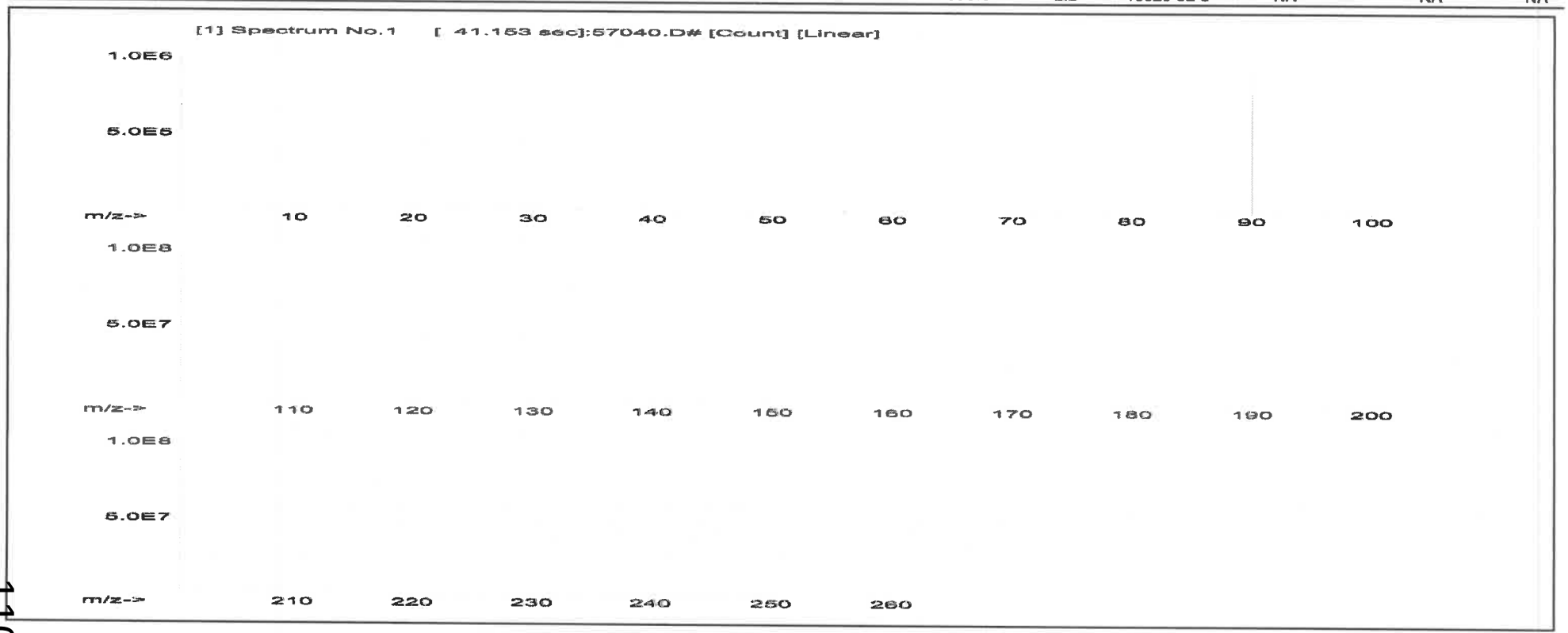
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T) = Target analyte

Physical Characterization:

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

Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

R: 2/22/2024
M5999

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

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ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R 18/19/24, M60055

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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

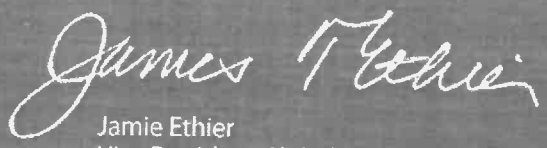
1119

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1120

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

M6126

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1123

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

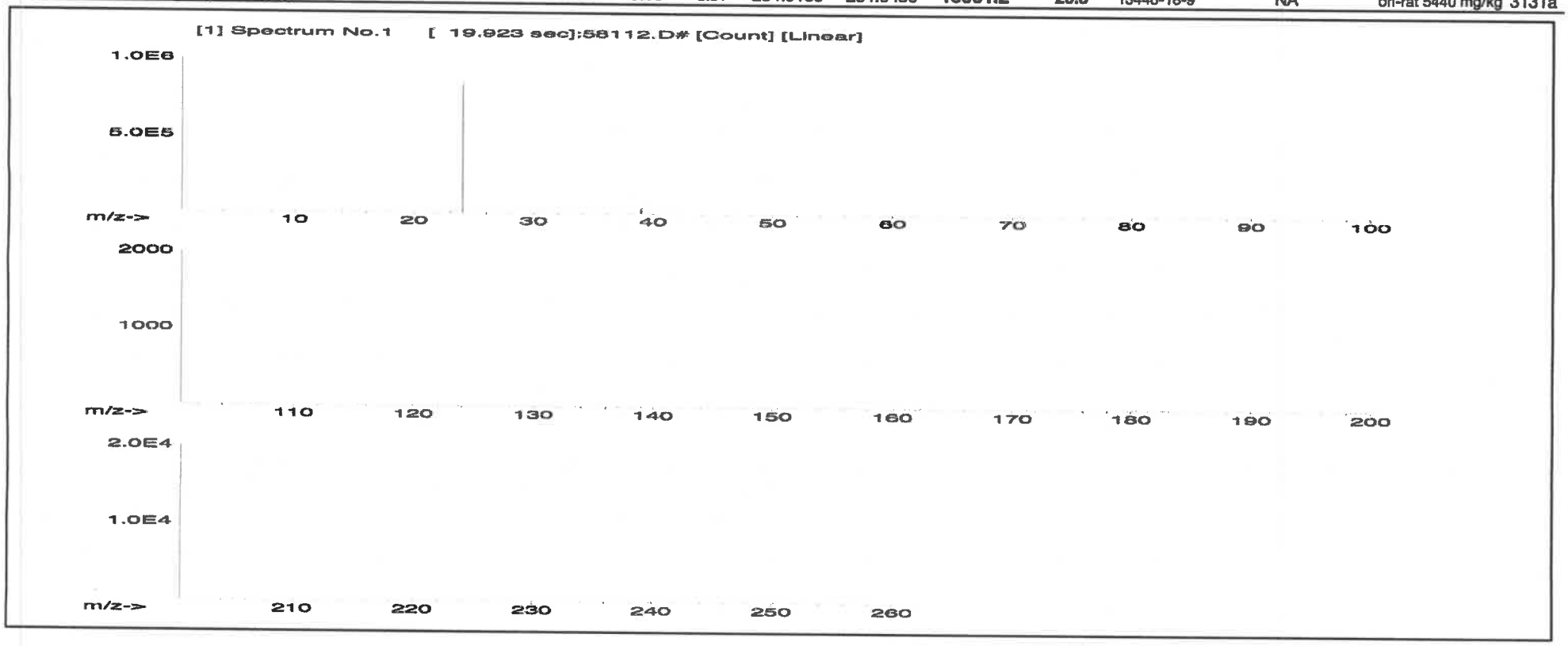
M 6127

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



1124

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

1125

CERTIFIED WEIGHT REPORT:

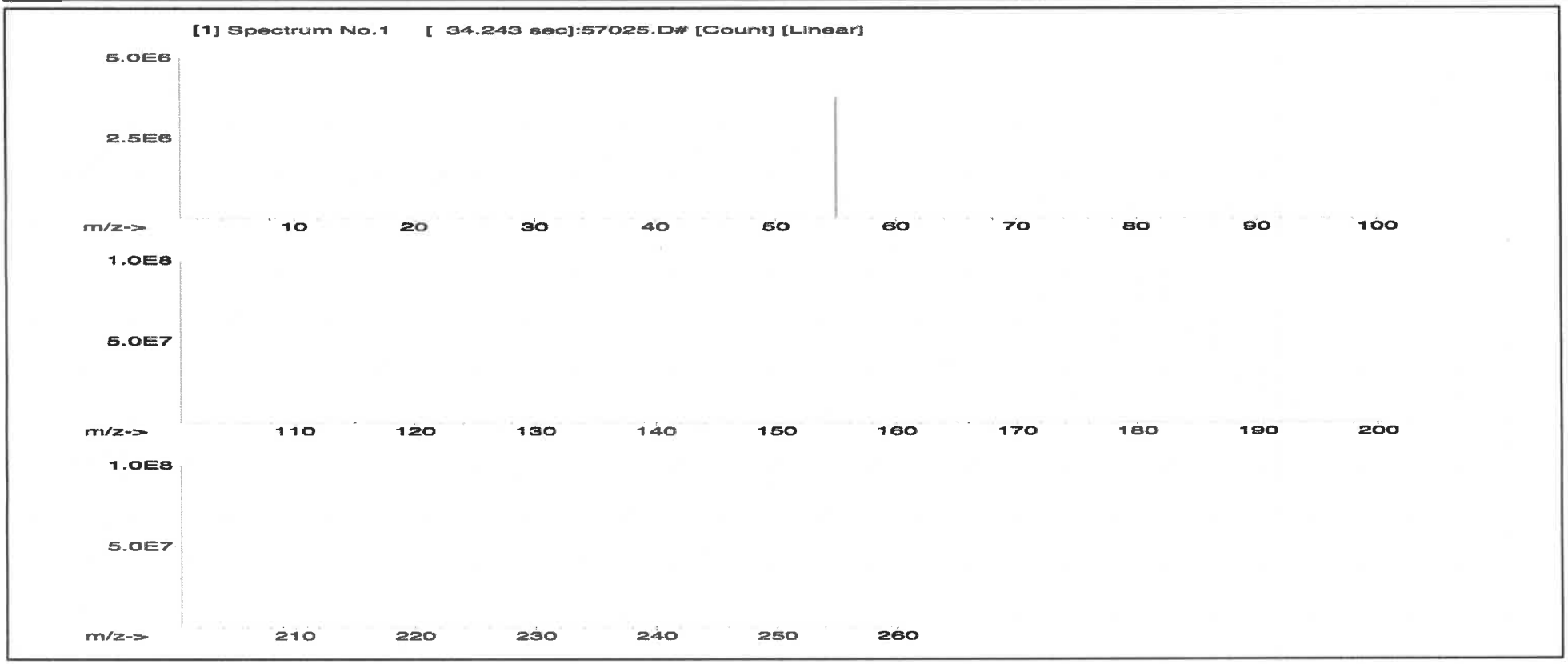
R->1/13/28

M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

Giovanni Esposito		
Formulated By:	Giovanni Esposito	101124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



1126

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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AR-1539 Certificate Number
https://Absolutestandards.com

1127

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

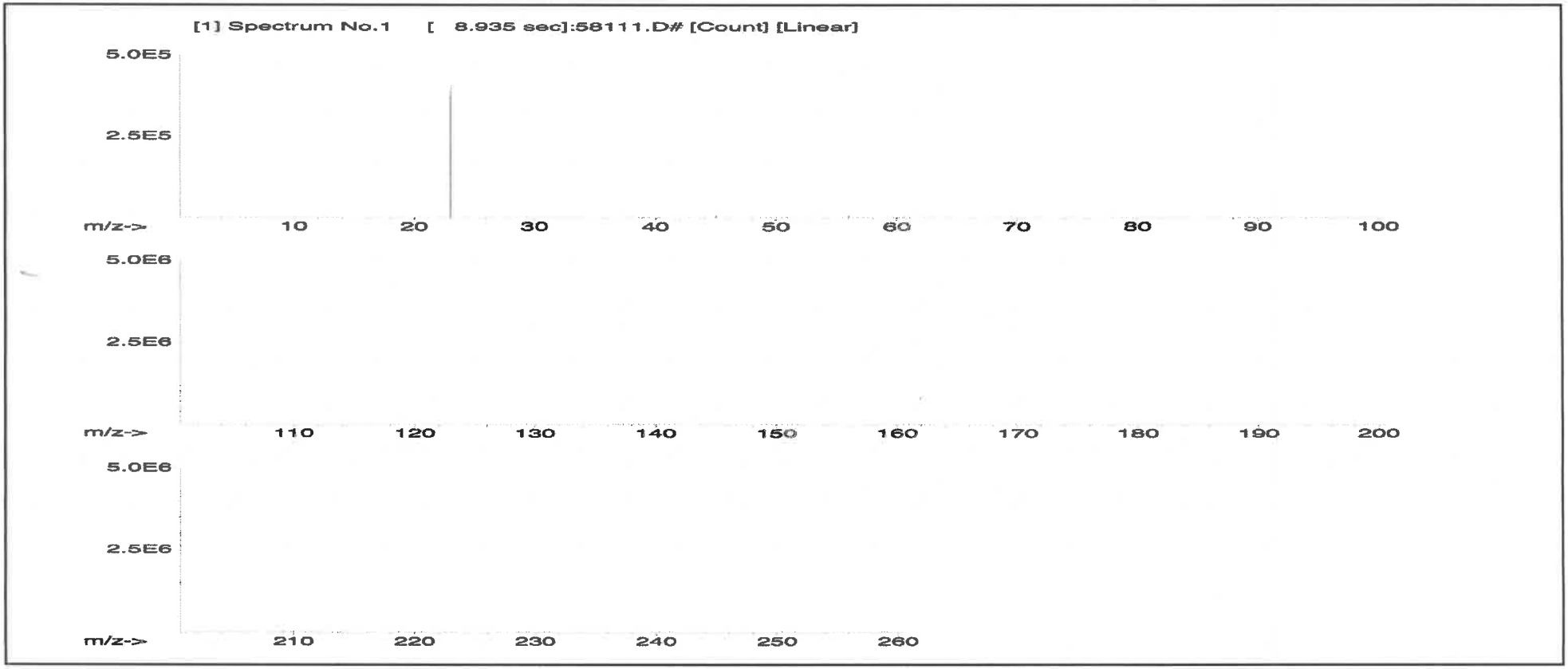
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
		5E-05	Balance Uncertainty

Aleah O'Brady

Formulated By: Aleah O'Brady 122223

Reviewed By: Pedro L. Rentas 122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



11128

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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:

1129

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(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
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Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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R: 01/03/24 M5802, M5803

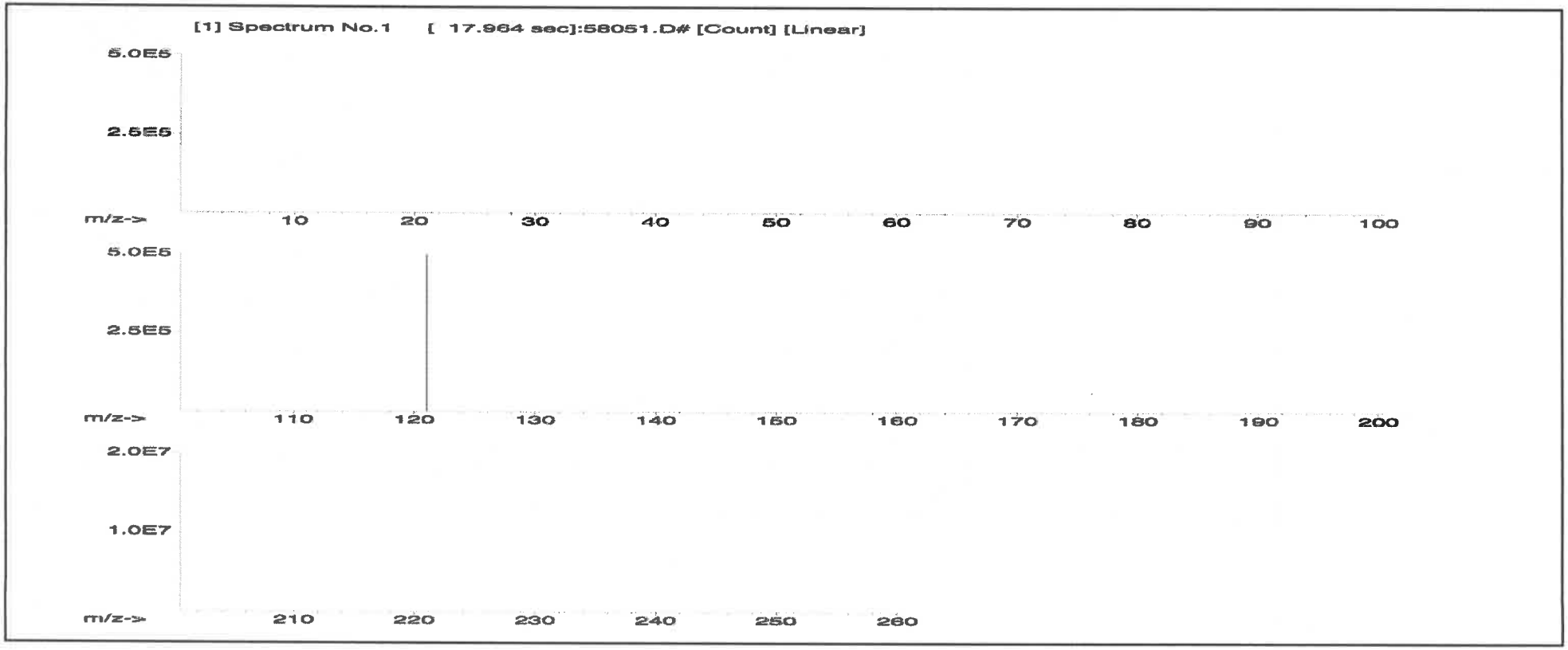
1137

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57051**	24002546	Nitric Acid		
Lot Number:	**120523**				
Description:	**Antimony (Sb)**				
		2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	120526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



11138

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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R: 8/5/24

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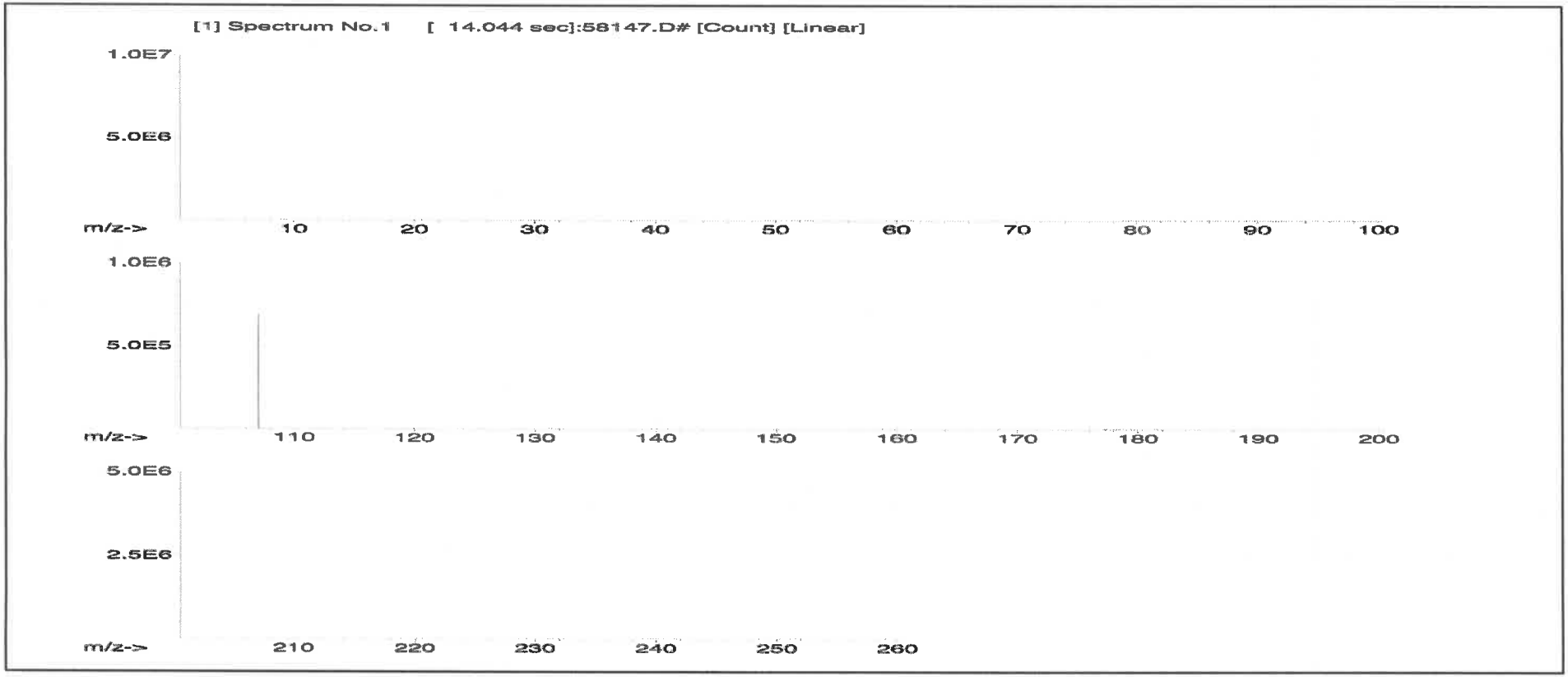
1139

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



1140

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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R: 03/16/23 M5473, M5474, M5475, M5476

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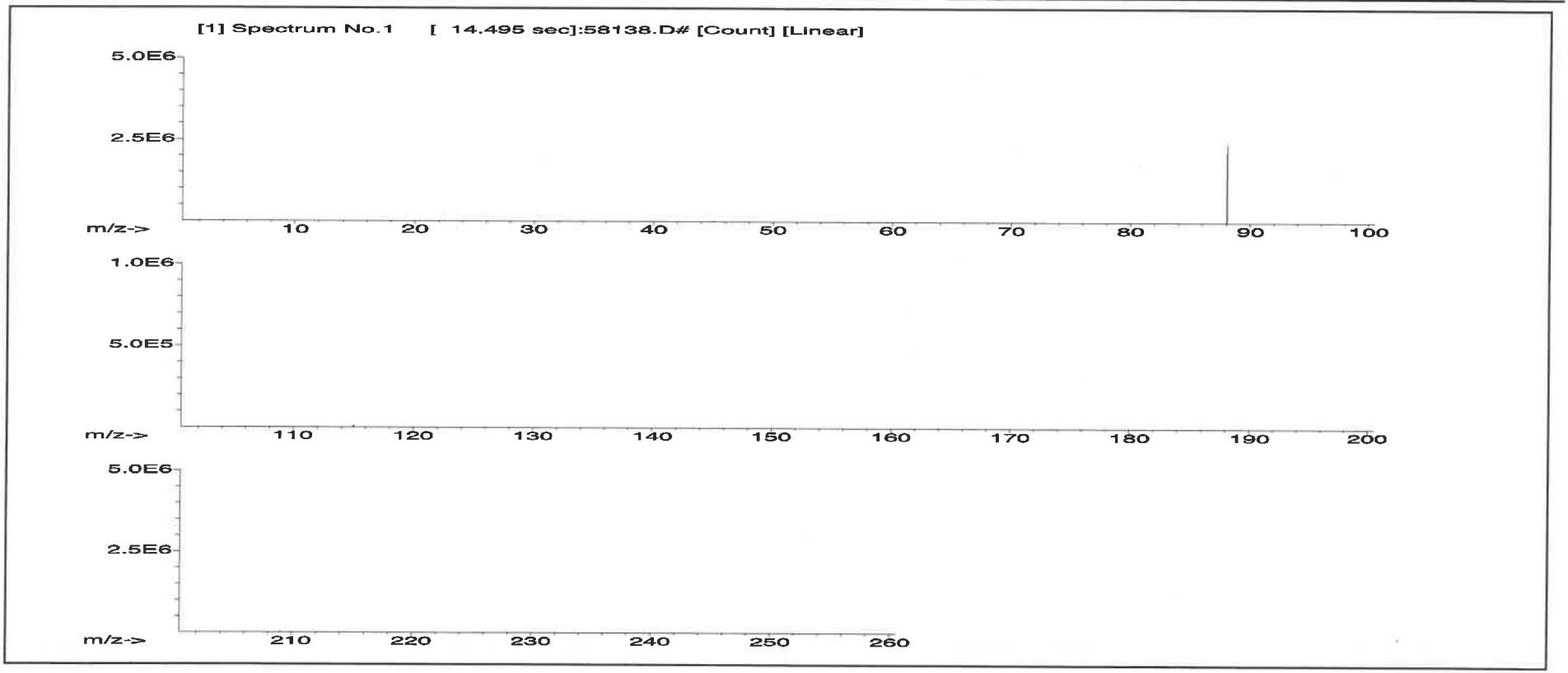
11141

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1142

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1143

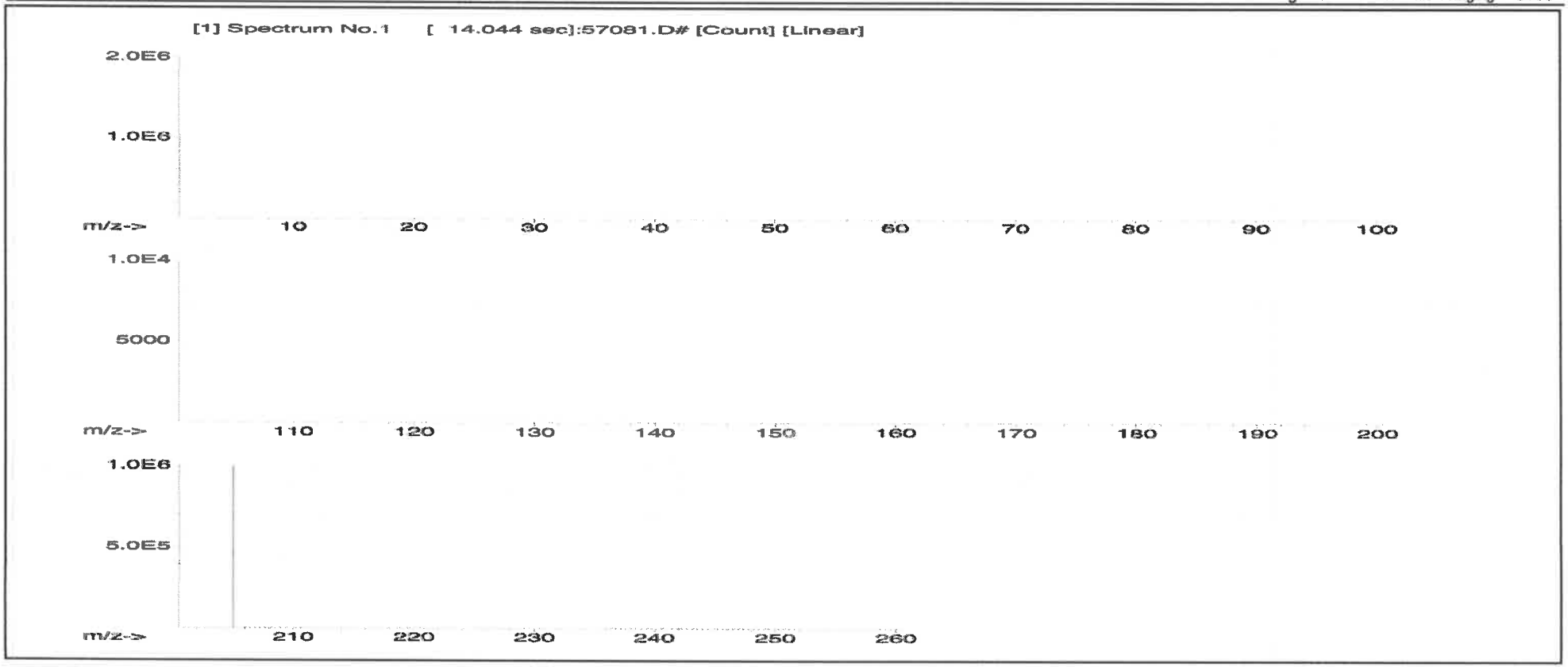
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



1144

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

1145

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		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	

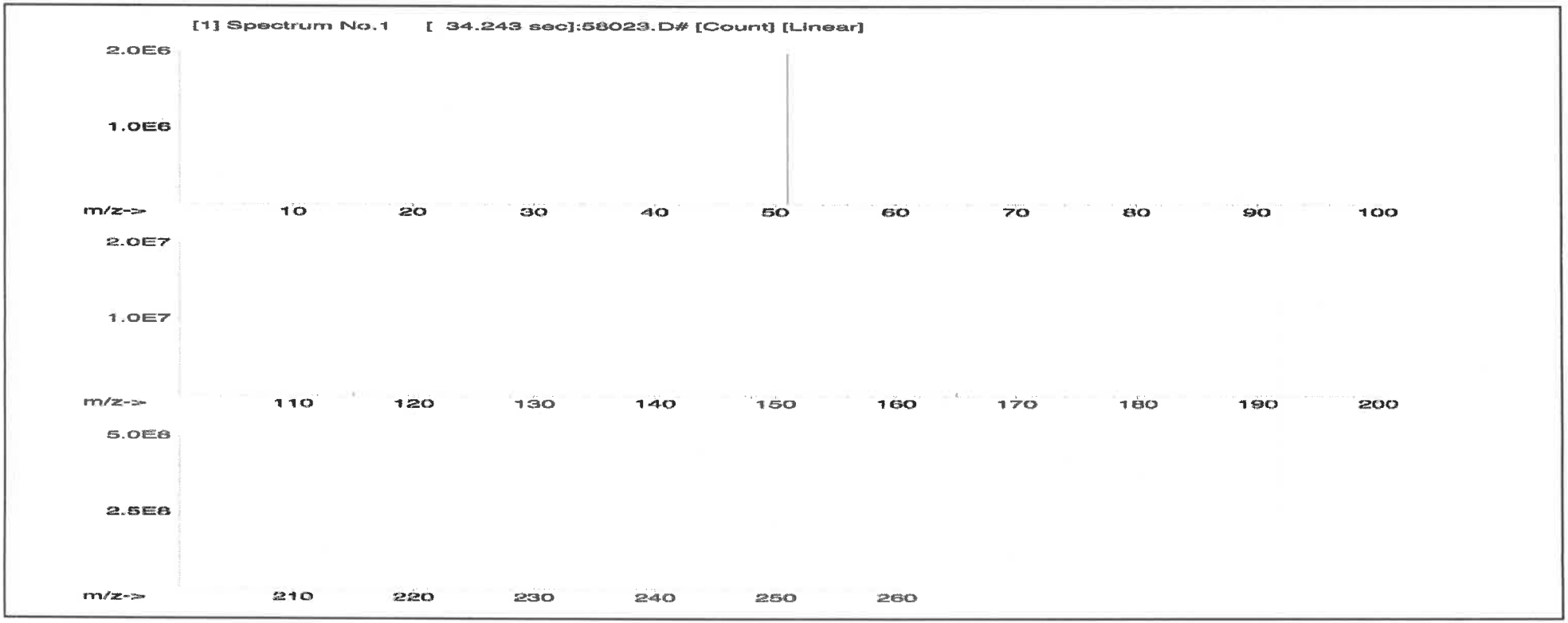
Aleah O'Brady

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



1146

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166076

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : MC0B99

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: 01/16/2025 **Time :** 10:15 **Temp :** 96 °C

End Digest Date: 01/16/2025 **Time :** 12:20 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLD.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP83670
Spike Sol. B	0.50	MP84074
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP84041
1:1 HCL	050	MP83499
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#55 : 96

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/16/25 13:20	SLD. met digestion.	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166076

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166076BL	PBW076	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	9
PB166076BS	LCS076	<2	50	50	Colorless	Colorless	Clear	Clear	MP83670	10
Q1085-01	MC0B99	<2	50	50	Yellow	Colorless	Clear	Clear	N/A	11
Q1085-02	MC0BA0	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	12
Q1085-03	MC0BA1	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	13
Q1085-04	MC0BA2	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	14
Q1085-05	MC0BA2D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	15
Q1085-06	MC0BA2S	<2	50	50	Colorless	Colorless	Clear	Clear	MP84074	16
Q1085-07	MC0BA4	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	17

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

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134335

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:04:00 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:39:29 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP83670
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	01/17/25 11:46		Jaswal	OK
2	S00	S0	CAL1	01/17/25 12:32		Jaswal	OK
3	S02	S02	CAL3	01/17/25 12:38		Jaswal	OK
4	S03	S03	CAL4	01/17/25 12:42		Jaswal	OK
5	S04	S04	CAL5	01/17/25 12:45		Jaswal	OK
6	S05	S05	CAL6	01/17/25 12:48		Jaswal	OK
7	S06	S06	CAL7	01/17/25 12:51		Jaswal	OK
8	S07	S07	CAL8	01/17/25 12:53		Jaswal	OK
9	S08	S08	CAL9	01/17/25 12:56		Jaswal	OK
10	ICV001	ICV001	ICV	01/17/25 13:13	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	01/17/25 13:34	Inst. paused for review	Jaswal	OK
12	ICSA001	ICSA001	ICSA	01/17/25 13:41	Inst. paused for review	Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	01/17/25 13:44		Jaswal	OK
14	CCV001	CCV001	CCV	01/17/25 13:47		Jaswal	OK
15	CCB001	CCB001	CCB	01/17/25 13:54	Inst. paused for review	Jaswal	OK
16	P1187-01	LOD-MDL-SOIL-01-Q	SAM	01/17/25 14:16	Not Use	Jaswal	Not Ok
17	P1187-03RE	MDL-SOIL-03-QT1-20	SAM	01/17/25 14:20	Not Use	Jaswal	Not Ok
18	P1187-07	LOD-MDL-WATER-01	SAM	01/17/25 14:23	Not Use	Jaswal	Not Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134335

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:04:00 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:39:29 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP83670
Chk Standard	MP84057,MP84056

19	P1187-09	MDL-WATER-03-QT1	SAM	01/17/25 14:26	Not Use	Jaswal	Not Ok
20	P1187-10	LOD-MDL-WATER-04	SAM	01/17/25 14:30	Not Use	Jaswal	Not Ok
21	P1187-12	MDL-WATER-06-QT1	SAM	01/17/25 14:33	Not Use	Jaswal	Not Ok
22	P1187-03	MDL-SOIL-03-QT1-20	SAM	01/17/25 14:37	Not Use	Jaswal	Not Ok
23	P1601-02	MDL-WATER-QT1-20	SAM	01/17/25 14:41	Not Use	Jaswal	Not Ok
24	P1601-04	MDL-SOIL-QT1-2024	SAM	01/17/25 14:44	Not Use	Jaswal	Not Ok
25	PBW	PBW	MB	01/17/25 14:48	Not Use	Jaswal	Not Ok
26	CCV002	CCV002	CCV	01/17/25 14:51		Jaswal	OK
27	CCB002	CCB002	CCB	01/17/25 14:54		Jaswal	OK
28	LCSW	LCSW	LCS	01/17/25 15:25	Not Use	Jaswal	Not Ok
29	PBS	PBS	MB	01/17/25 15:28	Not Use	Jaswal	Not Ok
30	LCSS	LCSS	LCS	01/17/25 15:32	Not Use	Jaswal	Not Ok
31	PBS 6020	PBS 6020	MB	01/17/25 15:35	Not Use	Jaswal	Not Ok
32	LCSS 6020-01	LCSS 6020-01	LCS	01/17/25 15:38	Not Use	Jaswal	Not Ok
33	PBW 6020	PBW 6020	MB	01/17/25 15:41	Not Use	Jaswal	Not Ok
34	LCSS 6020	LCSS 6020	LCS	01/17/25 15:45	Not Use	Jaswal	Not Ok
35	PBW 200.8	PBW 200.8	MB	01/17/25 15:47	Not Use	Jaswal	Not Ok
36	LCSW 200.8	LCSW 200.8	LCS	01/17/25 15:51	Not Use	Jaswal	Not Ok
37	CCV003	CCV003	CCV	01/17/25 15:53		Jaswal	OK
38	CCB003	CCB003	CCB	01/17/25 15:56		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134335

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:04:00 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:39:29 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP83670
Chk Standard	MP84057,MP84056

39	PB166066BL	PBW066	MB	01/17/25 16:47	Not Usen	Jaswal	Not Ok
40	PB166066BS	LCS066	LCS	01/17/25 16:50	Not Use	Jaswal	Not Ok
41	Q1092-01DL	427	SAM	01/17/25 16:53	Not Use	Jaswal	Not Ok
42	Q1094-03DL	3181	SAM	01/17/25 16:57	Not Use	Jaswal	Not Ok
43	Q1094-03DUPDL	3181	DUP	01/17/25 17:00	Not Use	Jaswal	Not Ok
44	Q1094-03LDL	3181L	SD	01/17/25 17:03	Not Use	Jaswal	Not Ok
45	Q1094-03MSDL	3181	MSD	01/17/25 17:06	Not Use	Jaswal	Not Ok
46	Q1094-03MSDDL	3181	MSD	01/17/25 17:09	Not Use	Jaswal	Not Ok
47	Q1094-03ADL	3181A	PS	01/17/25 17:12	Not Use	Jaswal	Not Ok
48	CCV004	CCV004	CCV	01/17/25 17:21	Inst. paused for review	Jaswal	OK
49	CCB004	CCB004	CCB	01/17/25 17:24		Jaswal	OK
50	PB166076BL	PBW076	MB	01/17/25 17:36		Jaswal	OK
51	PB166076BS	LCS076	LCS	01/17/25 17:40		Jaswal	OK
52	Q1085-01	MC0B99	SAM	01/17/25 17:43	Cr High	Jaswal	Dilution
53	Q1085-02	MC0BA0	SAM	01/17/25 17:46		Jaswal	OK
54	Q1085-03	MC0BA1	SAM	01/17/25 17:50		Jaswal	OK
55	Q1085-04	MC0BA2	SAM	01/17/25 17:53		Jaswal	OK
56	Q1085-05	MC0BA2D	DUP	01/17/25 17:56		Jaswal	OK
57	Q1085-04L	MC0BA2L	SD	01/17/25 17:59		Jaswal	OK
58	Q1085-06	MC0BA2S	MS	01/17/25 18:03		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134335

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:04:00 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:39:29 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP83670
Chk Standard	MP84057,MP84056

59	Q1085-07	MC0BA4	SAM	01/17/25 18:06		Jaswal	OK
60	CCV005	CCV005	CCV	01/17/25 18:13		Jaswal	OK
61	CCB005	CCB005	CCB	01/17/25 18:16		Jaswal	OK

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

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134353

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:23:06 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:24:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE002	TUNE	01/20/25 12:26		Jaswal	OK
2	S00	S0	CAL1	01/20/25 13:16		Jaswal	OK
3	S02	S02	CAL3	01/20/25 13:23		Jaswal	OK
4	S03	S03	CAL4	01/20/25 13:26		Jaswal	OK
5	S04	S04	CAL5	01/20/25 13:30		Jaswal	OK
6	S05	S05	CAL6	01/20/25 13:33		Jaswal	OK
7	S06	S06	CAL7	01/20/25 13:35		Jaswal	OK
8	S07	S07	CAL8	01/20/25 13:38		Jaswal	OK
9	S08	S08	CAL9	01/20/25 13:41		Jaswal	OK
10	ICV002	ICV002	ICV	01/20/25 13:45		Jaswal	OK
11	ICB002	ICB002	ICB	01/20/25 13:59	Instrument paused for review	Jaswal	OK
12	ICSA002	ICSA002	ICSA	01/20/25 14:02		Jaswal	OK
13	ICSAB002	ICSAB002	ICSAB	01/20/25 14:07		Jaswal	OK
14	CCV006	CCV006	CCV	01/20/25 14:10		Jaswal	OK
15	CCB006	CCB006	CCB	01/20/25 14:13		Jaswal	OK
16	P2403-01	LOD-MDL-SOIL-01-Q	SAM	01/20/25 14:20	Not used	Jaswal	Not Ok
17	P2403-02	LOQ-SOIL-02-QT2-20	SAM	01/20/25 14:23	Not used	Jaswal	Not Ok
18	P2403-16	LLOQ-SOIL-QT2-202	SAM	01/20/25 14:27	Not used	Jaswal	Not Ok

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

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134353

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:23:06 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:24:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	
Chk Standard	MP84057,MP84056

19	P2403-08	LOQ-WATER-02-QT2	SAM	01/20/25 14:33	Not used	Jaswal	Not Ok
20	P2403-17	LLOQ-WATER-QT2-2	SAM	01/20/25 14:37	Not used	Jaswal	Not Ok
21	P2403-07	LOD-MDL-WATER-01	SAM	01/20/25 14:40	Not used	Jaswal	Not Ok
22	P2403-11	LOQ-WATER-05-QT2	SAM	01/20/25 14:54	Not used	Jaswal	Not Ok
23	P2409-01	MDL-WATER-QT2-20	SAM	01/20/25 15:00	Not used	Jaswal	Not Ok
24	P2403-10	LOD-MDL-WATER-04	SAM	01/20/25 15:06	Not used	Jaswal	Not Ok
25	CCV007	CCV007	CCV	01/20/25 15:20		Jaswal	OK
26	CCB007	CCB007	CCB	01/20/25 15:27	Instrument paused for review	Jaswal	OK
27	P2409-03	MDL-SOIL-QT2-2024-	SAM	01/20/25 15:33	Not used	Jaswal	Not Ok
28	PBW	PBW	MB	01/20/25 15:48	Not used	Jaswal	Not Ok
29	LCSW	LCSW	LCS	01/20/25 15:51	Not used	Jaswal	Not Ok
30	PBS	PBS	MB	01/20/25 15:55	Not used	Jaswal	Not Ok
31	LCSS	LCSS	LCS	01/20/25 15:58	Not used	Jaswal	Not Ok
32	PBS 6020	PBS 6020	MB	01/20/25 16:06	Not used	Jaswal	Not Ok
33	LCSS 6020	LCSS 6020	LCS	01/20/25 16:09	Not used	Jaswal	Not Ok
34	PBW 6020	PBW 6020	MB	01/20/25 16:14	Not used	Jaswal	Not Ok
35	LCSW 6020	LCSW 6020	LCS	01/20/25 16:18	Not used	Jaswal	Not Ok
36	PBW 200.8	PBW 200.8	MB	01/20/25 16:25	Not used	Jaswal	Not Ok
37	CCV008	CCV008	CCV	01/20/25 16:28		Jaswal	OK

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

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134353

Review By	Sarabjit Jaswal	Review On	1/21/2025 12:23:06 PM
Supervise By	Mohan Bera	Supervise On	1/21/2025 12:24:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	
Chk Standard	MP84057,MP84056

38	CCB008	CCB008	CCB	01/20/25 16:31		Jaswal	OK
39	LCSW 200.8	LCSW 200.8	LCS	01/20/25 16:34	Not used	Jaswal	Not Ok
40	CCV009	CCV009	CCV	01/20/25 16:37		Jaswal	OK
41	CCB009	CCB009	CCB	01/20/25 16:40		Jaswal	OK
42	Q1092-01DL	427	SAM	01/20/25 16:43	Not used	Jaswal	Not Ok
43	Q1092-03DL	429	SAM	01/20/25 16:46	Not used	Jaswal	Not Ok
44	Q1092-03DUPDL	429	DUP	01/20/25 16:50	Not used	Jaswal	Not Ok
45	Q1092-03LDL	429L	SD	01/20/25 16:53	Not used	Jaswal	Not Ok
46	Q1092-03MSDL	429	MSD	01/20/25 16:56	Not used	Jaswal	Not Ok
47	Q1092-03MSDDL	429	MSD	01/20/25 16:59	Not used	Jaswal	Not Ok
48	Q1092-03ADL	429A	PS	01/20/25 17:02	Not used	Jaswal	Not Ok
49	CCV010	CCV010	CCV	01/20/25 17:05		Jaswal	OK
50	CCB010	CCB010	CCB	01/20/25 17:11	Instrument paused for review	Jaswal	OK
51	Q1085-01DL	MC0B99	SAM	01/20/25 17:15	10X for Cr	Jaswal	Confirms
52	CCV011	CCV011	CCV	01/20/25 17:18		Jaswal	OK
53	CCB011	CCB011	CCB	01/20/25 17:21		Jaswal	OK

EPA SAMPLE NO.

MC0B99

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-01

% Solids: Date Received: 01/15/2025

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.053	J	01/16/2025	1357

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

Comments:

EPA SAMPLE NO.

MC0BA0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-02

% Solids: Date Received: 01/15/2025

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	01/16/2025	1359

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

Comments:

EPA SAMPLE NO.

MC0BA1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-03

% Solids: Date Received: 01/15/2025

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J	01/16/2025	1401

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

Comments:

EPA SAMPLE NO.

MC0BA2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-04

% Solids: Date Received: 01/15/2025

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	01/16/2025	1403

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

Comments:

EPA SAMPLE NO.

MC0BA4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51943 MA No. : SDG No.: MC0B99

Matrix: Water Lab Sample ID: Q1085-07

% Solids: Date Received: 01/15/2025

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.49		01/16/2025	1413

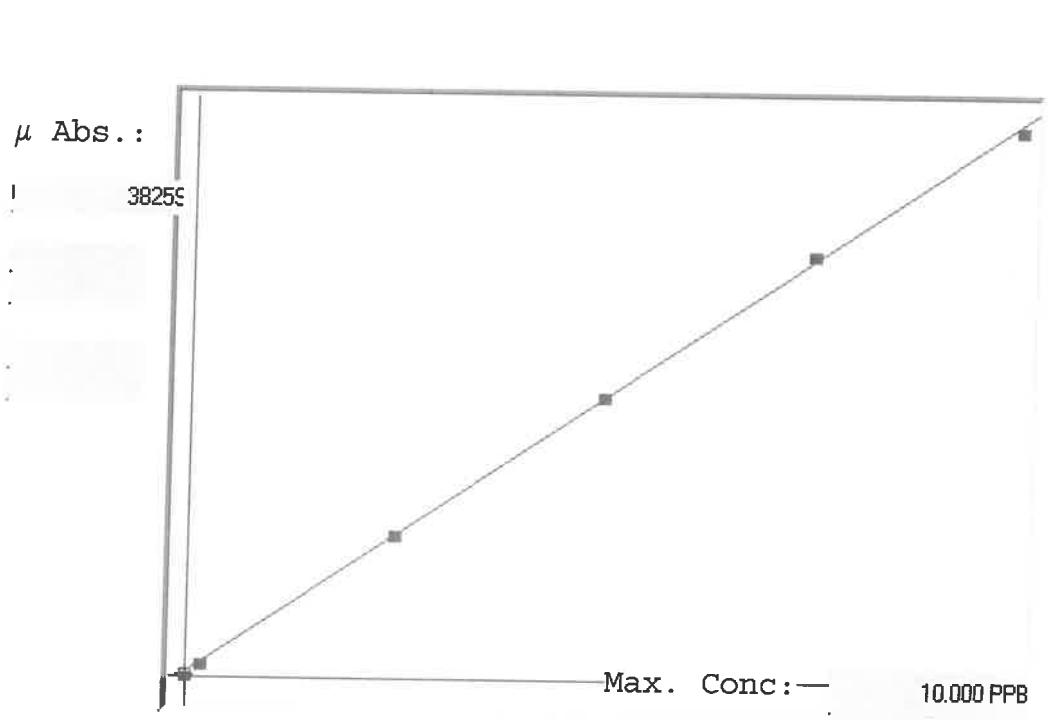
NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:mohan
On:1/17/2025 7:47:17 PM
Inst Id :CV1

LB134306

SFAM01.1 INSTRUMENT ID: CV1



Linear

A= 0.0000e+000

B= 2.6073e-004 slope

C= -8.3245e-002 y=mx+c

Rho= 0.9998282

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.00	0.000	-0.025	-0.025	225	0.000	225	0				
0.05	0.050					442	0				-14
0.20	0.200	0.172	-0.028	979	0.0 %	979					1
2.50	2.500	2.516	0.016	9971	0.0 %	9971					1
5.00	5.000	5.026	0.026	19595	0.0 %	19595					2
7.50	7.500	7.619	0.119	29540	0.0 %	29540					2
10.0	10.000	9.892	-0.108	38259	0.0 %	38259					-1

MB 01/17/2025

Reviewed By:mohan
On:1/17/2025 7:47:17 PM
Inst Id :CV1

LB134306

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0	225	-		0	SFAM01.1	PPB	1/16/2025 13:26	Std
0.2	S01	979	-		0.2	SFAM01.1	PPB	1/16/2025 13:28	Std
2.5	S02	9971	-		2.5	SFAM01.1	PPB	1/16/2025 13:30	Std
5	S03	19595	-		5	SFAM01.1	PPB	1/16/2025 13:33	Std
7.5	S04	29540	-		7.5	SFAM01.1	PPB	1/16/2025 13:35	Std
10	S05	38259	-		10	SFAM01.1	PPB	1/16/2025 13:37	Std
ICV058	ICV058	14683	3.745	-		SFAM01.1	PPB	1/16/2025 13:40	SMPL
ICB058	ICB058	171	-0.0387	-		SFAM01.1	PPB	1/16/2025 13:42	SMPL
CCV039	CCV039	18917	4.8489	-		SFAM01.1	PPB	1/16/2025 13:50	SMPL
CCB039	CCB039	221	-0.0256	-		SFAM01.1	PPB	1/16/2025 13:52	SMPL
PB166082BL	PBW082	361	0.0109	-		SFAM01.1	PPB	1/16/2025 13:54	SMPL
Q1085-01	MC0B99	524	0.0534	-		SFAM01.1	PPB	1/16/2025 13:57	SMPL
Q1085-02	MC0BA0	202	-0.0306	-		SFAM01.1	PPB	1/16/2025 13:59	SMPL
Q1085-03	MC0BA1	494	0.0456	-		SFAM01.1	PPB	1/16/2025 14:01	SMPL
Q1085-04	MC0BA2	324	0.0012	-		SFAM01.1	PPB	1/16/2025 14:03	SMPL
Q1085-05	MC0BA2D	492	0.045	-		SFAM01.1	PPB	1/16/2025 14:08	SMPL
Q1085-06	MC0BA2S	4678	1.1364	-		SFAM01.1	PPB	1/16/2025 14:11	SMPL
Q1085-07	MC0BA4	2204	0.4914	-		SFAM01.1	PPB	1/16/2025 14:13	SMPL
PB166083BL	PBW083	323	0.001	-		SFAM01.1	PPB	1/16/2025 14:15	SMPL
P4776-01	MDL-WATER	568	0.0648	-		SFAM01.1	PPB	1/16/2025 14:29	SMPL
CCV040	CCV040	22158	5.6939	-		SFAM01.1	PPB	1/16/2025 14:34	SMPL
CCB040	CCB040	251	-0.0178	-		SFAM01.1	PPB	1/16/2025 14:36	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : Q1085

Test : Mercury

Prepbatch ID : PB166082,

Sequence ID/Qc Batch ID: LB134306,

Standard ID :
MP83691,MP83692,MP83693,MP83694,MP84075,MP84076,MP84078,MP84079,MP84080,MP84081,MP84082,MP84083,MP84084,MP84085,MP84086,MP84090,

Chemical ID :
M4371,M4465,M4916,M5062,M5532,M5882,M5884,M6041,M6121,M6126,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	MP83691	12/18/2024	06/03/2025	Mohan Bera	None	None	Sarabjit Jaswal 12/18/2024

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 %	MP83692	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

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 %	MP83693	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

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	MP83694	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84075	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84076	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP84078	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84079	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84075 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP84080	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84081	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84075 = Final Quantity: 250.000 ml

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP84082	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84075 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84083	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84084	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84085	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84075 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84086	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84090	01/16/2025	01/17/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 01/17/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / jaswal	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 / jaswal	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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 #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1175

Certificate of Analysis

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

1177

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

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

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

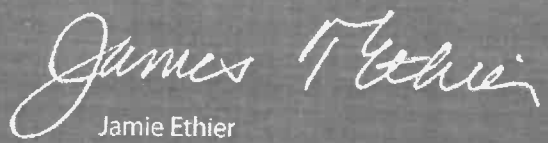
1186

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1187

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166082

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : MC0B99/MDL-WATER

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#1 2. N/A

Start Digest Date: 01/16/2025 **Time :** 10:35 **Temp :** 94 °C

End Digest Date: 01/16/2025 **Time :** 12:35 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#1

Dig Technician Signature: MB

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP84083
CCV	100mL	MP84085
Matrix Spike	0.40mL	MP84075
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	7.5mL	MP83691
KMnO4 (5%)	15.0mL	MP83692
K2S2O8 (5%)	8.0mL	MP83693
Hydroxylamine HCL (12%)	6.0mL	MP83694
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP84076
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP84078
2.5 ppb	S2.5	100mL	MP84079
5.0 ppb	S5.0	100mL	MP84080
7.5 ppb	S7.5	100mL	MP84081
10.0 ppb	S10.0	100mL	MP84082
ICV	ICV	100mL	MP84083
ICB	ICB	100mL	MP84084
CCV	CCV	100mL	MP84085
CCB	CCB	100mL	MP84086
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
1/16/25 @ 13:05	MB- Dig- Lab	MB- metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166082

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166082BL	PBW082	100	100	<2	N/A	1-1
Q1085-01	MC0B99	100	100	<2	N/A	2
Q1085-02	MC0BA0	100	100	<2	N/A	3
Q1085-03	MC0BA1	100	100	<2	N/A	4
Q1085-04	MC0BA2	100	100	<2	N/A	5
Q1085-05	MC0BA2D	100	100	<2	N/A	6
Q1085-06	MC0BA2S	100	100	<2	MP84075	7
Q1085-07	MC0BA4	100	100	<2	N/A	8

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 # LB134306

Review By	Sarabjit Jaswal	Review On	1/17/2025 7:42:46 PM
Supervise By	Mohan Bera	Supervise On	1/17/2025 7:47:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP84076,MP84078,MP84079,MP84080,MP84081,MP84082
ICV Standard	MP84083
CCV Standard	MP84085
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84084,MP84086,MP84090

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/16/25 13:26		Upendra	OK
2	S0.2	S01	CAL2	01/16/25 13:28		Upendra	OK
3	S2.5	S02	CAL3	01/16/25 13:30		Upendra	OK
4	S5	S03	CAL4	01/16/25 13:33		Upendra	OK
5	S7.5	S04	CAL5	01/16/25 13:35		Upendra	OK
6	S10	S05	CAL6	01/16/25 13:37		Upendra	OK
7	ICV058	ICV058	ICV	01/16/25 13:40		Upendra	OK
8	ICB058	ICB058	ICB	01/16/25 13:42		Upendra	OK
9	CCV039	CCV039	CCV	01/16/25 13:50		Upendra	OK
10	CCB039	CCB039	CCB	01/16/25 13:52		Upendra	OK
11	PB166082BL	PBW082	MB	01/16/25 13:54		Upendra	OK
12	Q1085-01	MC0B99	SAM	01/16/25 13:57		Upendra	OK
13	Q1085-02	MC0BA0	SAM	01/16/25 13:59		Upendra	OK
14	Q1085-03	MC0BA1	SAM	01/16/25 14:01		Upendra	OK
15	Q1085-04	MC0BA2	SAM	01/16/25 14:03		Upendra	OK
16	Q1085-05	MC0BA2D	DUP	01/16/25 14:08		Upendra	OK
17	Q1085-06	MC0BA2S	MS	01/16/25 14:11		Upendra	OK
18	Q1085-07	MC0BA4	SAM	01/16/25 14:13		Upendra	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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STD. NAME	STD REF.#
ICAL Standard	MP84076,MP84078,MP84079,MP84080,MP84081,MP84082
ICV Standard	MP84083
CCV Standard	MP84085
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84084,MP84086,MP84090

19	PB166083BL	PBW083	MB	01/16/25 14:15		Upendra	OK
20	P4776-01	MDL-WATER-QT4-20	SAM	01/16/25 14:29		Upendra	OK
21	CCV040	CCV040	CCV	01/16/25 14:34		Upendra	OK
22	CCB040	CCB040	CCB	01/16/25 14:36		Upendra	OK

ORIGIN ID:SEGA (215) 622-0102
ON-SITE TECHNICIAN
CHEM-FAB
400 N. BROAD STREET
SUITE 500
DOYLESTOWN, PA 18901
UNITED STATES US

SHIP DATE: 13JAN25
ACTWGT: 75.00 LB
CAD: 109322293/INET4535

BILL SENDER

TO **SAMPLE RECEIVING**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900 REF:
INV:
PO: DEPT: 149113.0OY1.PERF

58CJ1/5046/C8C4

FedEx Express

2 of 6
MPS# 0263 7712 4245 2734
Mstr# 7712 4245 2723

TUE - 14 JAN 12:00P
PRIORITY OVERNIGHT

0201

E2 KBCA

07092
NJ-US EWR

1-15-25 1003 3.1C

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

1194

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	Q1085	Order Date :	1/15/2025 10:03:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51943	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	1/15/2025 10:03:00 AM	EDD Type :	EPA CLP
Date Sign Off :	1/15/2025 2:24:53 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
Q1085-01	MC0B99	Water	01/14/2025						
				Hardness, Total		SFAM_AES	5	01/22/2025	01/22/2025
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
				Metals CLP4		SFAM_AES	5	01/22/2025	01/22/2025
Q1085-02	MC0BA0	Water	01/14/2025						
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
Q1085-03	MC0BA1	Water	01/14/2025						
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
Q1085-04	MC0BA2	Water	01/14/2025						
				Hardness, Total		SFAM_AES	5	01/22/2025	01/22/2025
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
				Metals CLP4		SFAM_AES	5	01/22/2025	01/22/2025
Q1085-05	MC0BA2D	Water	01/14/2025						
				Hardness, Total		SFAM_AES	5	01/22/2025	01/22/2025
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
				Metals CLP4		SFAM_AES	5	01/22/2025	01/22/2025
Q1085-06	MC0BA2S	Water	01/14/2025						
				Hardness, Total		SFAM_AES	5	01/22/2025	01/22/2025
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025
				Metals CLP4		SFAM_AES	5	01/22/2025	01/22/2025
Q1085-07	MC0BA4	Water	01/14/2025						
				Hardness, Total		SFAM_AES	5	01/22/2025	01/22/2025
				Mercury		SFAM_HG	5	01/22/2025	01/22/2025
				Metals CLP MS		SFAM_MS	5	01/22/2025	01/22/2025

Metals CLP4	SFAM_AES	5	01/22/2025	01/22/2025	

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166077 **WorkList ID :** 186940 **Department :** Digestion **Date :** 01-16-2025 09:36:42

1197

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1085-01	MC0B99	Water	Metals CLP4	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_AES
Q1085-04	MC0BA2	Water	Metals CLP4	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_AES
Q1085-05	MC0BA2D	Water	Metals CLP4	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_AES
Q1085-06	MC0BA2S	Water	Metals CLP4	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_AES
Q1085-07	MC0BA4	Water	Metals CLP4	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_AES

Date/Time 01/16/25 9:50

Raw Sample Received by: SRS. metals digestion

Raw Sample Relinquished by:

Date/Time 01/16/25 10:50

Raw Sample Received by:

Raw Sample Relinquished by: SRS metals digestion

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166076 **WorkList ID :** 186939 **Department :** Digestion **Date :** 01-16-2025 09:32:47

1198

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1085-01	MC0B99	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-02	MC0BA0	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-03	MC0BA1	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-04	MC0BA2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-05	MC0BA2D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-06	MC0BA2S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS
Q1085-07	MC0BA4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_MS

Date/Time 01/16/25 9:55

Raw Sample Received by: GRD. MCT Digestion

Raw Sample Relinquished by:

Date/Time 01/16/25 10:55

Raw Sample Received by:

Raw Sample Relinquished by: GRD. MCT Digestion

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1085_HgW **WorkList ID :** 186941 **Department :** Digestion **Date :** 01-16-2025 09:44:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1085-01	MC0B99	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-02	MC0BA0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-03	MC0BA1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-04	MC0BA2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-05	MC0BA2D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-06	MC0BA2S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG
Q1085-07	MC0BA4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/14/2025	SFAM_HG

1199

Date/Time 1/16/25 @ 10:51

Raw Sample Received by: MG - DSG - CAS

Raw Sample Relinquished by: MG - DSG - CAS

Date/Time 1/16/25 @ 10:40

Raw Sample Received by: MG - DSG CAS

Raw Sample Relinquished by: MG - DSG CAS