SDG COVER PAGE

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

Lab Code: ACE Case No.: 51955 MA No.: 3152.0 SDG No.: YE8C9

SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method ICP-AES | ICP-MS | Mercury | Cyanide |
|---|---|---|---|---|---|
| YE8C9 | Q1159-01 | X | X | X | |
| YE8C9D | Q1159-02 | X | X | X | |
| YE8C9S | Q1159-03 | X | X | X | |
| YE8D1 | Q1159-04 | X | X | X | |
| YE8D3 | Q1159-05 | X | X | X | |
| YE8E2 | Q1159-06 | 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 # YE8C9

**USEPA CLP COC (LAB COPY)**

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3303 4885

**CHAIN OF CUSTODY RECORD**

Case #: 51955

MA 3152.0

**No: 9-011925-103929-0018**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| MW-924-SO-38-40 | YE8C3 | Soil/ EAEST | Grab | ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21) | 108 (Wet Ice), 109 (Wet Ice), 112 (Wet Ice) (4) | 924 | 01/19/2025 09:15 | |
| MW-24-SO-5-7 | YE8C9 | Soil/ EAEST | Grab | ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21) | 150 (Wet Ice), 151 (Wet Ice), 154 (Wet Ice) (5) | 24 | 01/18/2025 16:30 | |
| MW-24-SO-18-20 | YE8D0 | Soil/ EAEST | Grab | ICP-AES/MS(21) | 157 (Wet Ice) (1) | 24 | 01/18/2025 16:40 | |

Sample(s) to be used for Lab QC: MW-24-SO-5-7 Tag 150, MW-24-SO-5-7 Tag 151, MW-24-SO-5-7 Tag 154

**Shipment for Case Complete?** N

**Samples Transferred From Chain of Custody #**

Analysis Key: ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH, SVOA=Semivolatiles, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Allison Thuesen EA | 01/21/25 1600 | R. Melendez | 10:15 1.22.25 | IR gun # 2.2 |
| | | | | | Temp Blank present |
| | | | | | Custody Seal intact |

68HERH20D0011

SDG # YE8C9

**USEPA CLP COC (LAB COPY)**

DateShipped: 1/21/2025

CarrierName: FedEx

AirbillNo: 7715 3303 5859

**CHAIN OF CUSTODY RECORD**

Case #: 51955

MA 3152.0

**No: 9-011925-104047-0019**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

3

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| MW-24-SO-18-20 | YE8D0 | Soil/ EAEST | Grab | SVOA(21), SPLP ICP-AES(21) | 158 (Wet Ice), 161 (Wet Ice) (3) | 24 | 01/18/2025 16:40 | |
| MW-24-SO-38-40 | YE8D1 | Soil/ EAEST | Grab | ICP-AES/MS(21), SVOA(21) | 164 (Wet Ice), 165 (Wet Ice) (2) | 24 | 01/19/2025 09:15 | 2 |
| MW-24-SO-68-69 | YE8D3 | Soil/ EAEST | Grab | ICP-AES/MS(21), SVOA(21), SPLP ICP-AES(21) | 178 (Wet Ice), 179 (Wet Ice), 182 (Wet Ice) (4) | 24 | 01/19/2025 14:15 | 3 |
| MW-924-SO-58-60 | YE8E2 | Soil/ EAEST | Grab | ICP-AES/MS(21) | 241 (Wet Ice) (1) | 924 | 01/19/2025 09:50 | 4 |
| | | | | | | | | |
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Special Instructions:

**Shipment for Case Complete? N** ✓

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA=Semivolatiles, SPLP ICP-AES=SPLP ICP-AES Metals + Hg, pH, ICP-AES/MS=ICP-AES/MS Metals+Hg MA 3152.0, pH

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Allison Thusa EA | 01/21/25 1600 | | 9:55 1-23-25 | IR Gun #1 1.9°C |
| | | | | | Custody Seal Intact |
| | | | | | Temp Blank present |
| | | | | | |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 1 of 2 |
| Received By (Print Name) Cassandra Reid | | Log-in Date 1/22/2025 |
| Received By (Signature) | | |
| Case Number 51955 | SDG No. YE8C9 | MA No. 3152.0 |

| 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. | 771533034885<br>1 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.2 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 01/22/2025 |
| 12.Time Received | 10:15 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | YE8C9 | N/A | 150 | Q1159-01 | Intact |
| 2 | YE8C9D | N/A | 150 | Q1159-02 | Intact |
| 3 | YE8C9S | N/A | 150 | Q1159-03 | Intact |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|---|---|
| Reviewed By | Logbook No. N/A |
| Date 1/24/25 | Logbook Page No. N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 2 of 2 |
| Received By (Print Name) Espanova Reina | | Log-in Date 1/23/2025 |
| Received By (Signature) | | |
| Case Number 51955 | SDG No. YE8C9 | MA No. 3152.0 |

| 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. | 771533035859<br>2 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 1.9 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 01/23/2025 |
| 12.Time Received | 09:55 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | YE8D1 | N/A | 164 | Q1159-04 | Intact |
| 2 | YE8D3 | N/A | 178 | Q1159-05 | Intact |
| 3 | YE8E2 | N/A | 241 | Q1159-06 | Intact |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 1/24/25 | 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. | **51955** | SDG NO. | **YE8C9** |
| MA NO. | **3152.0** | 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 | 3 | ✓ | |
| 3 . Sample Log-In Sheet (DC-1) | 4 | 5 | ✓ | |
| 4 . CSF Inventory Sheet (DC-2) | 6 | 8 | ✓ | |
| 5 . SDG Narrative | 9 | 15 | ✓ | |
| 6 . Communication Logs | NA | NA | ✓ | |
| 7 . Percent Solids Log | 16 | 17 | ✓ | |
| **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 | 18 | 21 | ✓ | |
| 9 . Instrument raw data by instrument in analysis order | 22 | 117 | ✓ | |
| **Other Data** | | | | |
| 10 . Standard and Reagent Preparation Logs | 118 | 259 | ✓ | |
| 11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 260 | 261 | ✓ | |
| 12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 262 | 263 | ✓ | |
| 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 | 264 | 267 | ✓ | |
| 18 . Instrument raw data by instrument in analysis order | 268 | 1449 | ✓ | |
| **Other Data** | | | | |
| 19 . Standard and Reagent Preparation Logs | 1450 | 1616 | ✓ | |
| 20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 1617 | 1618 | ✓ | |
| 21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 1619 | 1630 | ✓ | |
| 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 | 1631 | 1634 | ✓ | |
| 27. Instrument raw data by instrument in analysis order | 1635 | 1636 | ✓ | |
| **Other Data** | | | | |
| 28. Standard and Reagent Preparation Logs | 1637 | 1661 | ✓ | |
| 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 1662 | 1667 | ✓ | |
| 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 1668 | 1669 | ✓ | |
| 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 2 ) | 1670 | 1671 | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 1672 | 1673 | ✓ | |
| 45. Misc. Shipping/Receiving Records (list all individual records) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |
| 46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) | | | | |
| | 1674 | 1676 | ✓ | |
| | | | | |
| 47. Other Records and related Communication Logs (describe or list) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |

48. Comments:

| | | | |
|---|---|---|---|
| Completed by: (CLP Lab) | | Nimisha Pandya, Document Control Officer | |
| | (Signature) | (Print Name & Title) | (Date) |
| Audited by: (EPA) | | | |
| | (Signature) | (Print Name & Title) | (Date) |

**284 Sheffield Street**
**Mountainside, NJ 07092**

**SDG NARRATIVE**

**USEPA**
**SDG # YE8C9**
**CASE # 51955**
**CONTRACT # 68HERH20D0011**
**SOW# SFAM01.1**
**LAB NAME: Alliance Technical Group, LLC**
**LAB CODE: ACE**
**LAB ORDER ID # Q1159**
**MODIFIED ANALYSIS # 3152.0**

**A. Number of Samples and Date of Receipt**

04 Soil samples were delivered to the laboratory intact on 01/22/2025, 01/23/2025.

**B. Parameters**

Test requested for Metals CLP12= Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium & Mercury.

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Vanadium, Zinc.

**C. Cooler Temp**

Indicator Bottle**: Presence/**Absence

Cooler: 2.2$^{o}$C, 1.9$^{o}$C

**D. 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.

**E. Calculation:**

**Calculation for ICP-AES Soil Sample:**

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

**Example Calculation For Sample YE8C9 For Aluminum:**

If C = 73.13456 ppm
Vf = 100 ml
W = 1.08 g
S = 0.864(864/100)
DF = 1

$$\text{Concentration (mg/kg)} = 73.13456 \times \frac{100}{1.08 \times 0.864} \times 1$$

= 7837.6371 mg/kg

= 7800 mg/kg (Reported Result with Signification)

**Calculation for ICP-MS Soil Sample:**

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

**284 Sheffield Street**
**Mountainside, NJ 07092**

**Example Calculation For Sample YE8C9 For Arsenic :**

If C = 55.59 ppb
Vf = 500 ml
W = 1.22 g
S = 0.864(86.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 55.59 \times \frac{500}{1.22 \times 0.864} \times 1 / 1000$$

$$= 26.3689 \text{ mg/kg}$$

= 26 mg/kg (Reported Result with Signification)

**Calculation for Hg Soil Sample:**

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,
C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

**Example Calculation For Sample YE8C9:**

If C = 0.6284 ppb
Vf = 100 mL
W = 0.50g
S = 0.864(86.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.6284 \times \frac{100}{0.50 \times 0.864} \times 1 / 1000$$

$$= 0.145462 \text{ mg/kg}$$

= 0.14 mg/kg (Reported Result with Signification)

**F. QA/ QC**

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

As per scheduling, pH analysis is required for soil samples and the pH analysis data is provided with hardcopy.

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

Internal Standard Association for ICP-MS analysis.

| Target Analyte | Associated Internal Standard |
|---|---|
| Antimony | 159Tb |
| Arsenic | 89Y |
| Barium | 159Tb |
| Beryllium | 6Li |
| Cadmium | 159Tb |
| Chromium | 45Sc |
| Cobalt | 45Sc |
| Copper | 45Sc |
| Lead | 209Bi |
| Manganese | 45Sc |
| Molybdenum | 89Y |
| Nickel | 45Sc |
| Selenium | 89Y |
| Silver | 159Tb |

**284 Sheffield Street**
**Mountainside, NJ 07092**

| | |
|---|---|
| Strontium | 89Y |
| Thallium | 209Bi |
| Vanadium | 45Sc |
| Zinc | 45Sc |

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

| **Date:** 04/13/2022 | **MA:** 3152.0 | **Title:** ICP-MS Analysis Plus Molybdenum and Strontium |
|---|---|---|
| **Method Source:** SFAM01.1 | **Method:** ICP-MS | |
| **Matrix:** Aqueous/Water and Soil/Sediment | | |

**Summary of Modification**

The purpose of this modified analysis is to analyze aqueous/water and soil/sediment samples by ICP-MS with the addition of the non-routine analytes Molybdenum (Mo) and Strontium (Sr). Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

**I. Analyte Modifications** **Not applicable** ☐

| Analyte | CAS Number | CRQL (µg/L) | CRQL (mg/kg) | Spike Added (µg/L) | Spike Added (mg/kg) |
|---|---|---|---|---|---|
| Molybdenum (Mo) | 7439-98-7 | 10.0 | 2.0 | 200 | 50 |
| Strontium (Sr) | 7440-24-6 | 2.0 | 96.0 | 100 | 1000 |

**II. Calibration and QC Requirements** **Not applicable** ☐

The Laboratory shall:

- Ensure Method Detection Limits have been determined for Molybdenum and Strontium in aqueous/water and soil/sediment matrices by the preparation methods used for the samples that meet all applicable SOW requirements.
- Perform the Initial Calibration with at least one non-blank standard at or below the modified CRQLs, converted to µg/L as necessary.
- Add Mo and Sr to the ICV and CCV at appropriate mid-range concentrations.
- Evaluate the ICB and CCB against the modified CRQLs converted to µg/L as necessary.
- Evaluate the Preparation Blanks using the modified CRQLs.
- Perform the Matrix Spike at the levels specified above. Post-digestion spike requirements are per the SOW.
- Flag the Duplicates based on the modified CRQLs.
- Add Mo and Sr to the LCS at 2 times the appropriate modified CRQLs.
- Not add Sr to the ICS. Use a true value of 0 (zero) and acceptance windows of ±2x the aqueous CRQL, unless a non-zero concentration for Sr has been determined.
- If mass 97 is monitored for Mo, ensure that isobaric interference correction is applied if necessary for levels of Calcium found in samples.

**III. Preparation and Method Modifications** **Not applicable** ☒

**IV. Special Reporting Requirements** **Not applicable** ☐

The Laboratory shall:

- Add Molybdenum and Strontium to Form 1.
- Report the "J" and "U" qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQLs.
- Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective action taken. These problems may include

| |
|---|
| problems encountered during analysis, dilutions, re-analyses or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analysis including a copy of the approved modification with the SDG Narrative. |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 1/27/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 14:00
**In Date:** 01/24/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:00
**Out Date:** 01/25/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLIDS-OVEN

**QC:** LB134406

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1159-01 | YE8C9 | 1 | 1.15 | 8.75 | 9.9 | 8.71 | 86.4 | |
| Q1159-02 | YE8C9D | 2 | 1.15 | 8.75 | 9.9 | 8.71 | 86.4 | |
| Q1159-03 | YE8C9S | 3 | 1.15 | 8.75 | 9.9 | 8.71 | 86.4 | |
| Q1159-04 | YE8D1 | 4 | 1.16 | 8.54 | 9.7 | 9.13 | 93.3 | |
| Q1159-05 | YE8D3 | 5 | 1.14 | 8.67 | 9.81 | 9.11 | 91.9 | |
| Q1159-06 | YE8E2 | 6 | 1.14 | 8.70 | 9.84 | 9.24 | 93.1 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 134406

**WorkList Name :** %1-q1159 **WorkList ID :** 187138 **Department :** Wet-Chemistry **Date :** 01-24-2025 12:55:45

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1159-01 | YE8C9 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | Chemtech -SO |
| Q1159-02 | YE8C9D | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | Chemtech -SO |
| Q1159-03 | YE8C9S | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | Chemtech -SO |
| Q1159-04 | YE8D1 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | Chemtech -SO |
| Q1159-05 | YE8D3 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | Chemtech -SO |
| Q1159-06 | YE8E2 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | Chemtech -SO |

17

**Date/Time** 01/24/25 13:10

**Raw Sample Received by:** JR WSCI

**Raw Sample Relinquished by:** CP Sm



**Date/Time** 01/24/25 14:10

**Raw Sample Received by:** CP Sm

**Raw Sample Relinquished by:** JR WSCI

EPA SAMPLE NO.

YE8C9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-01

% Solids: 86.4 Date Received: 01/22/2025

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7800 | | 01/29/2025 | 1621 |
| 7440-70-2 | Calcium | 2400 | | 01/29/2025 | 1621 |
| 7439-89-6 | Iron | 19000 | | 01/29/2025 | 1621 |
| 7439-95-4 | Magnesium | 4100 | | 01/29/2025 | 1621 |
| 7440-09-7 | Potassium | 110 | J | 01/29/2025 | 1621 |
| 7440-23-5 | Sodium | 540 | U | 01/29/2025 | 1621 |

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

Comments:

EPA SAMPLE NO.

YE8D1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-04

% Solids: 93.3 Date Received: 01/23/2025

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12000 | | 01/29/2025 | 1642 |
| 7440-70-2 | Calcium | 2200 | | 01/29/2025 | 1642 |
| 7439-89-6 | Iron | 28000 | | 01/29/2025 | 1642 |
| 7439-95-4 | Magnesium | 6700 | | 01/29/2025 | 1642 |
| 7440-09-7 | Potassium | 350 | J | 01/29/2025 | 1642 |
| 7440-23-5 | Sodium | 480 | U | 01/29/2025 | 1642 |

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

Comments:

EPA SAMPLE NO.

YE8D3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-05

% Solids: 91.9 Date Received: 01/23/2025

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1600 | | 01/29/2025 | 1646 |
| 7440-70-2 | Calcium | 27000 | | 01/29/2025 | 1646 |
| 7439-89-6 | Iron | 30000 | | 01/29/2025 | 1646 |
| 7439-95-4 | Magnesium | 7800 | | 01/29/2025 | 1646 |
| 7440-09-7 | Potassium | 540 | | 01/29/2025 | 1646 |
| 7440-23-5 | Sodium | 450 | U | 01/29/2025 | 1646 |

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

Comments:

EPA SAMPLE NO.

YE8E2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-06

% Solids: 93.1 Date Received: 01/23/2025

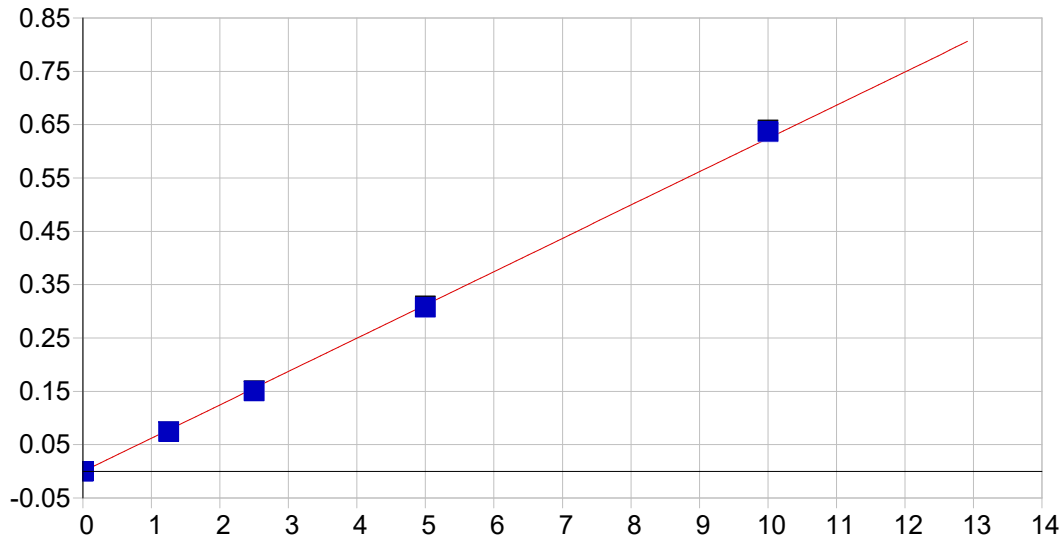
Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5400 | | 01/29/2025 | 1650 |
| 7440-70-2 | Calcium | 890 | | 01/29/2025 | 1650 |
| 7439-89-6 | Iron | 11000 | | 01/29/2025 | 1650 |
| 7439-95-4 | Magnesium | 4100 | | 01/29/2025 | 1650 |
| 7440-09-7 | Potassium | 310 | J | 01/29/2025 | 1650 |
| 7440-23-5 | Sodium | 390 | U | 01/29/2025 | 1650 |

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

Comments:



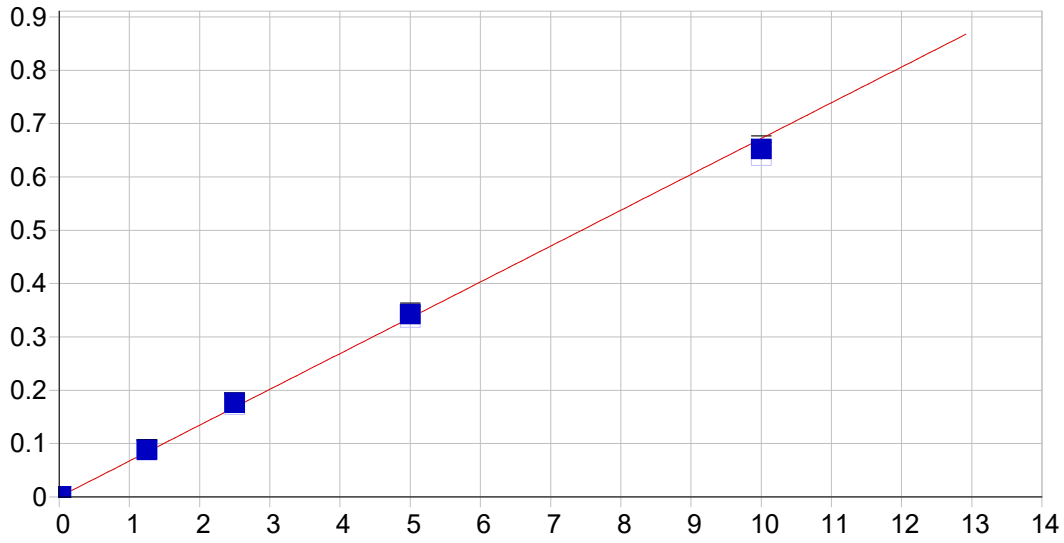

**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000171 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.062425 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999707 | Status: | OK. |
| Std Error of Est: | 0.000025 | | |
| Predicted MDL: | 0.002576 | | |
| Predicted MQL: | 0.008587 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00017 | .000 | 1 |
| S1 | .01000 | .01046 | .000 | 4.56 | .00048 | .000 | 1 |
| S3 | 2.5000 | 2.4129 | -.087 | -3.48 | .15018 | .000 | 1 |
| S4 | 5.0000 | 4.9336 | -.066 | -1.33 | .30725 | .002 | 1 |
| S5 | 10.000 | 10.210 | .210 | 2.10 | .63609 | .003 | 1 |
| S2 | 1.2500 | 1.1928 | -.057 | -4.58 | .07415 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



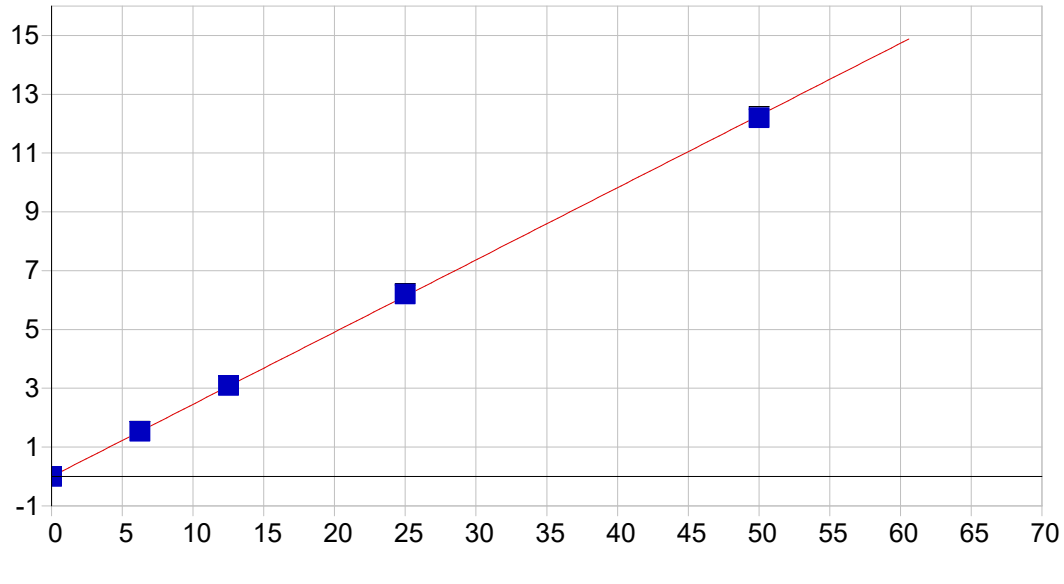

**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000061 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.067165 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999450 | Status: | OK. |
| Std Error of Est: | 0.000058 | | |
| Predicted MDL: | 0.002078 | | |
| Predicted MQL: | 0.006927 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00006 | .000 | 1 |
| S1 | .02500 | .02731 | .002 | 9.22 | .00182 | .000 | 1 |
| S3 | 2.5000 | 2.6224 | .122 | 4.90 | .17295 | .000 | 1 |
| S4 | 5.0000 | 5.0971 | .097 | 1.94 | .33591 | .003 | 1 |
| S5 | 10.000 | 9.7122 | -.288 | -2.88 | .63940 | .006 | 1 |
| S2 | 1.2500 | 1.3161 | .066 | 5.29 | .08683 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



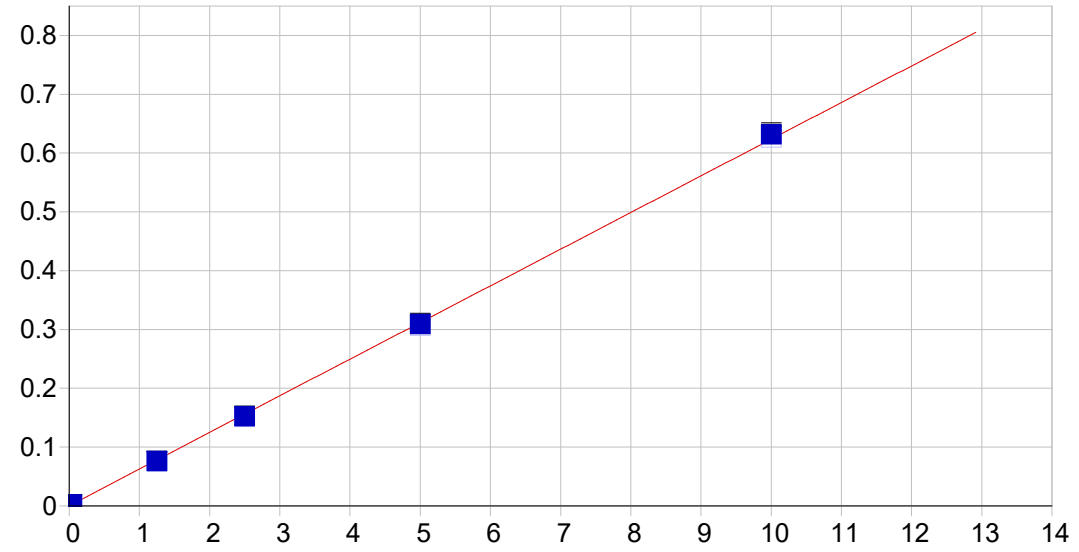

**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000268 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.245554 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999972 | Status: | OK. |
| Std Error of Est: | 0.000069 | | |
| Predicted MDL: | 0.001446 | | |
| Predicted MQL: | 0.004821 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00027 | .000 | 1 |
| S1 | .01000 | .01087 | .001 | 8.73 | .00239 | .000 | 1 |
| S3 | 12.500 | 12.579 | .079 | .634 | 3.0860 | .008 | 1 |
| S4 | 25.000 | 25.256 | .256 | 1.02 | 6.1962 | .024 | 1 |
| S5 | 50.000 | 49.680 | -.320 | -.641 | 12.188 | .047 | 1 |
| S2 | 6.2500 | 6.2345 | -.016 | -.248 | 1.5293 | .002 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



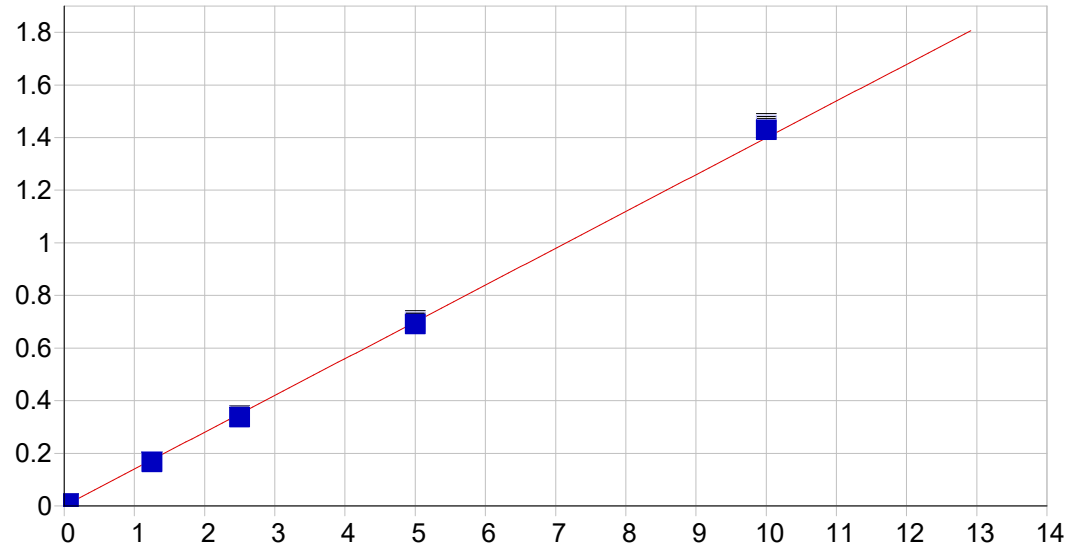

**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000278 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.062328 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999874 | Status: | OK. |
| Std Error of Est: | 0.000031 | | |
| Predicted MDL: | 0.003213 | | |
| Predicted MQL: | 0.010709 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00028 | .000 | 1 |
| S1 | .03500 | .03683 | .002 | 5.22 | .00257 | .000 | 1 |
| S3 | 2.5000 | 2.4419 | -.058 | -2.32 | .15104 | .000 | 1 |
| S4 | 5.0000 | 4.9549 | -.045 | -.902 | .30623 | .002 | 1 |
| S5 | 10.000 | 10.136 | .136 | 1.36 | .62626 | .003 | 1 |
| S2 | 1.2500 | 1.2157 | -.034 | -2.74 | .07533 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



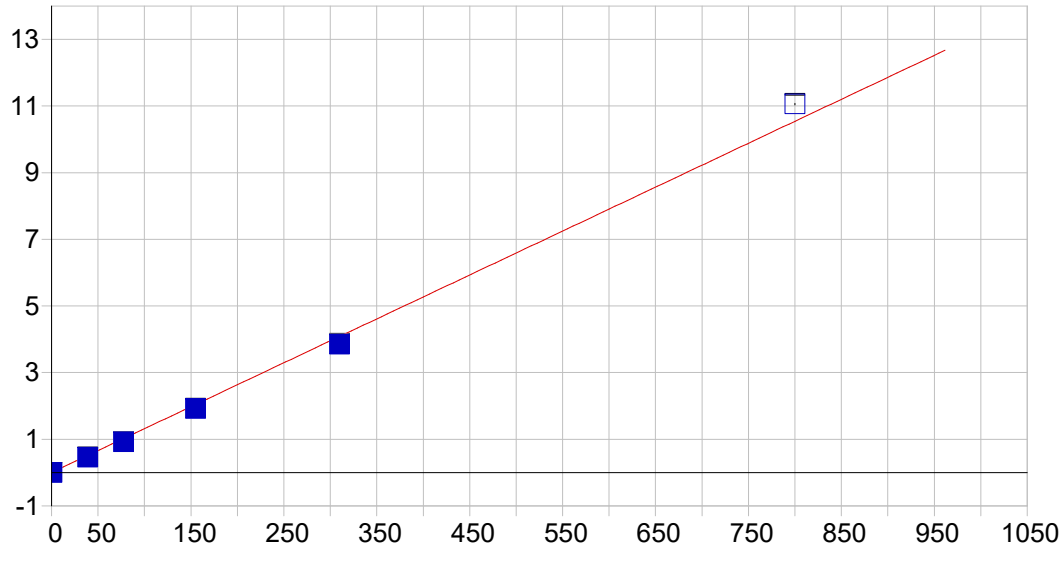

**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000285 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.139842 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999688 | Status: | OK. |
| Std Error of Est: | 0.000145 | | |
| Predicted MDL: | 0.001732 | | |
| Predicted MQL: | 0.005773 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00029 | .000 | 1 |
| S1 | .06000 | .05659 | -.003 | -5.69 | .00818 | .000 | 1 |
| S3 | 2.5000 | 2.4105 | -.089 | -3.58 | .34204 | .000 | 1 |
| S4 | 5.0000 | 4.9352 | -.065 | -1.30 | .69977 | .005 | 1 |
| S5 | 10.000 | 10.219 | .219 | 2.19 | 1.4480 | .006 | 1 |
| S2 | 1.2500 | 1.1887 | -.061 | -4.91 | .16884 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



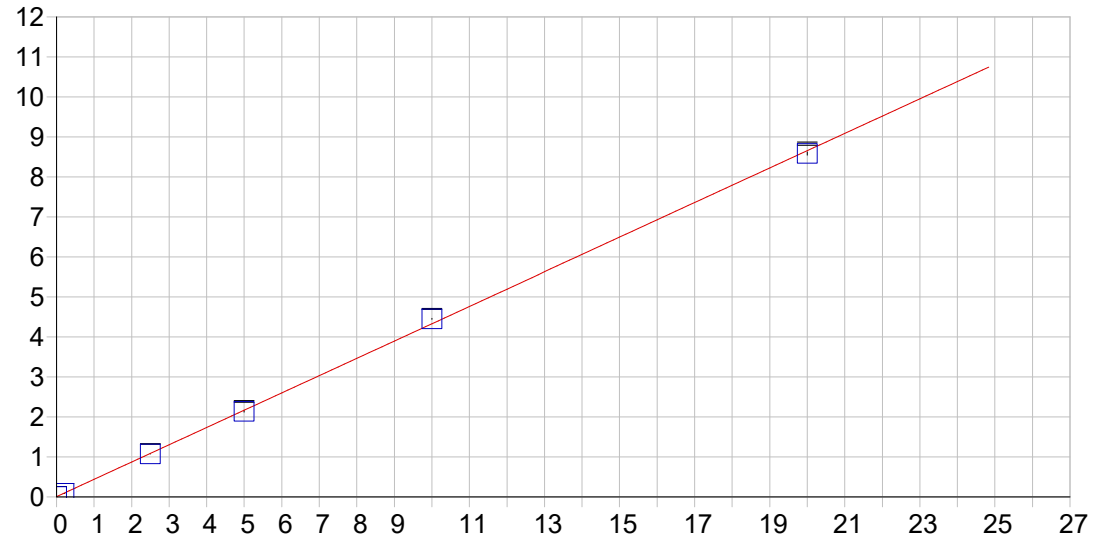

**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:25:32 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.013178 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998301 | Status: | OK. |
| Std Error of Est: | 0.000478 | | |
| Predicted MDL: | 0.008023 | | |
| Predicted MQL: | 0.026745 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00007 | .000 | .000 | .00000 | .000 | 1 |
| S1 | .20000 | .18271 | -.017 | -8.65 | .00241 | .000 | 1 |
| S3 | 77.500 | 69.709 | -7.79 | -10.1 | .91985 | .006 | 1 |
| S4 | 155.00 | 145.63 | -9.37 | -6.04 | 1.9216 | .007 | 1 |
| S5 | 310.00 | 292.21 | -17.8 | -5.74 | 3.8556 | .023 | 1 |
| S2 | 38.750 | 34.675 | -4.08 | -10.5 | .45755 | .001 | 1 |
| S6 | 800.00 | 839.09 | 39.1 | 4.89 | 11.058 | .022 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



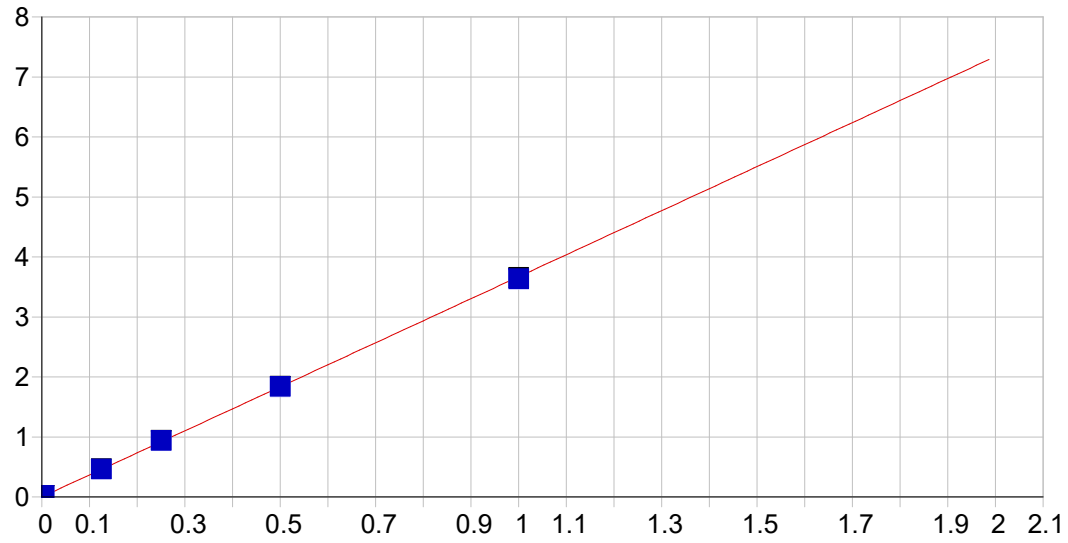

**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.007599 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.432340 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999844 | Status: | OK. |
| Std Error of Est: | 0.000812 | | |
| Predicted MDL: | 0.000862 | | |
| Predicted MQL: | 0.002872 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00761 | .000 | 1 |
| S1 | .20000 | .18421 | -.016 | -7.89 | .08724 | .001 | 1 |
| S3 | 5.0000 | 4.9281 | -.072 | -1.44 | 2.1382 | .022 | 1 |
| S4 | 10.000 | 10.279 | .279 | 2.79 | 4.4517 | .009 | 1 |
| S5 | 20.000 | 19.842 | -.158 | -.792 | 8.5860 | .039 | 1 |
| S2 | 2.5000 | 2.4669 | -.033 | -1.33 | 1.0741 | .006 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



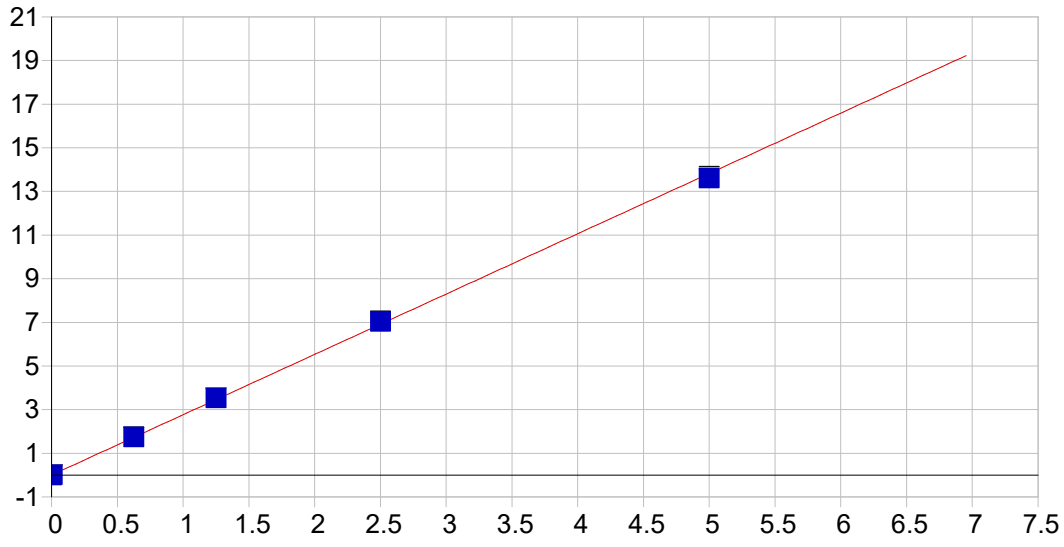

**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000107 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.669692 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999939 | Status: | OK. |
| Std Error of Est: | 0.000152 | | |
| Predicted MDL: | 0.000074 | | |
| Predicted MQL: | 0.000246 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00011 | .000 | 1 |
| S1 | .00500 | .00535 | .000 | 6.96 | .01971 | .000 | 1 |
| S3 | .25000 | .25551 | .006 | 2.20 | .93362 | .007 | 1 |
| S4 | .50000 | .50117 | .001 | .235 | 1.8310 | .006 | 1 |
| S5 | 1.0000 | .99173 | -.008 | -.827 | 3.6229 | .019 | 1 |
| S2 | .12500 | .12624 | .001 | .991 | .46130 | .002 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



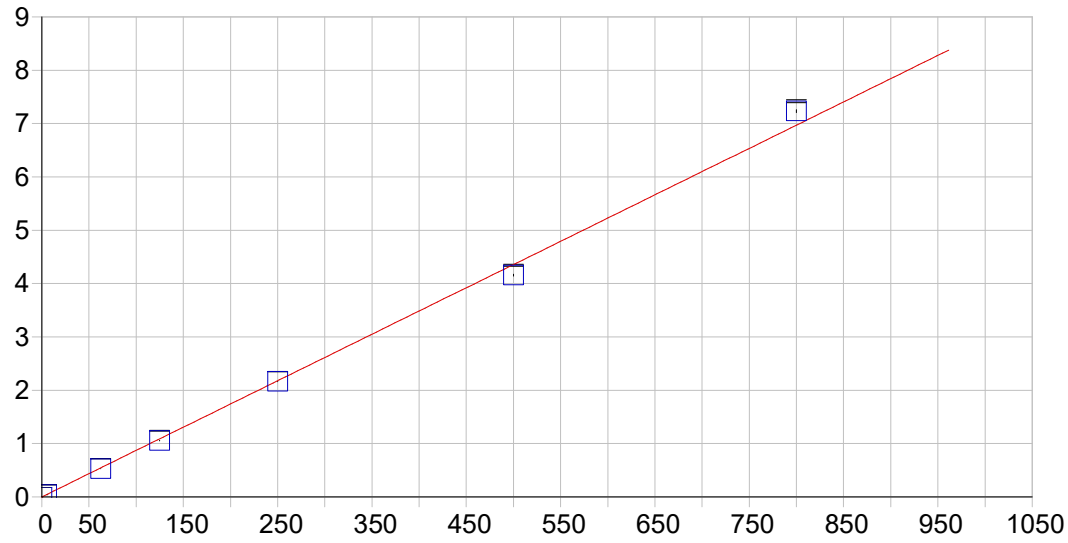

**Cd 214.438 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000036 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.765445 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999858 | Status: | OK. |
| Std Error of Est: | 0.000392 | | |
| Predicted MDL: | 0.000081 | | |
| Predicted MQL: | 0.000270 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00004 | .000 | 1 |
| S1 | .00500 | .00507 | .000 | 1.33 | .01398 | .000 | 1 |
| S3 | 1.2500 | 1.2783 | .028 | 2.26 | 3.5417 | .009 | 1 |
| S4 | 2.5000 | 2.5443 | .044 | 1.77 | 7.0497 | .023 | 1 |
| S5 | 5.0000 | 4.9222 | -.078 | -1.56 | 13.640 | .060 | 1 |
| S2 | .62500 | .63019 | .005 | .830 | 1.7461 | .004 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



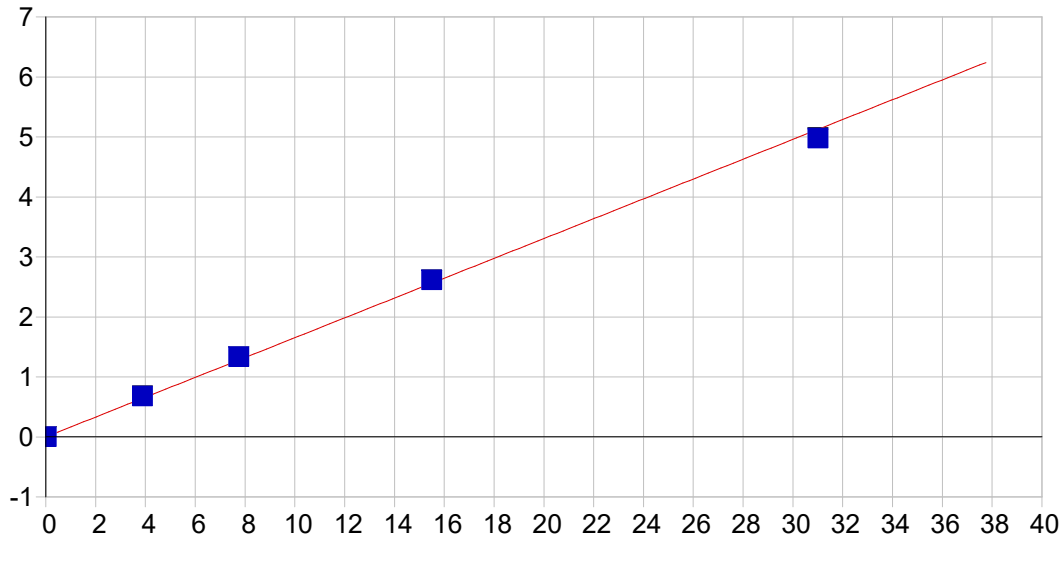

**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:25:32 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000036 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.008713 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999323 | Status: | OK. |
| Std Error of Est: | 0.001120 | | |
| Predicted MDL: | 0.009431 | | |
| Predicted MQL: | 0.031436 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00066 | .001 | .000 | .00004 | .000 | 1 |
| S2 | 62.500 | 60.899 | -1.60 | -2.56 | .53066 | .001 | 1 |
| S3 | 125.00 | 121.06 | -3.94 | -3.15 | 1.0548 | .005 | 1 |
| S4 | 250.00 | 248.35 | -1.65 | -.659 | 2.1640 | .003 | 1 |
| S5 | 500.00 | 477.32 | -22.7 | -4.54 | 4.1591 | .018 | 1 |
| S1 | 5.0000 | 4.6958 | -.304 | -6.08 | .04095 | .000 | 1 |
| S6 | 800.00 | 830.18 | 30.2 | 3.77 | 7.2336 | .028 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



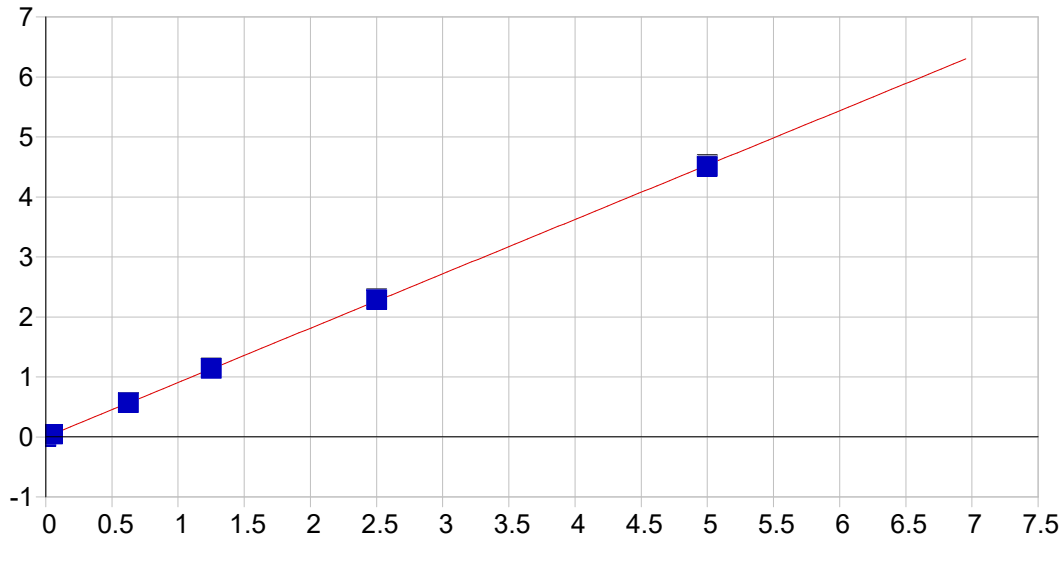

**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.165298 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999471 | Status: | OK. |
| Std Error of Est: | 0.000159 | | |
| Predicted MDL: | 0.000424 | | |
| Predicted MQL: | 0.001415 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00000 | .000 | 1 |
| S1 | .01000 | .01094 | .001 | 9.37 | .00181 | .000 | 1 |
| S3 | 7.7500 | 8.0960 | .346 | 4.46 | 1.3386 | .003 | 1 |
| S4 | 15.500 | 15.813 | .313 | 2.02 | 2.6144 | .002 | 1 |
| S5 | 31.000 | 30.107 | -.893 | -2.88 | 4.9779 | .012 | 1 |
| S2 | 3.8750 | 4.1084 | .233 | 6.02 | .67926 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



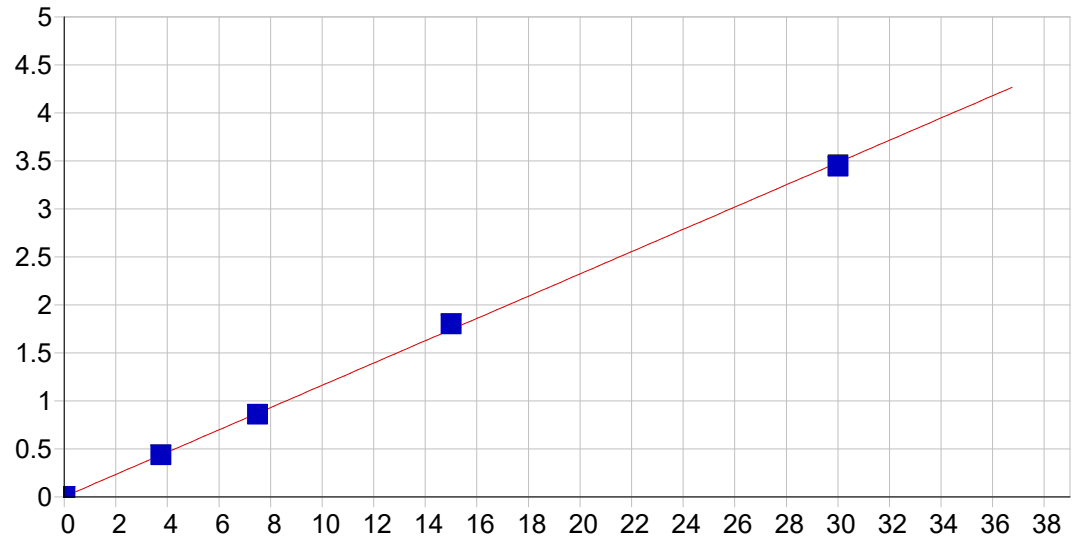

**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000044 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.906070 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999978 | Status: | OK. |
| Std Error of Est: | 0.000161 | | |
| Predicted MDL: | 0.000271 | | |
| Predicted MQL: | 0.000904 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00004 | .000 | 1 |
| S1 | .05000 | .04963 | -.000 | -.734 | .04519 | .000 | 1 |
| S3 | 1.2500 | 1.2573 | .007 | .586 | 1.1436 | .002 | 1 |
| S4 | 2.5000 | 2.5224 | .022 | .896 | 2.2941 | .008 | 1 |
| S5 | 5.0000 | 4.9706 | -.029 | -.588 | 4.5210 | .016 | 1 |
| S2 | .62500 | .62503 | .000 | .005 | .56852 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



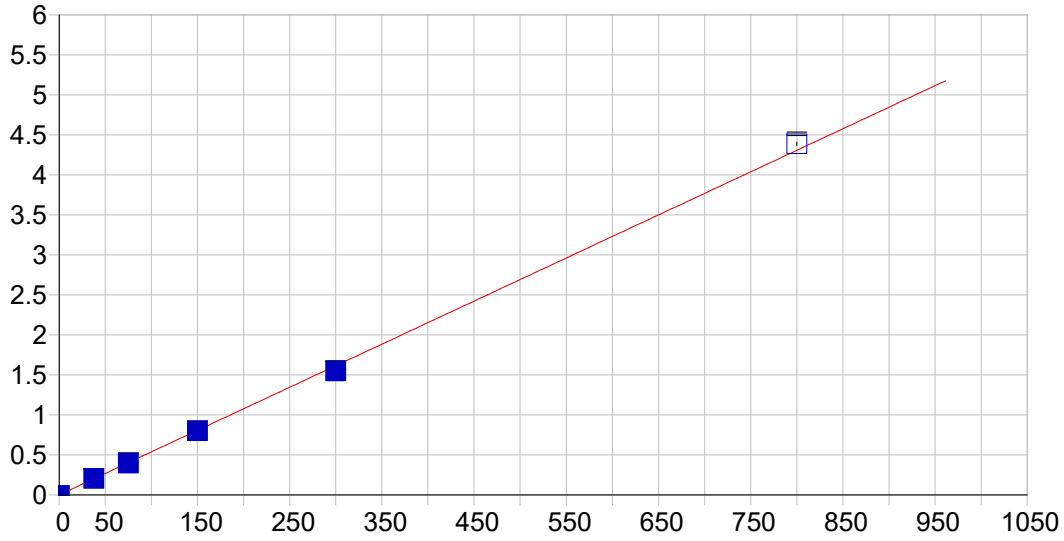

**Cu 324.754 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002340 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.116027 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999803 | Status: | OK. |
| Std Error of Est: | 0.000106 | | |
| Predicted MDL: | 0.002477 | | |
| Predicted MQL: | 0.008258 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00234 | .000 | 1 |
| S1 | .02500 | .02879 | .004 | 15.2 | .00568 | .000 | 1 |
| S3 | 7.5000 | 7.3837 | -.116 | -1.55 | .85896 | .002 | 1 |
| S4 | 15.000 | 15.483 | .483 | 3.22 | 1.7986 | .008 | 1 |
| S5 | 30.000 | 29.646 | -.354 | -1.18 | 3.4418 | .013 | 1 |
| S2 | 3.7500 | 3.7333 | -.017 | -.445 | .43546 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



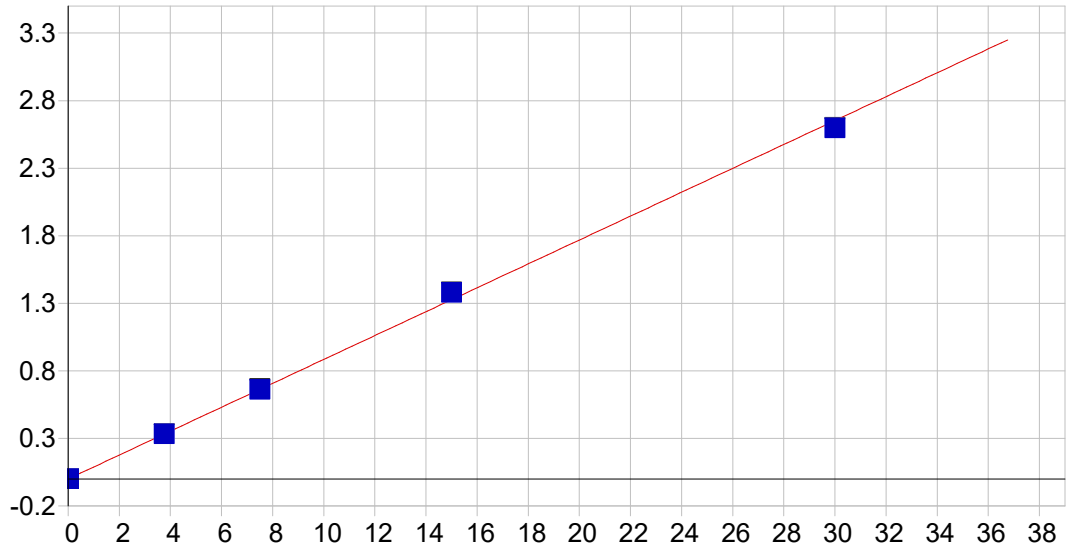

**Fe 259.837 {130}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:25:32 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000019 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.005384 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999682 | Status: | OK. |
| Std Error of Est: | 0.000059 | | |
| Predicted MDL: | 0.006447 | | |
| Predicted MQL: | 0.021492 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00002 | .000 | 1 |
| S1 | .10000 | .09550 | -.005 | -4.50 | .00052 | .000 | 1 |
| S3 | 75.000 | 73.770 | -1.23 | -1.64 | .39682 | .002 | 1 |
| S4 | 150.00 | 148.66 | -1.34 | -.894 | .79964 | .002 | 1 |
| S5 | 300.00 | 287.22 | -12.8 | -4.26 | 1.5449 | .004 | 1 |
| S2 | 37.500 | 37.601 | .101 | .269 | .20227 | .001 | 1 |
| S6 | 800.00 | 815.23 | 15.2 | 1.90 | 4.3895 | .022 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



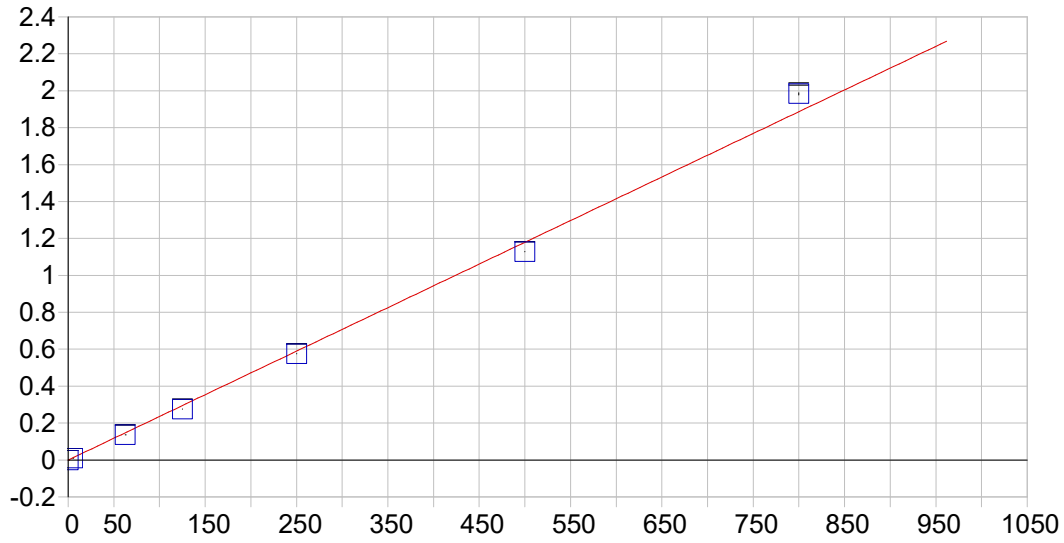

**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000015 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.088416 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999671 | Status: | OK. |
| Std Error of Est: | 0.000081 | | |
| Predicted MDL: | 0.000378 | | |
| Predicted MQL: | 0.001260 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00001 | .000 | 1 |
| S1 | .01500 | .01505 | .000 | .342 | .00132 | .000 | 1 |
| S3 | 7.5000 | 7.4919 | -.008 | -.109 | .66193 | .003 | 1 |
| S4 | 15.000 | 15.606 | .606 | 4.04 | 1.3789 | .003 | 1 |
| S5 | 30.000 | 29.389 | -.611 | -2.04 | 2.5966 | .004 | 1 |
| S2 | 3.7500 | 3.7632 | .013 | .351 | .33248 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



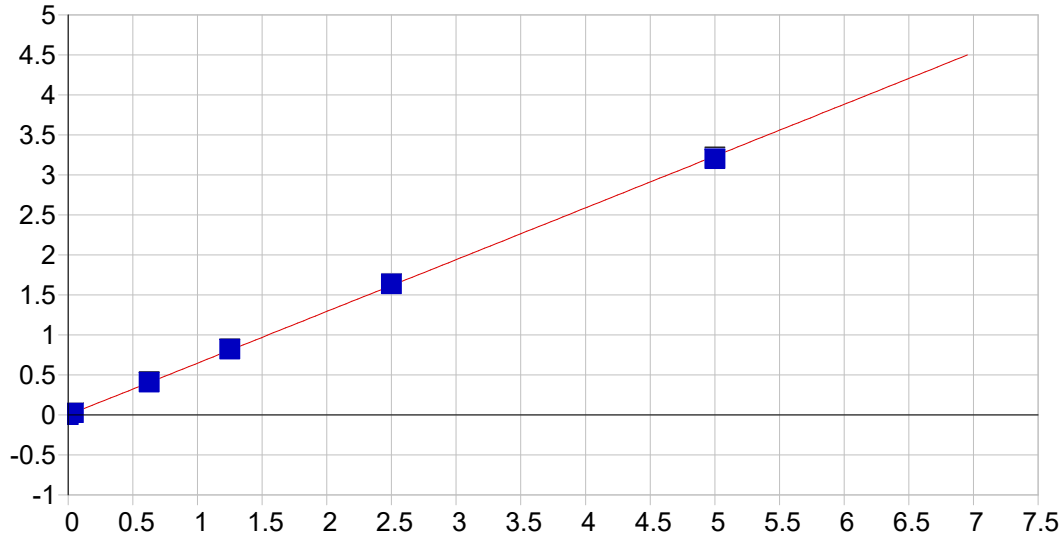

**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:25:32 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000078 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.002358 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998805 | Status: | OK. |
| Std Error of Est: | 0.000403 | | |
| Predicted MDL: | 0.018182 | | |
| Predicted MQL: | 0.060606 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00156 | .002 | .000 | -.00007 | .000 | 1 |
| S2 | 62.500 | 57.949 | -4.55 | -7.28 | .13659 | .000 | 1 |
| S3 | 125.00 | 116.79 | -8.21 | -6.57 | .27536 | .001 | 1 |
| S4 | 250.00 | 243.92 | -6.08 | -2.43 | .57519 | .001 | 1 |
| S5 | 500.00 | 478.56 | -21.4 | -4.29 | 1.1285 | .001 | 1 |
| S1 | 5.0000 | 4.2103 | -.790 | -15.8 | .00985 | .000 | 1 |
| S6 | 800.00 | 841.07 | 41.1 | 5.13 | 1.9835 | .006 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



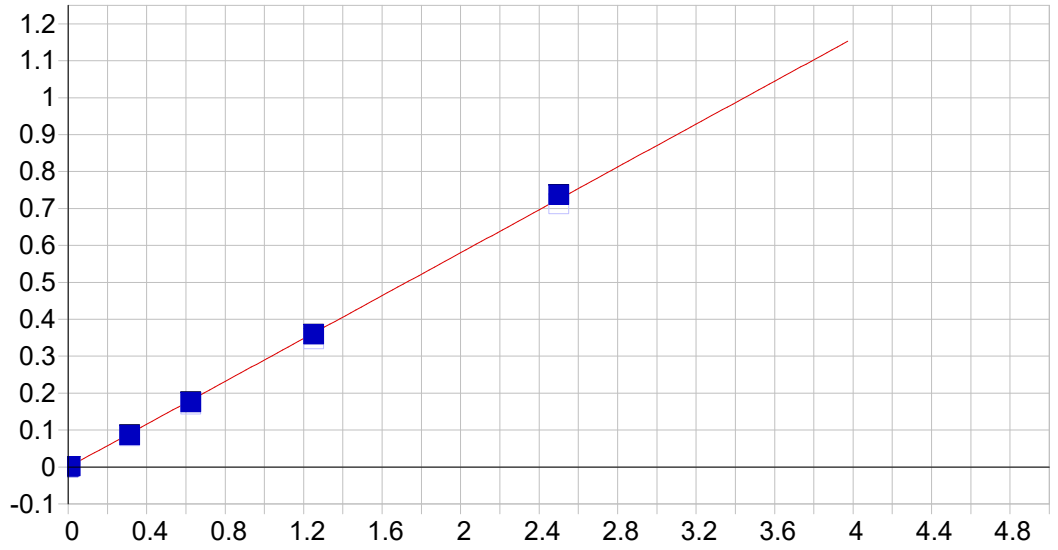

**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000412 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.647071 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999936 | Status: | OK. |
| Std Error of Est: | 0.000175 | | |
| Predicted MDL: | 0.000425 | | |
| Predicted MQL: | 0.001417 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00041 | .000 | 1 |
| S1 | .04000 | .04078 | .001 | 1.95 | .02600 | .000 | 1 |
| S3 | 1.2500 | 1.2689 | .019 | 1.51 | .82257 | .000 | 1 |
| S4 | 2.5000 | 2.5267 | .027 | 1.07 | 1.6383 | .005 | 1 |
| S5 | 5.0000 | 4.9471 | -.053 | -1.06 | 3.2083 | .014 | 1 |
| S2 | .62500 | .63145 | .006 | 1.03 | .40912 | .002 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



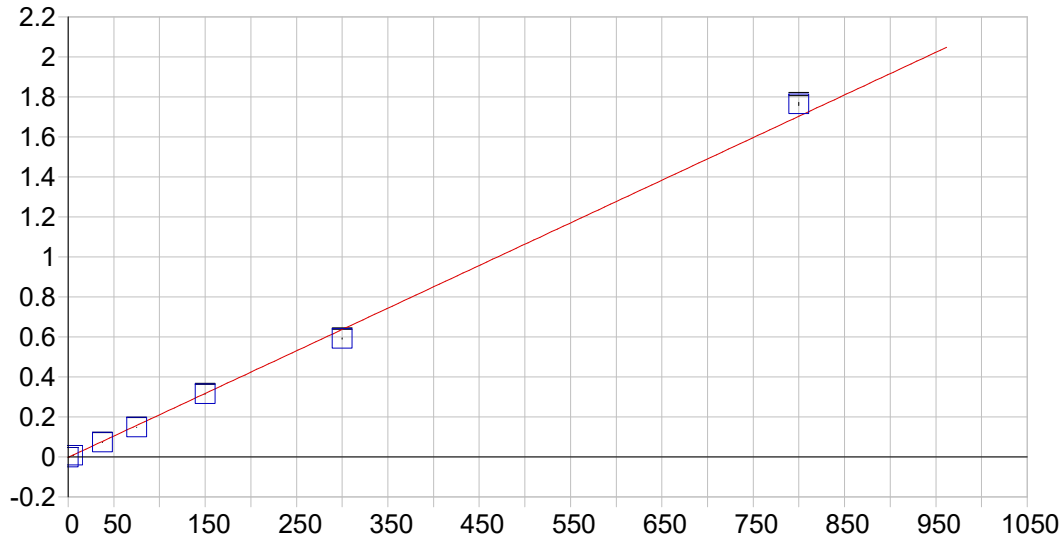

**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000494 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.290281 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999794 | Status: | OK. |
| Std Error of Est: | 0.000048 | | |
| Predicted MDL: | 0.000392 | | |
| Predicted MQL: | 0.001308 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00049 | .000 | 1 |
| S1 | .01000 | .00962 | -.000 | -3.75 | .00228 | .000 | 1 |
| S3 | .62500 | .60732 | -.018 | -2.83 | .16941 | .000 | 1 |
| S4 | 1.2500 | 1.2390 | -.011 | -.884 | .34636 | .000 | 1 |
| S5 | 2.5000 | 2.5416 | .042 | 1.66 | .71171 | .001 | 1 |
| S2 | .31250 | .30001 | -.012 | -4.00 | .08340 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



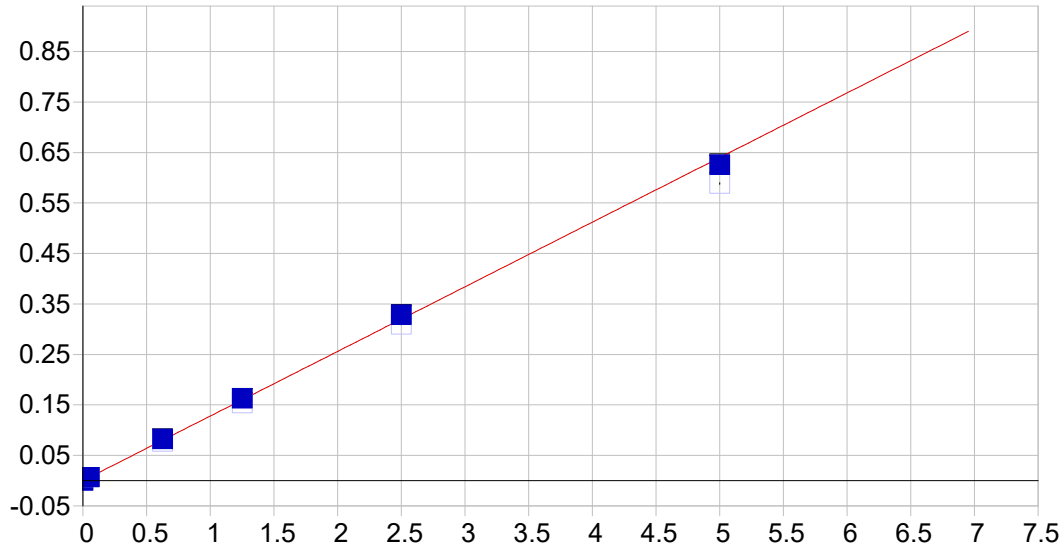

**Na 818.326 { 41}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:25:32 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.002389 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.002132 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998933 | Status: | OK. |
| Std Error of Est: | 0.000305 | | |
| Predicted MDL: | 0.395543 | | |
| Predicted MQL: | 1.318476 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00104 | .001 | .000 | -.00239 | .000 | 1 |
| S2 | 37.500 | 35.352 | -2.15 | -5.73 | .07299 | .001 | 1 |
| S3 | 75.000 | 70.557 | -4.44 | -5.92 | .14805 | .000 | 1 |
| S4 | 150.00 | 149.26 | -.739 | -.492 | .31585 | .003 | 1 |
| S5 | 300.00 | 278.88 | -21.1 | -7.04 | .59220 | .003 | 1 |
| S1 | 5.0000 | 4.7423 | -.258 | -5.15 | .00772 | .000 | 1 |
| S6 | 800.00 | 828.71 | 28.7 | 3.59 | 1.7645 | .008 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



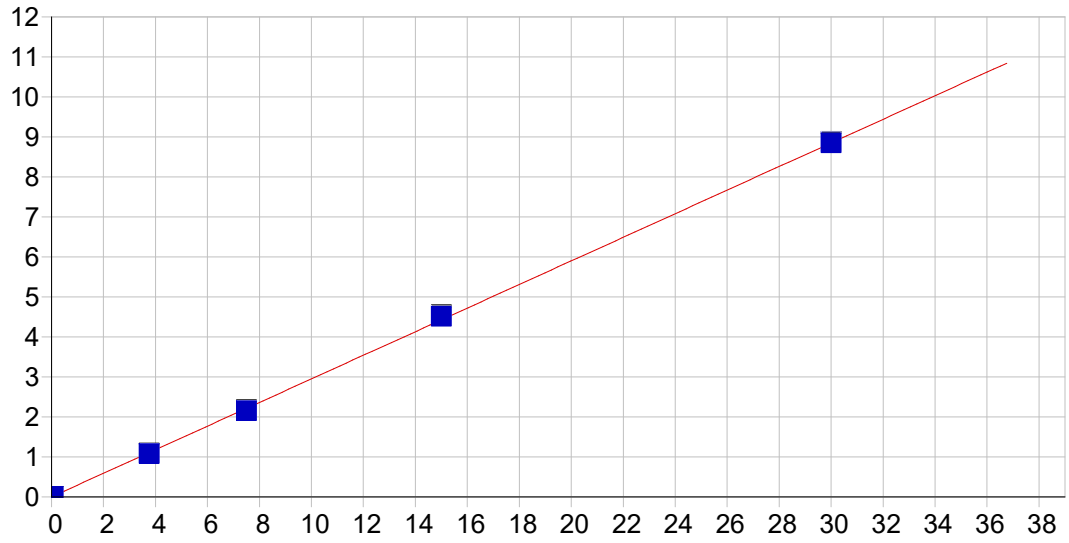

**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000020 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.128001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999676 | Status: | OK. |
| Std Error of Est: | 0.000082 | | |
| Predicted MDL: | 0.001952 | | |
| Predicted MQL: | 0.006507 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | -.00002 | .000 | 1 |
| S1 | .05000 | .05469 | .005 | 9.38 | .00697 | .000 | 1 |
| S3 | 1.2500 | 1.2729 | .023 | 1.83 | .15355 | .000 | 1 |
| S4 | 2.5000 | 2.5643 | .064 | 2.57 | .30950 | .001 | 1 |
| S5 | 5.0000 | 4.8902 | -.110 | -2.20 | .58850 | .002 | 1 |
| S2 | .62500 | .64274 | .018 | 2.84 | .07757 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



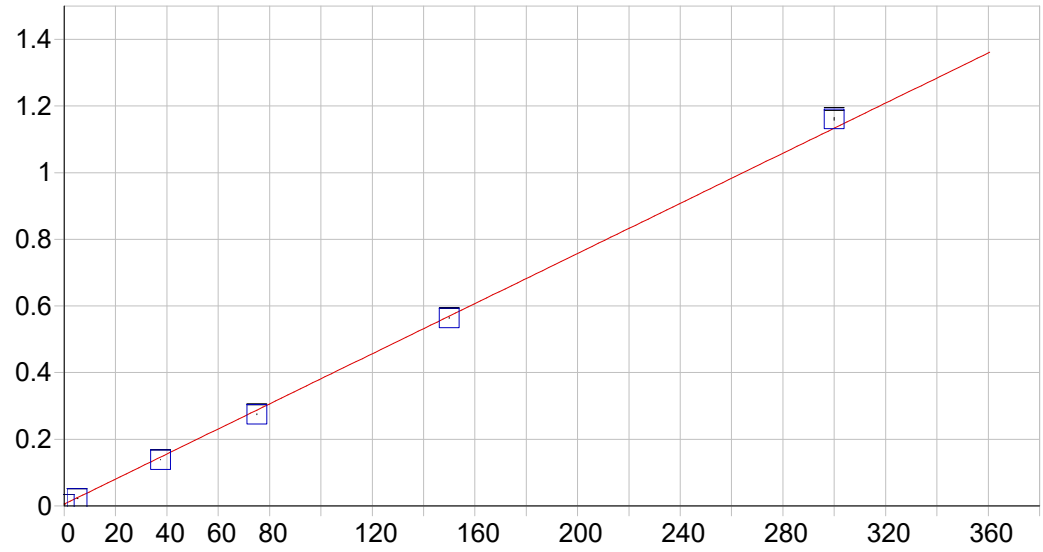

**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000335 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.294981 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999877 | Status: | OK. |
| Std Error of Est: | 0.000331 | | |
| Predicted MDL: | 0.001811 | | |
| Predicted MQL: | 0.006037 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00034 | .000 | 1 |
| S1 | .06000 | .05955 | -.000 | -.755 | .01800 | .001 | 1 |
| S3 | 7.5000 | 7.2935 | -.206 | -2.75 | 2.1601 | .013 | 1 |
| S4 | 15.000 | 15.306 | .306 | 2.04 | 4.5319 | .022 | 1 |
| S5 | 30.000 | 29.990 | -.010 | -.035 | 8.8800 | .010 | 1 |
| S2 | 3.7500 | 3.6615 | -.088 | -2.36 | 1.0846 | .008 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



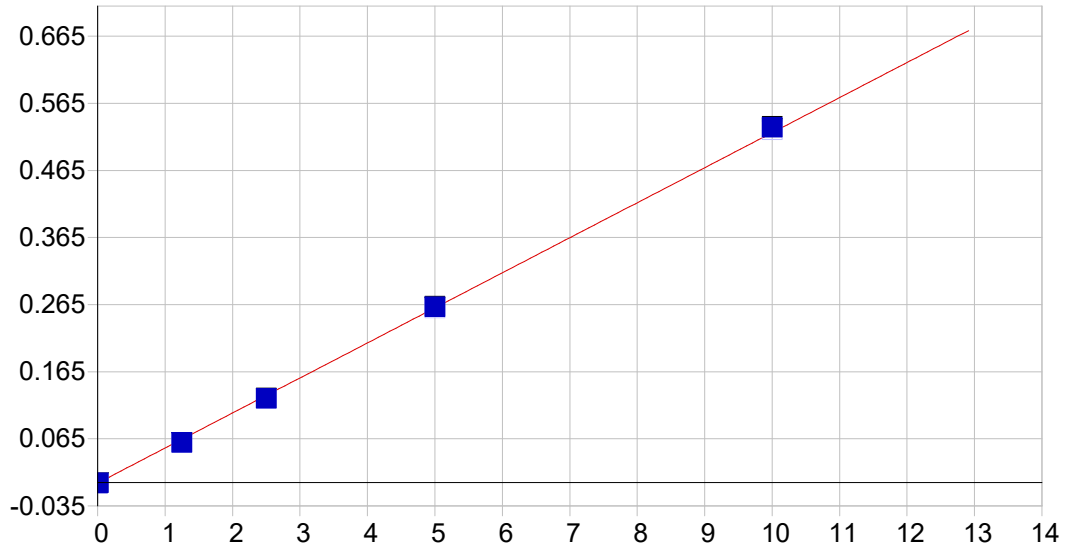

**K 769.896 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.005329 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003761 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999540 | Status: | OK. |
| Std Error of Est: | 0.000235 | | |
| Predicted MDL: | 0.051932 | | |
| Predicted MQL: | 0.173108 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00100 | .001 | .000 | .00533 | .000 | 1 |
| S2 | 37.500 | 35.461 | -2.04 | -5.44 | .13870 | .000 | 1 |
| S3 | 75.000 | 71.693 | -3.31 | -4.41 | .27496 | .002 | 1 |
| S4 | 150.00 | 148.54 | -1.46 | -.974 | .56398 | .002 | 1 |
| S5 | 300.00 | 307.39 | 7.39 | 2.46 | 1.1614 | .004 | 1 |
| S1 | 5.0000 | 4.4149 | -.585 | -11.7 | .02193 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



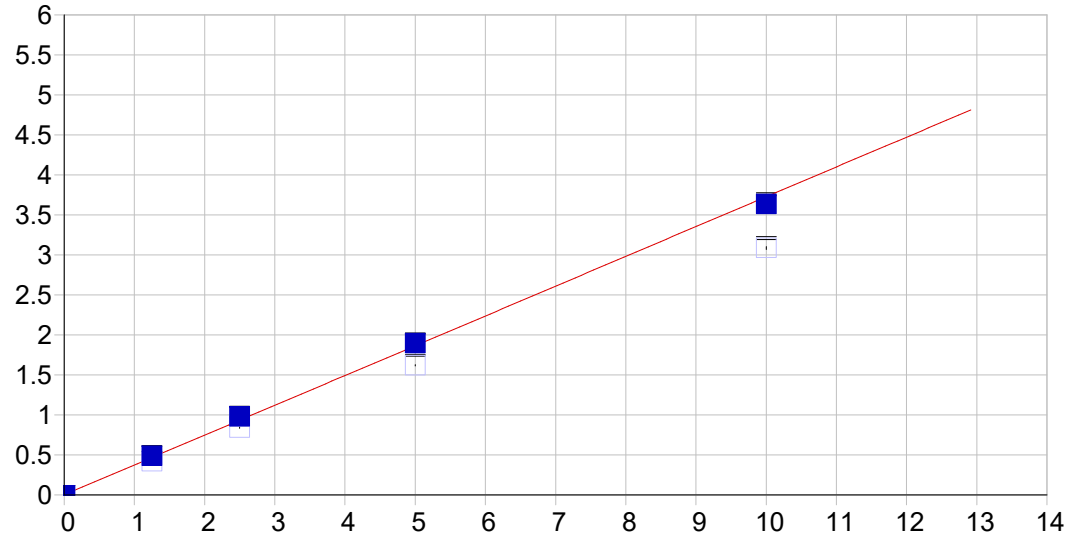

**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000991 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.052233 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999655 | Status: | OK. |
| Std Error of Est: | 0.000023 | | |
| Predicted MDL: | 0.002199 | | |
| Predicted MQL: | 0.007330 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00099 | .000 | 1 |
| S1 | .01000 | .00755 | -.002 | -24.5 | -.00060 | .000 | 1 |
| S3 | 2.5000 | 2.4212 | -.079 | -3.15 | .12454 | .000 | 1 |
| S4 | 5.0000 | 5.0272 | .027 | .545 | .25973 | .001 | 1 |
| S5 | 10.000 | 10.150 | .150 | 1.50 | .52542 | .001 | 1 |
| S2 | 1.2500 | 1.1545 | -.096 | -7.64 | .05884 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



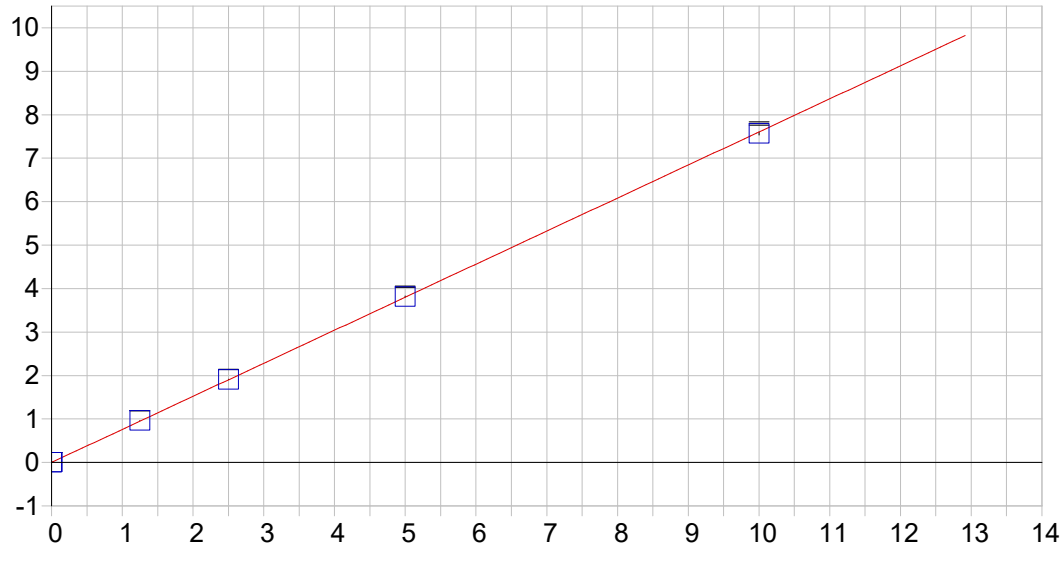

**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001600 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.372525 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999082 | Status: | OK. |
| Std Error of Est: | 0.000228 | | |
| Predicted MDL: | 0.000777 | | |
| Predicted MQL: | 0.002591 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00160 | .000 | 1 |
| S1 | .01000 | .00049 | -.010 | -95.1 | .00159 | .000 | 1 |
| S3 | 2.5000 | 2.6216 | .122 | 4.86 | .84122 | .007 | 1 |
| S4 | 5.0000 | 5.0810 | .081 | 1.62 | 1.6204 | .007 | 1 |
| S5 | 10.000 | 9.7509 | -.249 | -2.49 | 3.0861 | .017 | 1 |
| S2 | 1.2500 | 1.3070 | .057 | 4.56 | .42001 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



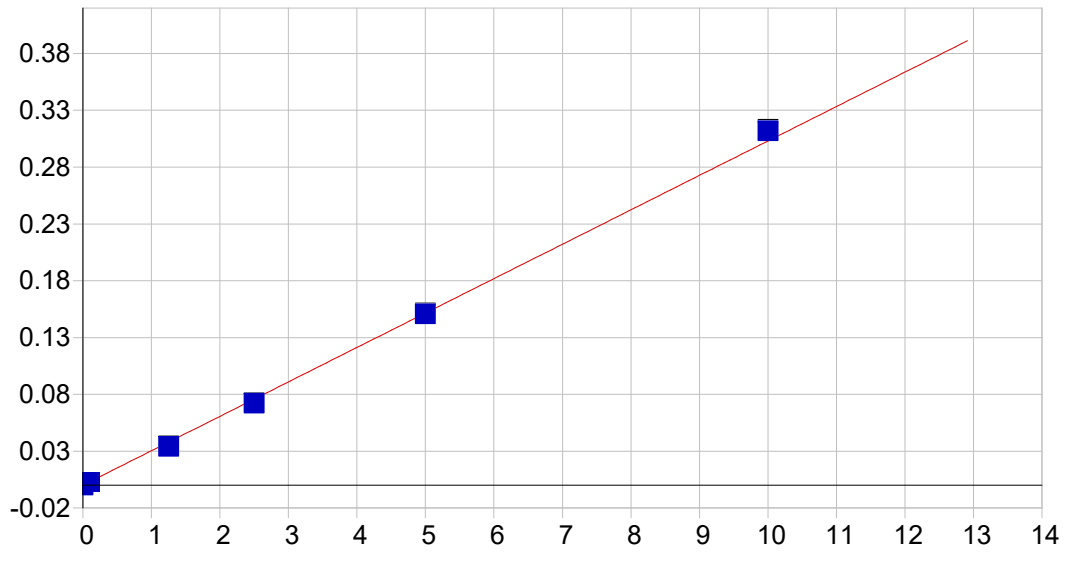

**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000115 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.760384 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999984 | Status: | OK. |
| Std Error of Est: | 0.000071 | | |
| Predicted MDL: | 0.000295 | | |
| Predicted MQL: | 0.000983 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00011 | .000 | 1 |
| S1 | .01000 | .01068 | .001 | 6.84 | .00824 | .000 | 1 |
| S3 | 2.5000 | 2.5126 | .013 | .503 | 1.9106 | .005 | 1 |
| S4 | 5.0000 | 5.0150 | .015 | .299 | 3.8134 | .015 | 1 |
| S5 | 10.000 | 9.9548 | -.045 | -.452 | 7.5696 | .035 | 1 |
| S2 | 1.2500 | 1.2669 | .017 | 1.36 | .96348 | .002 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



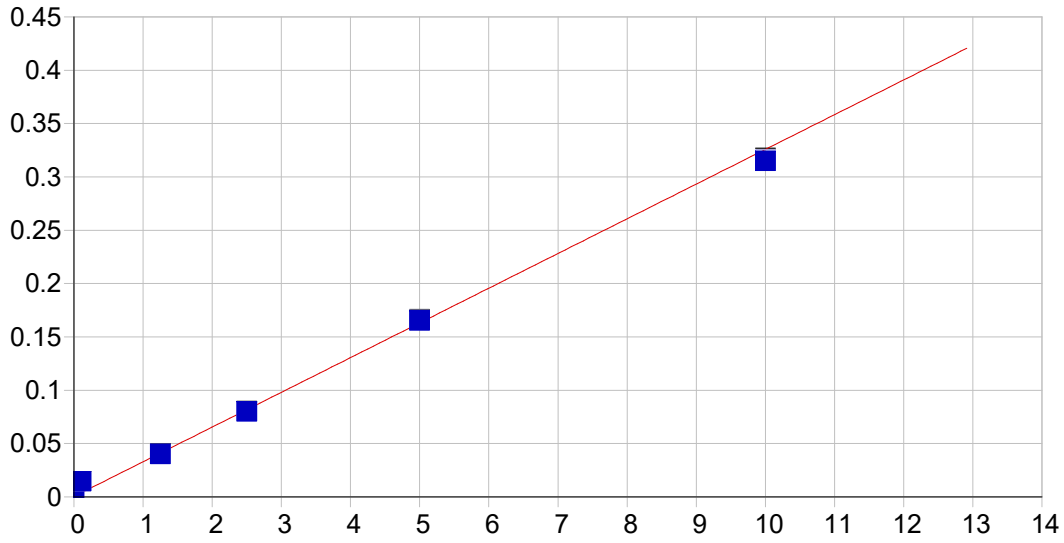

**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000006 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.030301 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999255 | Status: | OK. |
| Std Error of Est: | 0.000062 | | |
| Predicted MDL: | 0.003933 | | |
| Predicted MQL: | 0.013110 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00001 | .000 | 1 |
| S1 | .10000 | .09074 | -.009 | -9.26 | .00275 | .000 | 1 |
| S3 | 2.5000 | 2.3755 | -.125 | -4.98 | .07208 | .000 | 1 |
| S4 | 5.0000 | 4.9724 | -.028 | -.553 | .15087 | .001 | 1 |
| S5 | 10.000 | 10.287 | .287 | 2.87 | .31211 | .001 | 1 |
| S2 | 1.2500 | 1.1240 | -.126 | -10.1 | .03411 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4



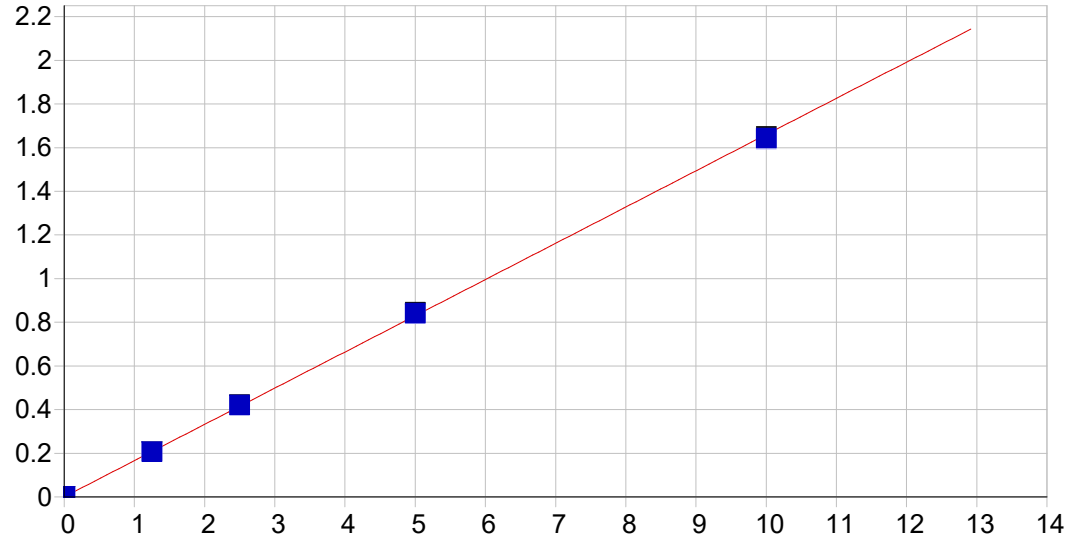

**Si 251.611 {134}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000419 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.032536 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.970444 | Status: | OK. |
| Std Error of Est: | 0.000431 | | |
| Predicted MDL: | 0.005091 | | |
| Predicted MQL: | 0.016971 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00033 | -.000 | .000 | .00041 | .000 | 1 |
| S1 | .10000 | .44026 | .340 | 340. | .01474 | .000 | 1 |
| S3 | 2.5000 | 2.4446 | -.055 | -2.21 | .08020 | .000 | 1 |
| S4 | 5.0000 | 5.0719 | .072 | 1.44 | .16593 | .000 | 1 |
| S5 | 10.000 | 9.6724 | -.328 | -3.28 | .31610 | .002 | 1 |
| S2 | 1.2500 | 1.2217 | -.028 | -2.27 | .04029 | .000 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

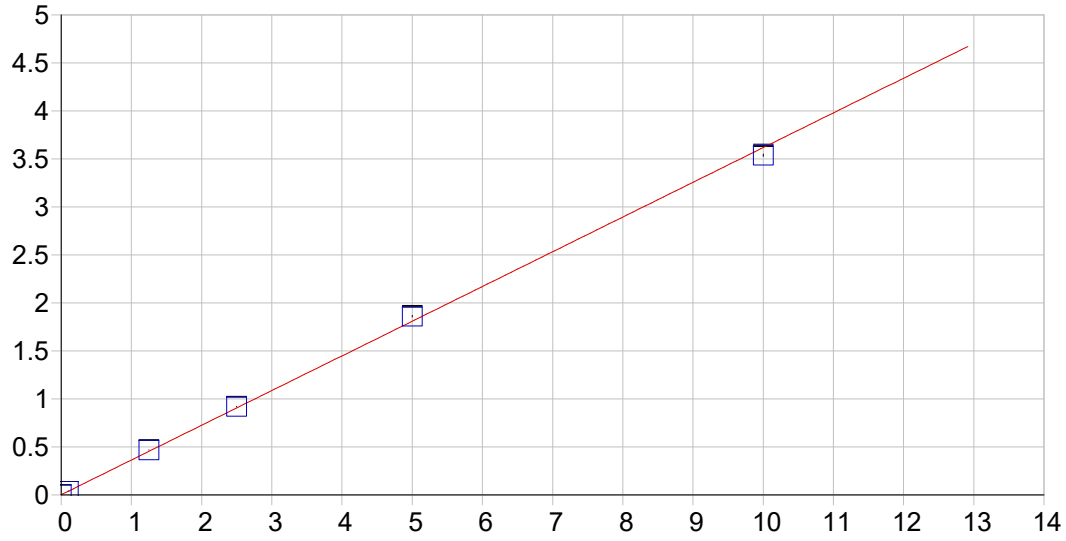



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000282 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.165950 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999933 | Status: | OK. |
| Std Error of Est: | 0.000027 | | |
| Predicted MDL: | 0.000819 | | |
| Predicted MQL: | 0.002731 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00028 | .000 | 1 |
| S1 | .00700 | .00653 | -.000 | -6.74 | .00131 | .000 | 1 |
| S3 | 2.5000 | 2.5341 | .034 | 1.36 | .41952 | .001 | 1 |
| S4 | 5.0000 | 5.0708 | .071 | 1.42 | .83921 | .004 | 1 |
| S5 | 10.000 | 9.9006 | -.099 | -.994 | 1.6381 | .008 | 1 |
| S2 | 1.2500 | 1.2450 | -.005 | -.402 | .20624 | .001 | 1 |



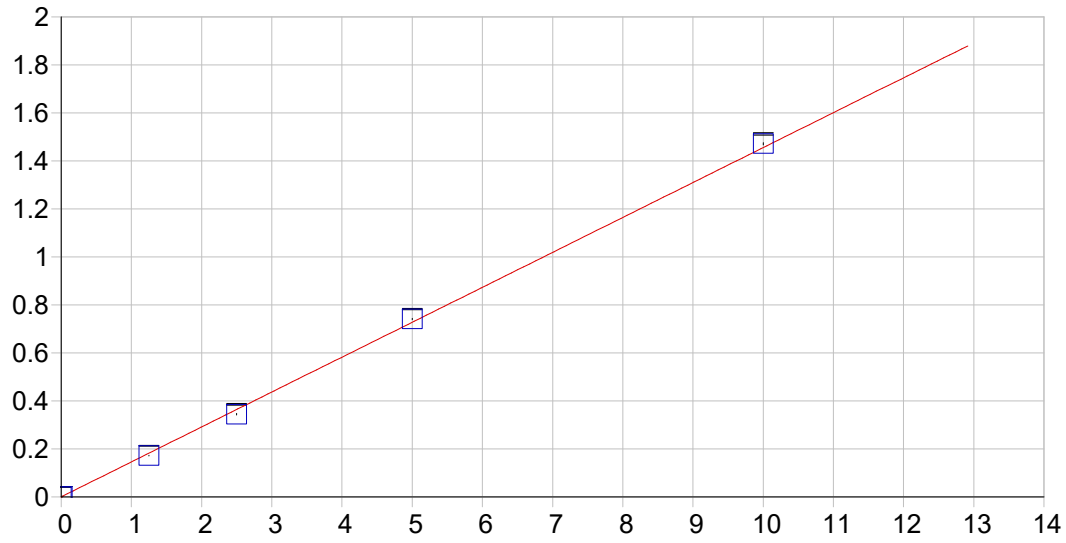

**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001904 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.361555 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999714 | Status: | OK. |
| Std Error of Est: | 0.000460 | | |
| Predicted MDL: | 0.000919 | | |
| Predicted MQL: | 0.003064 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00190 | .000 | 1 |
| S1 | .10000 | .10400 | .004 | 4.00 | .03951 | .000 | 1 |
| S3 | 2.5000 | 2.5381 | .038 | 1.52 | .91957 | .002 | 1 |
| S4 | 5.0000 | 5.1422 | .142 | 2.84 | 1.8611 | .008 | 1 |
| S5 | 10.000 | 9.7787 | -.221 | -2.21 | 3.5374 | .012 | 1 |
| S2 | 1.2500 | 1.2870 | .037 | 2.96 | .46724 | .001 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

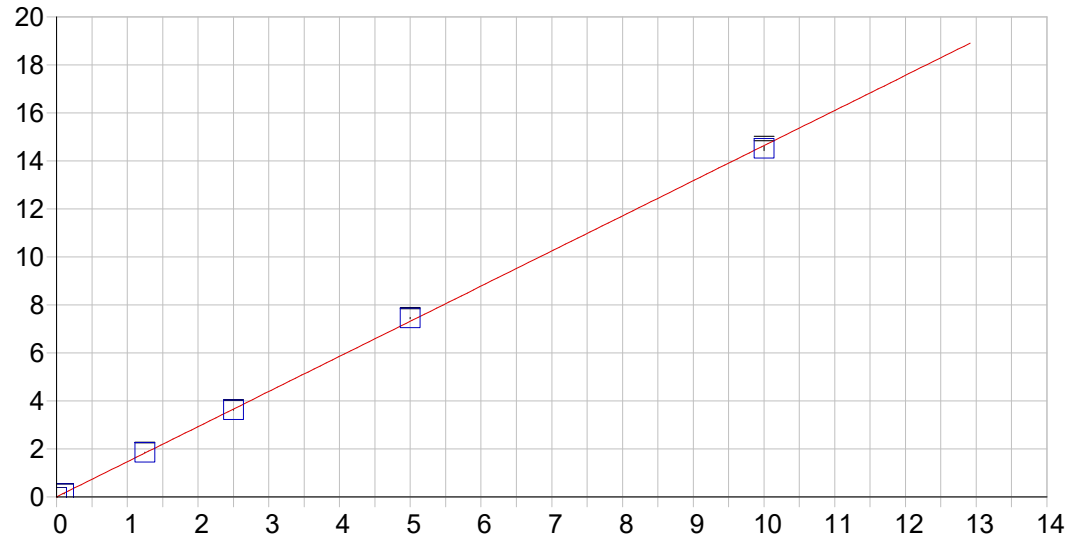



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000400 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.145489 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999614 | Status: | OK. |
| Std Error of Est: | 0.000083 | | |
| Predicted MDL: | 0.001347 | | |
| Predicted MQL: | 0.004489 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00040 | .000 | 1 |
| S5 | 10.000 | 10.111 | .111 | 1.11 | 1.4714 | .005 | 1 |
| S4 | 5.0000 | 5.0962 | .096 | 1.92 | .74184 | .003 | 1 |
| S3 | 2.5000 | 2.3647 | -.135 | -5.41 | .34443 | .003 | 1 |
| S1 | .01500 | .01355 | -.001 | -9.65 | .00237 | .000 | 1 |
| S2 | 1.2500 | 1.1796 | -.070 | -5.63 | .17202 | .001 | 1 |



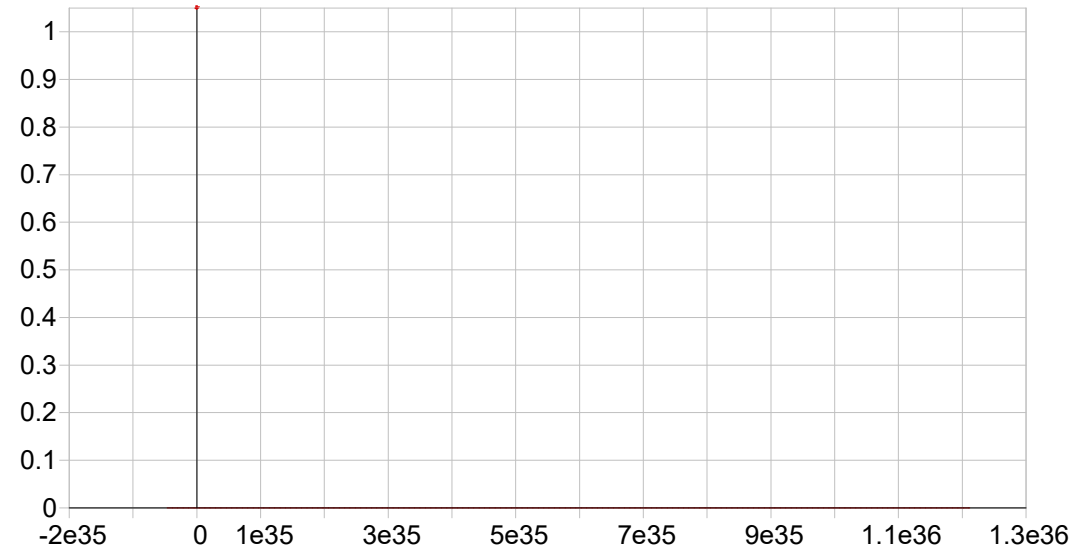

**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 15:21:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000111 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.463766 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999919 | Status: | OK. |
| Std Error of Est: | 0.000993 | | |
| Predicted MDL: | 0.000072 | | |
| Predicted MQL: | 0.000238 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00012 | .000 | 1 |
| S1 | .10000 | .09422 | -.006 | -5.78 | .13803 | .001 | 1 |
| S3 | 2.5000 | 2.4788 | -.021 | -.849 | 3.6285 | .017 | 1 |
| S4 | 5.0000 | 5.0925 | .093 | 1.85 | 7.4544 | .030 | 1 |
| S5 | 10.000 | 9.9191 | -.081 | -.809 | 14.519 | .094 | 1 |
| S2 | 1.2500 | 1.2654 | .015 | 1.23 | 1.8523 | .008 | 1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

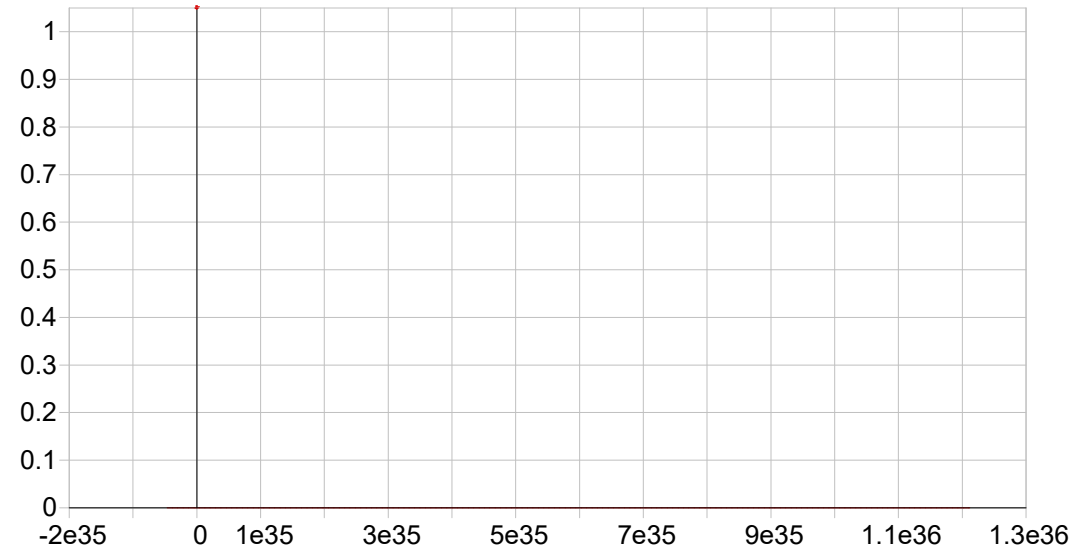



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/29/2025 14:43:41 | 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}***

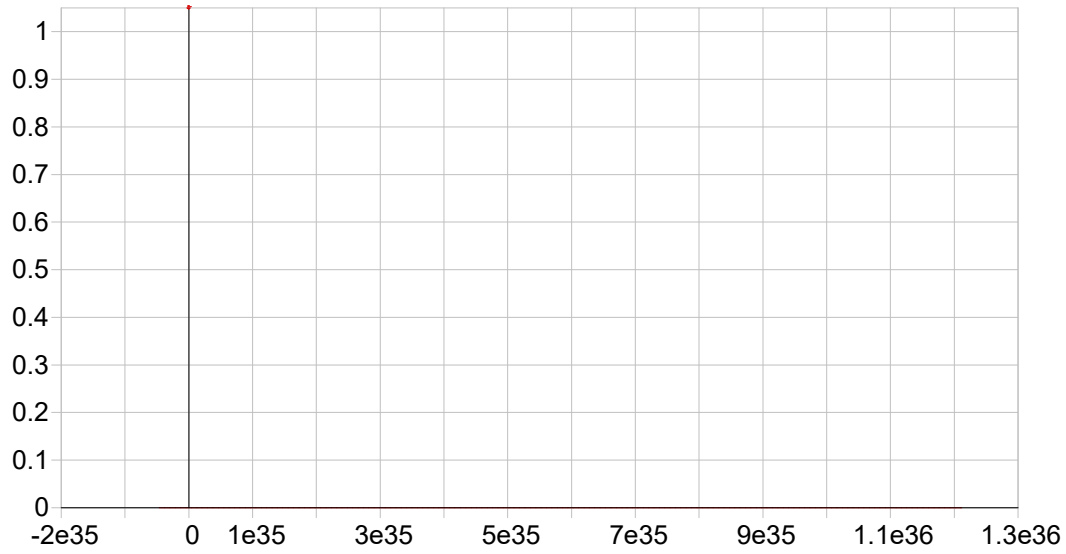
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|---|

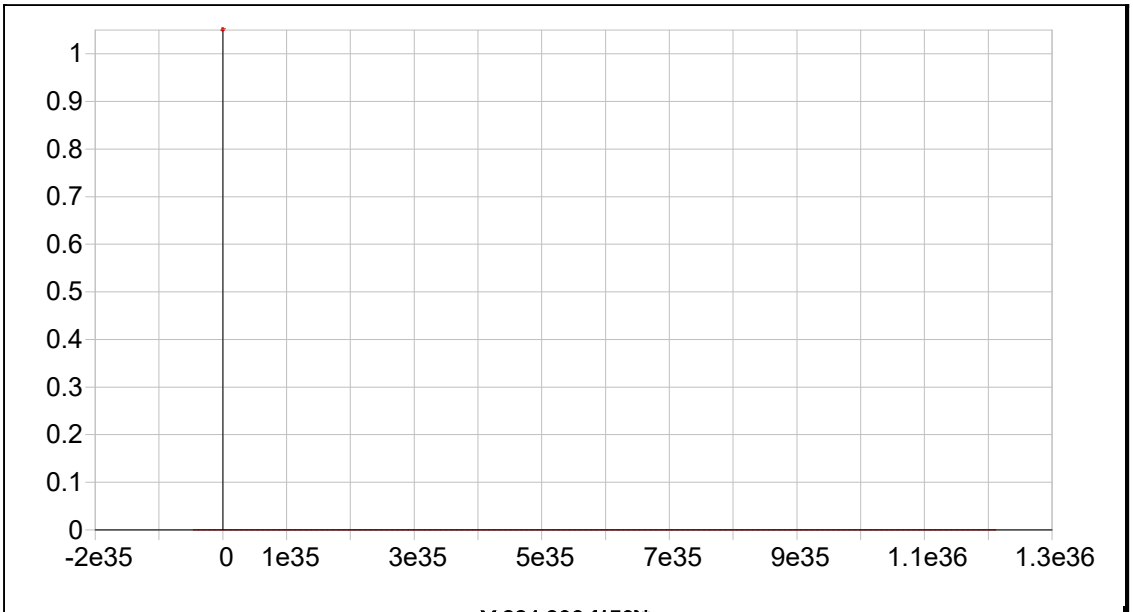



**Y 371.030 { 91}***

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|---|

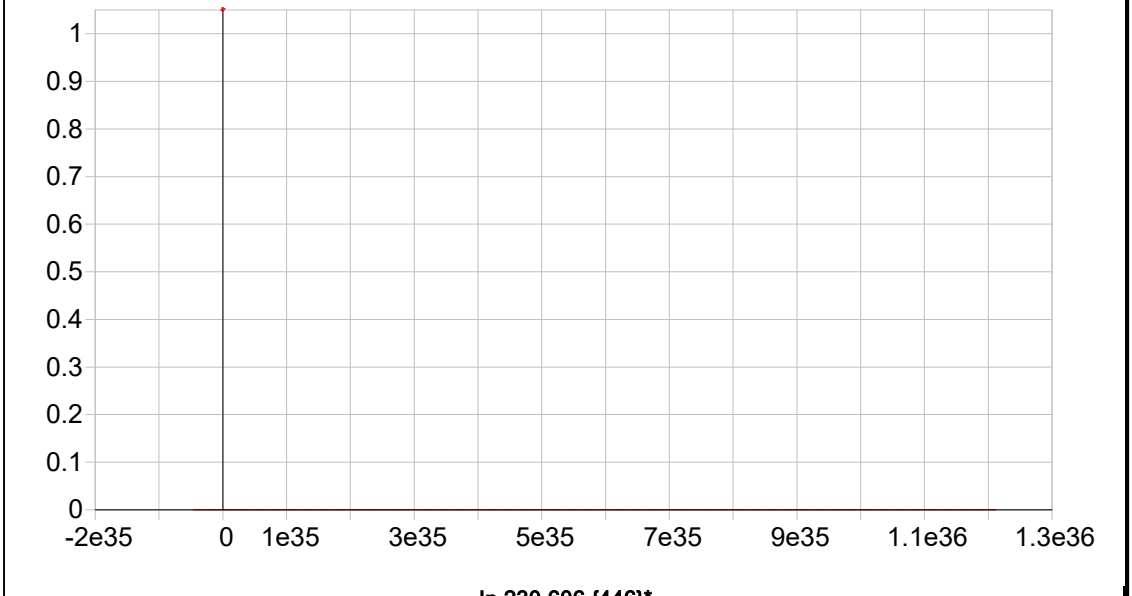
Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4




**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:1/31/2025 7:33:47 AM
Inst Id :P4

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/29/2025 14:56:12 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | **-.00017** | **.00006** | **-.00027** | **.00028** | **.00029** | **.00000** | **.00761** | **.00011** |
| Stddev | .00007 | .00005 | .00010 | .00015 | .00006 | .00006 | .00033 | .00003 |
| %RSD | 41.217 | 84.285 | 36.550 | 55.700 | 21.255 | 2834.7 | 4.3132 | 30.545 |
| #1 | -.00021 | .00009 | -.00037 | .00037 | .00030 | -.00003 | .00772 | .00012 |
| #2 | -.00021 | .00009 | -.00018 | .00037 | .00034 | .00007 | .00724 | .00013 |
| #3 | -.00009 | .00000 | -.00025 | .00010 | .00022 | -.00004 | .00786 | .00007 |

| 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 | **-.00004** | **.00004** | **-.00000** | **.00004** | **.00234** | **.00002** | **-.00001** | **-.00007** |
| Stddev | .00003 | .00004 | .00002 | .00020 | .00031 | .00001 | .00002 | .00001 |
| %RSD | 90.199 | 91.978 | 483.43 | 454.40 | 13.063 | 40.802 | 109.66 | 19.356 |
| #1 | -.00006 | .00006 | -.00002 | .00018 | .00265 | .00002 | .00000 | -.00006 |
| #2 | -.00000 | .00007 | .00001 | .00014 | .00233 | .00001 | -.00003 | -.00007 |
| #3 | -.00004 | -.00000 | .00000 | -.00018 | .00204 | .00003 | -.00002 | -.00009 |

| 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 | **-.00041** | **-.00049** | **-.00239** | **-.00002** | **.00034** | **.00533** | **-.00099** | **.00160** |
| Stddev | .00017 | .00002 | .00043 | .00018 | .00028 | .00000 | .00008 | .00015 |
| %RSD | 42.163 | 4.8886 | 18.020 | 870.57 | 82.440 | .00654 | 8.4921 | 9.1553 |
| #1 | -.00058 | -.00051 | -.00195 | -.00013 | .00046 | .00533 | -.00109 | .00158 |
| #2 | -.00023 | -.00051 | -.00281 | -.00012 | .00002 | .00533 | -.00095 | .00176 |
| #3 | -.00043 | -.00047 | -.00239 | .00019 | .00053 | .00533 | -.00094 | .00147 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00011** | **.00001** | **.00041** | **.00028** | **.00190** | **.00040** | **.00012** |
| Stddev | .00017 | .00016 | .00004 | .00003 | .00028 | .00013 | .00006 |
| %RSD | 147.91 | 2320.6 | 9.0902 | 10.948 | 14.895 | 32.698 | 50.886 |
| #1 | -.00002 | -.00017 | .00039 | .00030 | .00192 | .00044 | .00006 |
| #2 | .00006 | .00006 | .00045 | .00030 | .00161 | .00051 | .00011 |
| #3 | .00031 | .00013 | .00038 | .00025 | .00217 | .00026 | .00018 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/29/2025 14:56:12 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | 3343.6 | 69827. | 13258. | 2338.9 | 4051.8 |
| Stddev | 25.1 | 2197. | 109. | 86.0 | 29.7 |
| %RSD | .75178 | 3.1458 | .82415 | 3.6779 | .73222 |
| #1 | 3352.8 | 67304. | 13348. | 2241.0 | 4064.7 |
| #2 | 3363.0 | 70864. | 13288. | 2373.1 | 4072.9 |
| #3 | 3315.2 | 71313. | 13136. | 2402.5 | 4017.9 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/29/2025 15:00:28 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | .00048 | .00182 | .00239 | .00257 | .00818 | .00241 | .08724 | .01971 |
| Stddev | .00019 | .00006 | .00010 | .00020 | .00007 | .00009 | .00102 | .00022 |
| %RSD | 38.611 | 3.3558 | 4.2021 | 7.7950 | .80053 | 3.6535 | 1.1744 | 1.0963 |
| #1 | .00027 | .00189 | .00235 | .00234 | .00816 | .00232 | .08609 | .01946 |
| #2 | .00061 | .00181 | .00231 | .00263 | .00826 | .00242 | .08757 | .01983 |
| #3 | .00057 | .00177 | .00250 | .00273 | .00813 | .00250 | .08806 | .01984 |

| 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 | .01398 | .04095 | .00181 | .04519 | .00568 | .00052 | .00132 | .00985 |
| Stddev | .00011 | .00032 | .00006 | .00026 | .00041 | .00002 | .00000 | .00009 |
| %RSD | .75118 | .77427 | 3.5146 | .57052 | 7.2164 | 4.3711 | .09298 | .89940 |
| #1 | .01388 | .04061 | .00178 | .04540 | .00564 | .00050 | .00131 | .00975 |
| #2 | .01399 | .04101 | .00188 | .04490 | .00611 | .00053 | .00132 | .00990 |
| #3 | .01409 | .04123 | .00176 | .04527 | .00529 | .00054 | .00132 | .00991 |

| 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 | .02600 | .00228 | .00772 | .00697 | .01800 | .02193 | -.00060 | .00159 |
| Stddev | .00031 | .00008 | .00050 | .00020 | .00068 | .00020 | .00006 | .00021 |
| %RSD | 1.1911 | 3.3892 | 6.4102 | 2.9147 | 3.7756 | .89278 | 9.3858 | 13.438 |
| #1 | .02633 | .00222 | .00732 | .00717 | .01879 | .02192 | -.00060 | .00136 |
| #2 | .02598 | .00237 | .00758 | .00698 | .01759 | .02214 | -.00054 | .00164 |
| #3 | .02571 | .00226 | .00827 | .00676 | .01763 | .02175 | -.00066 | .00177 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00824 | .00275 | .01474 | .00131 | .03951 | .00237 | .13803 |
| Stddev | .00016 | .00001 | .00026 | .00010 | .00024 | .00006 | .00138 |
| %RSD | 1.9621 | .52399 | 1.7816 | 7.8587 | .61200 | 2.7396 | 1.0013 |
| #1 | .00841 | .00274 | .01502 | .00122 | .03975 | .00236 | .13657 |
| #2 | .00809 | .00276 | .01471 | .00143 | .03950 | .00244 | .13820 |
| #3 | .00822 | .00276 | .01450 | .00129 | .03927 | .00231 | .13932 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/29/2025 15:00:28 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | 3304.0 | 69989. | 13082. | 2337.6 | 3957.6 |
| Stddev | 1.1 | 129. | 132. | 8.4 | 2.3 |
| %RSD | .03434 | .18414 | 1.0070 | .36092 | .05752 |
| | | | | | |
| #1 | 3303.7 | 70073. | 12955. | 2344.3 | 3955.3 |
| #2 | 3305.3 | 70054. | 13072. | 2340.3 | 3959.8 |
| #3 | 3303.1 | 69841. | 13218. | 2328.1 | 3957.7 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/29/2025 15:04:43 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | **.07415** | **.08683** | **1.5293** | **.07533** | **.16884** | **.45755** | **1.0741** | **.46130** |
| Stddev | .00016 | .00054 | .0017 | .00038 | .00024 | .00146 | .0057 | .00202 |
| %RSD | .21176 | .62320 | .10969 | .49999 | .14481 | .31956 | .53460 | .43816 |
| #1 | .07430 | .08647 | 1.5280 | .07538 | .16858 | .45601 | 1.0680 | .46241 |
| #2 | .07399 | .08745 | 1.5289 | .07494 | .16890 | .45773 | 1.0749 | .46252 |
| #3 | .07415 | .08657 | 1.5312 | .07568 | .16906 | .45892 | 1.0794 | .45897 |

| 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 | **1.7461** | **.53066** | **.67926** | **.56852** | **.43546** | **.20227** | **.33248** | **.13659** |
| Stddev | .0036 | .00141 | .00036 | .00112 | .00122 | .00081 | .00130 | .00040 |
| %RSD | .20607 | .26556 | .05361 | .19639 | .27931 | .40246 | .39170 | .29632 |
| #1 | 1.7421 | .52906 | .67895 | .56730 | .43506 | .20144 | .33122 | .13613 |
| #2 | 1.7475 | .53124 | .67966 | .56876 | .43683 | .20232 | .33241 | .13674 |
| #3 | 1.7489 | .53169 | .67917 | .56949 | .43450 | .20306 | .33382 | .13689 |

| 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 | **.40912** | **.08340** | **.07299** | **.07757** | **1.0846** | **.13870** | **.05884** | **.42001** |
| Stddev | .00182 | .00018 | .00095 | .00010 | .0083 | .00033 | .00005 | .00061 |
| %RSD | .44571 | .21613 | 1.2960 | .12663 | .76794 | .23605 | .09312 | .14534 |
| #1 | .40704 | .08358 | .07406 | .07752 | 1.0750 | .13837 | .05882 | .42043 |
| #2 | .40993 | .08339 | .07260 | .07751 | 1.0903 | .13870 | .05880 | .42029 |
| #3 | .41041 | .08322 | .07230 | .07769 | 1.0884 | .13902 | .05891 | .41931 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.96348** | **.03411** | **.04029** | **.20624** | **.46724** | **.17202** | **1.8523** |
| Stddev | .00192 | .00027 | .00013 | .00061 | .00140 | .00087 | .0078 |
| %RSD | .19944 | .78002 | .32056 | .29760 | .29875 | .50322 | .42338 |
| #1 | .96151 | .03437 | .04016 | .20553 | .46600 | .17121 | 1.8450 |
| #2 | .96358 | .03384 | .04030 | .20661 | .46875 | .17192 | 1.8515 |
| #3 | .96535 | .03414 | .04041 | .20658 | .46696 | .17293 | 1.8606 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/29/2025 15:04:43 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | 3203.8 | 66626. | 13210. | 2232.1 | 3628.8 |
| Stddev | 1.0 | 40. | 69. | 9.5 | 5.1 |
| %RSD | .03155 | .06048 | .51886 | .42703 | .14154 |
| #1 | 3204.5 | 66655. | 13168. | 2235.3 | 3634.3 |
| #2 | 3204.2 | 66580. | 13173. | 2221.3 | 3624.2 |
| #3 | 3202.6 | 66643. | 13289. | 2239.5 | 3627.9 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/29/2025 15:08:39 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | .15018 | .17295 | 3.0860 | .15104 | .34204 | .91985 | 2.1382 | .93362 |
| Stddev | .00026 | .00034 | .0076 | .00039 | .00048 | .00564 | .0217 | .00694 |
| %RSD | .17462 | .19691 | .24619 | .25790 | .13986 | .61292 | 1.0149 | .74382 |
| #1 | .15027 | .17330 | 3.0908 | .15061 | .34199 | .92430 | 2.1565 | .92994 |
| #2 | .14988 | .17262 | 3.0773 | .15136 | .34159 | .92175 | 2.1440 | .92929 |
| #3 | .15038 | .17292 | 3.0901 | .15115 | .34255 | .91351 | 2.1142 | .94163 |

| 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 | 3.5417 | 1.0548 | 1.3386 | 1.1436 | .85896 | .39682 | .66193 | .27536 |
| Stddev | .0091 | .0051 | .0029 | .0021 | .00189 | .00182 | .00348 | .00082 |
| %RSD | .25706 | .48743 | .22006 | .18603 | .21956 | .45786 | .52519 | .29633 |
| #1 | 3.5438 | 1.0593 | 1.3417 | 1.1440 | .86113 | .39849 | .66439 | .27592 |
| #2 | 3.5318 | 1.0560 | 1.3359 | 1.1413 | .85805 | .39707 | .66344 | .27574 |
| #3 | 3.5496 | 1.0492 | 1.3380 | 1.1454 | .85770 | .39489 | .65795 | .27443 |

| 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 | .82257 | .16941 | .14805 | .15355 | 2.1601 | .27496 | .12454 | .84122 |
| Stddev | .00044 | .00021 | .00048 | .00034 | .0129 | .00157 | .00021 | .00742 |
| %RSD | .05302 | .12196 | .32579 | .22114 | .59784 | .57170 | .17065 | .88184 |
| #1 | .82283 | .16937 | .14810 | .15389 | 2.1666 | .27628 | .12430 | .83878 |
| #2 | .82280 | .16963 | .14754 | .15321 | 2.1685 | .27538 | .12471 | .83533 |
| #3 | .82206 | .16922 | .14850 | .15355 | 2.1453 | .27322 | .12461 | .84956 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.9106 | .07208 | .08020 | .41952 | .91957 | .34443 | 3.6285 |
| Stddev | .0046 | .00022 | .00021 | .00065 | .00218 | .00320 | .0168 |
| %RSD | .23932 | .31187 | .26698 | .15491 | .23660 | .92845 | .46261 |
| #1 | 1.9102 | .07196 | .07997 | .41951 | .92196 | .34706 | 3.6475 |
| #2 | 1.9063 | .07194 | .08023 | .41888 | .91770 | .34536 | 3.6220 |
| #3 | 1.9154 | .07234 | .08040 | .42018 | .91905 | .34087 | 3.6159 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/29/2025 15:08:39 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | 3093.8 | 65077. | 12911. | 2185.2 | 3420.0 |
| Stddev | 6.5 | 60. | 84. | 2.8 | 1.8 |
| %RSD | .21163 | .09216 | .65340 | .12940 | .05360 |
| | | | | | |
| #1 | 3098.2 | 65017. | 12956. | 2187.9 | 3421.7 |
| #2 | 3096.8 | 65077. | 12964. | 2182.3 | 3420.0 |
| #3 | 3086.2 | 65137. | 12814. | 2185.6 | 3418.1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/29/2025 15:12:36 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | .30725 | .33591 | 6.1962 | .30623 | .69977 | 1.9216 | 4.4517 | 1.8310 |
| Stddev | .00197 | .00257 | .0239 | .00175 | .00450 | .0071 | .0088 | .0065 |
| %RSD | .64176 | .76562 | .38637 | .57105 | .64316 | .37038 | .19862 | .35386 |
| #1 | .30587 | .33535 | 6.1888 | .30498 | .69543 | 1.9178 | 4.4595 | 1.8297 |
| #2 | .30638 | .33367 | 6.1769 | .30549 | .69947 | 1.9298 | 4.4533 | 1.8253 |
| #3 | .30951 | .33872 | 6.2230 | .30823 | .70441 | 1.9172 | 4.4421 | 1.8380 |

| 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 | 7.0497 | 2.1640 | 2.6144 | 2.2941 | 1.7986 | .79964 | 1.3789 | .57519 |
| Stddev | .0228 | .0031 | .0024 | .0077 | .0079 | .00219 | .0029 | .00099 |
| %RSD | .32412 | .14243 | .09257 | .33792 | .43802 | .27350 | .20846 | .17143 |
| #1 | 7.0474 | 2.1629 | 2.6119 | 2.2900 | 1.8068 | .79798 | 1.3808 | .57477 |
| #2 | 7.0281 | 2.1675 | 2.6167 | 2.2893 | 1.7911 | .80212 | 1.3803 | .57631 |
| #3 | 7.0736 | 2.1616 | 2.6147 | 2.3031 | 1.7979 | .79882 | 1.3756 | .57448 |

| 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 | 1.6383 | .34636 | .31585 | .30950 | 4.5319 | .56398 | .25973 | 1.6204 |
| Stddev | .0048 | .00023 | .00285 | .00081 | .0224 | .00153 | .00087 | .0070 |
| %RSD | .29402 | .06740 | .90291 | .26195 | .49512 | .27055 | .33684 | .43138 |
| #1 | 1.6374 | .34626 | .31887 | .31008 | 4.5552 | .56335 | .25969 | 1.6256 |
| #2 | 1.6341 | .34663 | .31320 | .30857 | 4.5302 | .56571 | .25888 | 1.6125 |
| #3 | 1.6436 | .34620 | .31549 | .30984 | 4.5104 | .56286 | .26062 | 1.6232 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.8134 | .15087 | .16593 | .83921 | 1.8611 | .74184 | 7.4544 |
| Stddev | .0155 | .00054 | .00044 | .00383 | .0082 | .00261 | .0299 |
| %RSD | .40535 | .35989 | .26614 | .45602 | .44177 | .35236 | .40089 |
| #1 | 3.8044 | .15049 | .16639 | .83786 | 1.8673 | .74240 | 7.4219 |
| #2 | 3.8046 | .15061 | .16587 | .83624 | 1.8518 | .74413 | 7.4807 |
| #3 | 3.8313 | .15149 | .16551 | .84353 | 1.8641 | .73899 | 7.4606 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/29/2025 15:12:36 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | **2910.8** | **62779.** | **12719.** | **2087.3** | **3166.3** |
| Stddev | 6.8 | 119. | 60. | 3.8 | 4.6 |
| %RSD | .23497 | .18937 | .47487 | .18155 | .14498 |
| | | | | | |
| #1 | 2917.5 | 62915. | 12711. | 2083.0 | 3168.0 |
| #2 | 2911.1 | 62698. | 12783. | 2088.8 | 3169.8 |
| #3 | 2903.8 | 62722. | 12663. | 2090.1 | 3161.1 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/29/2025 15:16:38 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | **.63609** | **.63940** | **12.188** | **.62626** | **1.4480** | **3.8556** | **8.5860** | **3.6229** |
| Stddev | .00279 | .00600 | .047 | .00264 | .0057 | .0227 | .0387 | .0189 |
| %RSD | .43819 | .93794 | .38749 | .42103 | .39622 | .58992 | .45094 | .52172 |
| #1 | .63463 | .63355 | 12.172 | .62396 | 1.4449 | 3.8294 | 8.6290 | 3.6089 |
| #2 | .63433 | .63910 | 12.151 | .62568 | 1.4445 | 3.8676 | 8.5539 | 3.6154 |
| #3 | .63930 | .64554 | 12.242 | .62914 | 1.4546 | 3.8699 | 8.5750 | 3.6444 |

| 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 | **13.640** | **4.1591** | **4.9779** | **4.5210** | **3.4418** | **1.5449** | **2.5966** | **1.1285** |
| Stddev | .060 | .0184 | .0117 | .0163 | .0133 | .0045 | .0037 | .0014 |
| %RSD | .43985 | .44137 | .23503 | .35964 | .38617 | .28926 | .14407 | .12029 |
| #1 | 13.615 | 4.1415 | 4.9760 | 4.5145 | 3.4303 | 1.5495 | 2.5947 | 1.1299 |
| #2 | 13.596 | 4.1781 | 4.9905 | 4.5090 | 3.4387 | 1.5447 | 2.6009 | 1.1286 |
| #3 | 13.708 | 4.1575 | 4.9673 | 4.5395 | 3.4563 | 1.5405 | 2.5941 | 1.1272 |

| 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 | **3.2083** | **.71171** | **.59220** | **.58850** | **8.8800** | **1.1614** | **.52542** | **3.0861** |
| Stddev | .0138 | .00061 | .00339 | .00158 | .0096 | .0044 | .00135 | .0168 |
| %RSD | .42950 | .08509 | .57187 | .26810 | .10761 | .37563 | .25671 | .54269 |
| #1 | 3.2051 | .71237 | .58886 | .58756 | 8.8707 | 1.1661 | .52612 | 3.0713 |
| #2 | 3.1964 | .71117 | .59212 | .58762 | 8.8795 | 1.1607 | .52387 | 3.0826 |
| #3 | 3.2234 | .71159 | .59563 | .59032 | 8.8898 | 1.1574 | .52628 | 3.1043 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **7.5696** | **.31211** | **.31610** | **1.6381** | **3.5374** | **1.4714** | **14.519** |
| Stddev | .0353 | .00108 | .00168 | .0079 | .0121 | .0046 | .094 |
| %RSD | .46628 | .34543 | .52995 | .48358 | .34280 | .31472 | .64565 |
| #1 | 7.5452 | .31178 | .31463 | 1.6374 | 3.5318 | 1.4756 | 14.576 |
| #2 | 7.5536 | .31123 | .31574 | 1.6306 | 3.5291 | 1.4722 | 14.411 |
| #3 | 7.6101 | .31331 | .31793 | 1.6464 | 3.5513 | 1.4665 | 14.570 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/29/2025 15:16:38 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | 2628.7 | 59032. | 12208. | 1910.3 | 2859.1 |
| Stddev | 10.1 | 22. | 72. | 3.1 | 11.2 |
| %RSD | .38465 | .03651 | .59286 | .16315 | .39149 |
| #1 | 2635.2 | 59052. | 12266. | 1910.5 | 2865.0 |
| #2 | 2633.8 | 59036. | 12231. | 1913.3 | 2866.1 |
| #3 | 2617.1 | 59009. | 12127. | 1907.1 | 2846.2 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: S6 Acquired: 1/29/2025 15:21:07 Type: Cal
Method: EPA SFAM01.0(v59) Mode: IR Corr. Factor: 1.000000
User: Kareem 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 | **11.058** | **7.2336** | **4.3895** | **1.9835** | **1.7645** |
| Stddev | .022 | .0278 | .0220 | .0058 | .0085 |
| %RSD | .19895 | .38421 | .50066 | .29055 | .47942 |
| | | | | | |
| #1 | 11.057 | 7.2098 | 4.3695 | 1.9773 | 1.7713 |
| #2 | 11.080 | 7.2269 | 4.3861 | 1.9843 | 1.7550 |
| #3 | 11.036 | 7.2641 | 4.4130 | 1.9888 | 1.7672 |

| Int. Std. | Y_3600 | Y_3710 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **54428.** | **12060.** |
| Stddev | 167. | 33. |
| %RSD | .30660 | .27646 |
| | | |
| #1 | 54600. | 12086. |
| #2 | 54417. | 12071. |
| #3 | 54267. | 12022. |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICV005 Acquired: 1/29/2025 15:31:10 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9990606** | **1.030469** | **.9580774** | **.9667031** | **1.001295** | **2.351126** |
| Stddev | .0056953 | .015157 | .0026986 | .0058509 | .002675 | .013824 |
| %RSD | .5700686 | 1.470855 | .2816683 | .6052408 | .2671288 | .5879655 |
| #1 | .9931768 | 1.016518 | .9566313 | .9619182 | .998407 | 2.366601 |
| #2 | .9994582 | 1.028293 | .9564101 | .9649650 | 1.001790 | 2.346782 |
| #3 | 1.004547 | 1.046596 | .9611909 | .9732261 | 1.003687 | 2.339997 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5624476** | **.4942479** | **.4877198** | **10.05475** | **.5347769** | **.4888557** |
| Stddev | .0047080 | .0010559 | .0016726 | .07615 | .0026056 | .0017389 |
| %RSD | .8370527 | .2136484 | .3429412 | .7573965 | .4872352 | .3557094 |
| #1 | .5669708 | .4935556 | .4864727 | 10.13007 | .5372316 | .4869830 |
| #2 | .5627976 | .4937249 | .4870662 | 10.05638 | .5350562 | .4891647 |
| #3 | .5575744 | .4954633 | .4896205 | 9.97779 | .5320428 | .4904194 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4756728** | **9.288009** | **.5515622** | **5.781006** | **.4931815** | **.2258069** |
| Stddev | .0016367 | .065925 | .0033645 | .020225 | .0006043 | .0013151 |
| %RSD | .3440858 | .7097891 | .6099988 | .3498502 | .1225252 | .5824196 |
| #1 | .4738989 | 9.350894 | .5544574 | 5.773981 | .4927347 | .2266075 |
| #2 | .4771244 | 9.293719 | .5523581 | 5.803807 | .4929407 | .2265241 |
| #3 | .4759951 | 9.219415 | .5478711 | 5.765231 | .4938690 | .2242890 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.30212** | **.4966874** | **.9336785** | **9.526703** | **5.082850** | F **.0233640** |
| Stddev | .20224 | .0032236 | .0025832 | .083659 | .022333 | .0010429 |
| %RSD | 1.963078 | .6490204 | .2766645 | .8781557 | .4393753 | 4.463836 |
| #1 | 10.14584 | .5004097 | .9308458 | 9.620429 | 5.068428 | .0236183 |
| #2 | 10.53054 | .4948236 | .9342860 | 9.500102 | 5.071547 | .0242563 |
| #3 | 10.22999 | .4948289 | .9359038 | 9.459579 | 5.108575 | .0222175 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICV005 Acquired: 1/29/2025 15:31:10 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV005 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F -.000211 | 4.816161 | F .0079037 | 5.398317 | F -.001064 | 4.922811 |
| Stddev | .000108 | .015554 | .0045135 | .023326 | .000471 | .037764 |
| %RSD | 51.00861 | .3229611 | 57.10653 | .4320922 | 44.24065 | .7671158 |
| #1 | -.000172 | 4.803261 | .0027166 | 5.379514 | -.000526 | 4.952277 |
| #2 | -.000333 | 4.811789 | .0109362 | 5.391018 | -.001400 | 4.935916 |
| #3 | -.000129 | 4.833434 | .0100582 | 5.424419 | -.001266 | 4.880241 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F 5.811753 |
| Stddev | .103623 |
| %RSD | 1.782987 |
| #1 | 5.920689 |
| #2 | 5.714421 |
| #3 | 5.800150 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3325.136 | 70529.07 | 13423.03 | 2381.597 | 3871.476 |
| Stddev | 7.221 | 327.79 | 15.82 | 2.196 | 4.040 |
| %RSD | .2171694 | .4647642 | .1178380 | .0921933 | .1043572 |
| #1 | 3326.349 | 70187.88 | 13427.61 | 2383.466 | 3872.239 |
| #2 | 3331.673 | 70557.76 | 13436.06 | 2379.179 | 3875.080 |
| #3 | 3317.385 | 70841.59 | 13405.43 | 2382.145 | 3867.109 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICB005 Acquired: 1/29/2025 15:35:11 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008439** | **-.000321** | **.0007344** | **-.002516** | **-.000155** | **-.001415** | **.0000541** |
| Stddev | .0021898 | .000949 | .0011468 | .004210 | .000290 | .003860 | .0000561 |
| %RSD | 259.4984 | 295.3362 | 156.1652 | 167.3286 | 186.8017 | 272.8565 | 103.6724 |
| #1 | .0033594 | -.001214 | .0013350 | -.007281 | -.000319 | -.004886 | .0000638 |
| #2 | -.000636 | -.000425 | .0014562 | .000701 | .000180 | -.002100 | .0001048 |
| #3 | -.000192 | .000675 | -.000588 | -.000969 | -.000327 | .002742 | -.000006 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000047** | **.0000237** | **.0106732** | **.0000867** | **-.000103** | **.0001253** | **-.003270** |
| Stddev | .000011 | .0001170 | .0047677 | .0002905 | .000109 | .0024832 | .003818 |
| %RSD | 23.67226 | 494.0466 | 44.66952 | 335.2024 | 105.7496 | 1982.395 | 116.7501 |
| #1 | -.000034 | .0001487 | .0160818 | -.000242 | -.000228 | -.002585 | -.005274 |
| #2 | -.000054 | .0000053 | .0088584 | .000310 | -.000062 | .000668 | -.005670 |
| #3 | -.000052 | -.000083 | .0070795 | .000191 | -.000021 | .002292 | .001133 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000021** | **-.006895** | **.0001273** | **-.000167** | **-.144052** | **.0000414** | **.0005785** |
| Stddev | .000356 | .010181 | .0005169 | .000292 | .230842 | .0014554 | .0008267 |
| %RSD | 1714.575 | 147.6590 | 405.9518 | 174.3023 | 160.2497 | 3515.988 | 142.8943 |
| #1 | -.000429 | -.011799 | -.000418 | -.000476 | .035190 | -.000545 | -.000331 |
| #2 | .000231 | -.013695 | .000611 | -.000130 | -.404531 | -.001029 | .000783 |
| #3 | .000135 | .004810 | .000189 | .000104 | -.062814 | .001699 | .001284 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0525499** | **-.000401** | **.0030494** | **-.000082** | **.0054814** | **.0023781** | **-.000119** |
| Stddev | .0211642 | .001618 | .0001381 | .000321 | .0019289 | .0054834 | .000608 |
| %RSD | 40.27452 | 403.8744 | 4.528450 | 392.1341 | 35.18943 | 230.5779 | 512.1881 |
| #1 | .0761911 | -.001458 | .0031523 | -.000001 | .0054477 | -.003186 | .000047 |
| #2 | .0353680 | -.001207 | .0031033 | .000191 | .0074269 | .002544 | -.000792 |
| #3 | .0460906 | .001463 | .0028925 | -.000435 | .0035696 | .007777 | .000389 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICB005 Acquired: 1/29/2025 15:35:11 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB005 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0004056 | -.000064 | .0000905 |
| Stddev | .0011269 | .000188 | .0000491 |
| %RSD | 277.8177 | 293.0287 | 54.22499 |
| | | | |
| #1 | -.000670 | .000137 | .0001469 |
| #2 | .001578 | -.000236 | .0000579 |
| #3 | .000309 | -.000093 | .0000666 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3393.712 | 72569.04 | 13440.39 | 2418.402 | 4126.671 |
| Stddev | 7.678 | 293.71 | 110.96 | 16.819 | 6.816 |
| %RSD | .2262274 | .4047375 | .8255761 | .6954544 | .1651643 |
| | | | | | |
| #1 | 3402.459 | 72235.83 | 13364.41 | 2401.373 | 4128.472 |
| #2 | 3388.089 | 72790.39 | 13389.04 | 2418.831 | 4119.135 |
| #3 | 3390.587 | 72680.91 | 13567.73 | 2435.003 | 4132.405 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICSA005 Acquired: 1/29/2025 15:41:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0057793** | **.0031054** | **.0035286** | **.0240222** | **.0066356** | **224.9548** |
| Stddev | .0027539 | .0023666 | .0001792 | .0061843 | .0004721 | 3.1704 |
| %RSD | 47.65011 | 76.21014 | 5.079024 | 25.74399 | 7.114860 | 1.409346 |
| #1 | .0034595 | .0017694 | .0033464 | .0299022 | .0067706 | 228.2456 |
| #2 | .0088227 | .0058379 | .0037047 | .0175730 | .0061106 | 221.9203 |
| #3 | .0050557 | .0017089 | .0035346 | .0245914 | .0070254 | 224.6985 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0064678** | **-.000596** | **-.000158** | **238.0932** | **.0608726** | **.0010856** |
| Stddev | .0010750 | .000043 | .000043 | 1.9821 | .0002750 | .0002135 |
| %RSD | 16.62037 | 7.227137 | 27.43365 | .8324992 | .4518249 | 19.66436 |
| #1 | .0071888 | -.000601 | -.000156 | 238.8002 | .0607802 | .0010241 |
| #2 | .0069822 | -.000551 | -.000116 | 235.8545 | .0611819 | .0009096 |
| #3 | .0052322 | -.000636 | -.000203 | 239.6249 | .0606556 | .0013231 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.004185** | **98.33179** | **.0186281** | **232.7414** | **.0026951** | **-.002328** |
| Stddev | .002299 | .70391 | .0003500 | 1.6901 | .0002697 | .000147 |
| %RSD | 54.93401 | .7158497 | 1.878767 | .7261843 | 10.00791 | 6.310000 |
| #1 | -.006718 | 98.54928 | .0188776 | 233.1784 | .0027974 | -.002159 |
| #2 | -.002231 | 97.54480 | .0182280 | 230.8757 | .0028988 | -.002427 |
| #3 | -.003606 | 98.90129 | .0187786 | 234.1701 | .0023892 | -.002397 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.163871** | **-.004008** | **-.008741** | **-.075078** | **.0009837** | F **.1988006** |
| Stddev | .306160 | .003157 | .002605 | .034602 | .0013667 | .0045377 |
| %RSD | 186.8298 | 78.76847 | 29.80048 | 46.08866 | 138.9333 | 2.282531 |
| #1 | .094452 | -.001884 | -.005780 | -.113895 | .0025555 | .2001760 |
| #2 | -.502044 | -.002504 | -.010681 | -.047468 | .0003207 | .1937344 |
| #3 | -.084022 | -.007635 | -.009761 | -.063870 | .0000750 | .2024915 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICSA005 Acquired: 1/29/2025 15:41:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA005 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000526 | .0214723 | .0056031 | -.004040 | -.002501 | .0055373 |
| Stddev | .0006628 | .0019963 | .0030023 | .001631 | .000569 | .0001267 |
| %RSD | 1261.067 | 9.297170 | 53.58390 | 40.36887 | 22.74598 | 2.288362 |
| #1 | .0008146 | .0208924 | .0071832 | -.005146 | -.002144 | .0055050 |
| #2 | -.000390 | .0198301 | .0074853 | -.002167 | -.002202 | .0056770 |
| #3 | -.000267 | .0236943 | .0021406 | -.004806 | -.003157 | .0054298 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .1014649 |
| Stddev | .0010411 |
| %RSD | 1.026091 |
| #1 | .1019634 |
| #2 | .1002683 |
| #3 | .1021631 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2981.033 | 63412.18 | 13041.63 | 2108.384 | 3300.914 |
| Stddev | 1.969 | 161.98 | 55.73 | 4.605 | 1.900 |
| %RSD | .0660349 | .2554350 | .4273333 | .2184351 | .0575587 |
| #1 | 2979.978 | 63405.38 | 13092.11 | 2103.990 | 3302.091 |
| #2 | 2979.817 | 63577.45 | 12981.82 | 2107.987 | 3301.929 |
| #3 | 2983.304 | 63253.71 | 13050.94 | 2113.175 | 3298.722 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICSAB005 Acquired: 1/29/2025 15:45:28 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0961105** | **.0997608** | **.0534378** | **.0691383** | **.5769237** | **221.9573** |
| Stddev | .0022726 | .0008657 | .0019882 | .0028731 | .0034307 | 1.4036 |
| %RSD | 2.364599 | .8678192 | 3.720643 | 4.155518 | .5946521 | .6323901 |
| #1 | .0938583 | .1007538 | .0545979 | .0676908 | .5789263 | 223.5775 |
| #2 | .0960702 | .0993645 | .0545735 | .0724473 | .5729624 | 221.1106 |
| #3 | .0984031 | .0991642 | .0511420 | .0672770 | .5788825 | 221.1838 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4952464** | **.5064060** | **.9837477** | **233.8816** | **.5995154** | **.4987010** |
| Stddev | .0034023 | .0005514 | .0020330 | .8585 | .0004185 | .0008707 |
| %RSD | .6869919 | .1088958 | .2066597 | .3670596 | .0697983 | .1745897 |
| #1 | .4981722 | .5060239 | .9822796 | 234.8630 | .5992888 | .4987744 |
| #2 | .4915129 | .5061559 | .9828953 | 233.2698 | .5999982 | .4977960 |
| #3 | .4960540 | .5070382 | .9860681 | 233.5120 | .5992591 | .4995327 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4850098** | **96.74679** | **.5081471** | **228.2457** | **.9955795** | **.1992657** |
| Stddev | .0009009 | .32068 | .0030906 | .7513 | .0010581 | .0003182 |
| %RSD | .1857529 | .3314584 | .6082092 | .3291826 | .1062760 | .1596633 |
| #1 | .4843089 | 97.11487 | .5107776 | 228.9942 | .9952975 | .1995533 |
| #2 | .4860259 | 96.59765 | .5047433 | 228.2513 | .9967500 | .1989239 |
| #3 | .4846945 | 96.52784 | .5089206 | 227.4915 | .9946911 | .1993198 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.130691** | **.4848134** | **.9584420** | **-.275210** | **.0060727** | F **.1807588** |
| Stddev | .171914 | .0022309 | .0047669 | .053868 | .0024190 | .0010988 |
| %RSD | 131.5423 | .4601478 | .4973539 | 19.57339 | 39.83416 | .6078650 |
| #1 | -.308529 | .4860035 | .9557177 | -.217855 | .0080725 | .1819961 |
| #2 | .034613 | .4822399 | .9556620 | -.283042 | .0067618 | .1798969 |
| #3 | -.118157 | .4861970 | .9639462 | -.324733 | .0033840 | .1803835 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: ICSAB005 Acquired: 1/29/2025 15:45:28 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB005 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000099 | .0248077 | -.000068 | -.003963 | -.004674 | .0042103 |
| Stddev | .000627 | .0037848 | .006270 | .000501 | .000673 | .0008301 |
| %RSD | 630.7351 | 15.25666 | 9259.927 | 12.64200 | 14.38889 | 19.71552 |
| #1 | .000071 | .0290348 | .007042 | -.004401 | -.004782 | .0032518 |
| #2 | .000425 | .0217331 | -.002436 | -.004072 | -.005286 | .0046959 |
| #3 | -.000793 | .0236552 | -.004808 | -.003417 | -.003954 | .0046831 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0989680 |
| Stddev | .0009041 |
| %RSD | .9135033 |
| #1 | .0994054 |
| #2 | .0979284 |
| #3 | .0995702 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3060.931 | 63560.55 | 12878.77 | 2126.991 | 3399.128 |
| Stddev | 4.259 | 175.46 | 10.38 | 6.364 | .790 |
| %RSD | .1391425 | .2760515 | .0806227 | .2991949 | .0232280 |
| #1 | 3056.719 | 63358.31 | 12866.85 | 2122.762 | 3399.403 |
| #2 | 3060.839 | 63651.19 | 12883.57 | 2123.901 | 3398.237 |
| #3 | 3065.236 | 63672.16 | 12885.88 | 2134.310 | 3399.742 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCV028 Acquired: 1/29/2025 15:49:33 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV028 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.106231** | **4.965000** | **25.16854** | **5.143835** | **5.199633** | **405.4101** |
| Stddev | .010631 | .018986 | .03707 | .012946 | .009543 | 2.4661 |
| %RSD | .2082056 | .3823904 | .1472779 | .2516889 | .1835362 | .6082890 |
| #1 | 5.100450 | 4.958127 | 25.14548 | 5.136843 | 5.189592 | 407.8203 |
| #2 | 5.099742 | 4.950407 | 25.14884 | 5.135889 | 5.200722 | 405.5181 |
| #3 | 5.118500 | 4.986465 | 25.21130 | 5.158775 | 5.208585 | 402.8918 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.96322** | **.5162241** | **2.555079** | **413.1468** | **15.97342** | **2.560251** |
| Stddev | .04592 | .0037606 | .002704 | 2.9092 | .01044 | .001207 |
| %RSD | .4188510 | .7284796 | .1058365 | .7041452 | .0653500 | .0471285 |
| #1 | 10.91069 | .5205648 | 2.552817 | 410.3555 | 15.96209 | 2.559181 |
| #2 | 10.98318 | .5139480 | 2.554345 | 416.1610 | 15.98265 | 2.560014 |
| #3 | 10.99578 | .5141596 | 2.558074 | 412.9240 | 15.97552 | 2.561559 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.81434** | **408.8166** | **15.97336** | **409.4044** | **2.552075** | **1.334014** |
| Stddev | .06592 | 2.0364 | .07254 | 1.5681 | .004292 | .002457 |
| %RSD | .4168624 | .4981311 | .4541116 | .3830212 | .1681779 | .1842081 |
| #1 | 15.78600 | 406.4705 | 15.89142 | 407.5968 | 2.548284 | 1.335790 |
| #2 | 15.76732 | 410.1271 | 15.99928 | 410.3993 | 2.551207 | 1.335043 |
| #3 | 15.88969 | 409.8522 | 16.02937 | 410.2171 | 2.556735 | 1.331210 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **413.6875** | **2.580286** | **16.04027** | **163.7206** | **5.142794** | F **5.572764** |
| Stddev | 1.7070 | .004600 | .04001 | 1.0645 | .029720 | .024418 |
| %RSD | .4126215 | .1782628 | .2494656 | .6501640 | .5778934 | .4381713 |
| #1 | 413.5458 | 2.584060 | 16.01520 | 162.4936 | 5.118302 | 5.600787 |
| #2 | 412.0559 | 2.575163 | 16.01920 | 164.2728 | 5.134222 | 5.561452 |
| #3 | 415.4609 | 2.581635 | 16.08642 | 164.3956 | 5.175858 | 5.556054 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCV028 Acquired: 1/29/2025 15:49:33 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV028 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.079681 | 5.189158 | F 6.514212 | 5.093894 | 5.200003 | 5.453585 |
| Stddev | .011658 | .004821 | .031187 | .011251 | .010499 | .049589 |
| %RSD | .2294998 | .0929026 | .4787575 | .2208815 | .2019104 | .9092995 |
| #1 | 5.069662 | 5.185065 | 6.539903 | 5.089401 | 5.189865 | 5.397660 |
| #2 | 5.076905 | 5.187936 | 6.479512 | 5.085583 | 5.199314 | 5.470897 |
| #3 | 5.092476 | 5.194472 | 6.523220 | 5.106698 | 5.210830 | 5.492198 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F 5.626155 |
| Stddev | .053139 |
| %RSD | .9445042 |
| #1 | 5.620416 |
| #2 | 5.681931 |
| #3 | 5.576118 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2765.010 | 59820.67 | 12488.23 | 1964.820 | 2975.489 |
| Stddev | 10.066 | 116.39 | 76.25 | 2.988 | 7.762 |
| %RSD | .3640601 | .1945701 | .6105773 | .1520658 | .2608737 |
| #1 | 2776.293 | 59878.95 | 12402.70 | 1961.371 | 2984.088 |
| #2 | 2761.786 | 59686.65 | 12512.92 | 1966.447 | 2973.378 |
| #3 | 2756.950 | 59896.40 | 12549.08 | 1966.641 | 2969.000 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCB028 Acquired: 1/29/2025 15:53:51 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB028 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0021815 | .0018599 | .0007598 | .0014983 | -.000514 | .0093605 | .0005395 |
| Stddev | .0015411 | .0014459 | .0012506 | .0020784 | .002103 | .0044132 | .0001797 |
| %RSD | 70.64563 | 77.73949 | 164.5853 | 138.7185 | 408.9715 | 47.14682 | 33.30148 |
| #1 | .0008758 | .0034347 | .0022035 | .0036248 | -.000164 | .0045335 | .0004947 |
| #2 | .0017872 | .0015528 | .0000632 | .0013983 | .001392 | .0131887 | .0003865 |
| #3 | .0038815 | .0005923 | .0000127 | -.000528 | -.002770 | .0103594 | .0007373 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000049 | .0000394 | .0122853 | .0001827 | .0000156 | -.001537 | .0076877 |
| Stddev | .000054 | .0000379 | .0068434 | .0002331 | .0002706 | .000535 | .0034188 |
| %RSD | 110.6052 | 95.96721 | 55.70414 | 127.5489 | 1737.221 | 34.78844 | 44.47054 |
| #1 | -.000015 | .0000483 | .0056074 | .0002769 | -.000166 | -.001048 | .0092253 |
| #2 | -.000111 | -.000002 | .0192831 | -.000083 | -.000114 | -.002108 | .0037701 |
| #3 | -.000021 | .000072 | .0119655 | .000354 | .000327 | -.001455 | .0100677 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001270 | .0188466 | -.000175 | .0000214 | .0299063 | .0011106 | .0000325 |
| Stddev | .0002549 | .0078177 | .000296 | .0001196 | .2377015 | .0006864 | .0006413 |
| %RSD | 200.6651 | 41.48047 | 169.2967 | 559.3378 | 794.8215 | 61.80556 | 1971.023 |
| #1 | -.000148 | .0208362 | -.000278 | .0001489 | -.197814 | .0016400 | -.000373 |
| #2 | .000173 | .0254773 | -.000406 | .0000035 | .276467 | .0003351 | -.000301 |
| #3 | .000356 | .0102264 | .000159 | -.000088 | .011066 | .0013568 | .000772 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0942873 | -.001280 | .0054925 | .0000876 | .0059609 | .0014401 | -.000191 |
| Stddev | .0278586 | .000792 | .0003645 | .0001493 | .0037390 | .0038794 | .000380 |
| %RSD | 29.54654 | 61.85363 | 6.636351 | 170.4256 | 62.72598 | 269.3851 | 198.8116 |
| #1 | .1020913 | -.002075 | .0053288 | .0002389 | .0039164 | .0059191 | .000015 |
| #2 | .1174116 | -.001273 | .0052384 | .0000836 | .0036899 | -.000741 | -.000629 |
| #3 | .0633589 | -.000492 | .0059101 | -.000060 | .0102763 | -.000858 | .000041 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCB028 Acquired: 1/29/2025 15:53:51 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB028 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0008864 | .0007086 | .0000882 |
| Stddev | .0003290 | .0009410 | .0000880 |
| %RSD | 37.11425 | 132.8057 | 99.76392 |
| | | | |
| #1 | .0011328 | .0001854 | -.000013 |
| #2 | .0005128 | .0017950 | .000129 |
| #3 | .0010134 | .0001454 | .000149 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3378.218 | 72622.83 | 13529.11 | 2431.064 | 4091.355 |
| Stddev | 6.574 | 274.68 | 88.17 | 5.183 | 2.454 |
| %RSD | .1946130 | .3782274 | .6516734 | .2131896 | .0599864 |
| | | | | | |
| #1 | 3373.962 | 72703.06 | 13585.01 | 2436.862 | 4089.090 |
| #2 | 3385.790 | 72848.46 | 13427.48 | 2429.451 | 4093.963 |
| #3 | 3374.902 | 72316.97 | 13574.86 | 2426.880 | 4091.012 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-02 Acquired: 1/29/2025 15:58:00 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0153133** | **.0029970** | **.0050894** | **-.004850** | **-.002604** | **31.07541** |
| Stddev | .0008638 | .0017222 | .0012616 | .000060 | .000248 | .10745 |
| %RSD | 5.640586 | 57.46476 | 24.78902 | 1.230892 | 9.521662 | .3457558 |
| #1 | .0161779 | .0010444 | .0051716 | -.004783 | -.002715 | 31.08915 |
| #2 | .0153117 | .0042999 | .0063079 | -.004869 | -.002778 | 30.96175 |
| #3 | .0144504 | .0036466 | .0037887 | -.004898 | -.002320 | 31.17532 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0376117** | **.0025540** | **.0015093** | **51.17705** | **.0297309** | **.1126255** |
| Stddev | .0005110 | .0000205 | .0001048 | .07150 | .0000738 | .0003275 |
| %RSD | 1.358590 | .8022116 | 6.946504 | .1397019 | .2481043 | .2907949 |
| #1 | .0381876 | .0025642 | .0016170 | 51.23373 | .0296666 | .1129624 |
| #2 | .0374347 | .0025304 | .0014075 | 51.09673 | .0297146 | .1123083 |
| #3 | .0372127 | .0025674 | .0015034 | 51.20069 | .0298114 | .1126057 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1197466** | **11.58207** | **2.282116** | **23.18116** | **.1059449** | **-.002937** |
| Stddev | .0007050 | .02877 | .005575 | .04572 | .0003199 | .000158 |
| %RSD | .5887161 | .2484325 | .2442992 | .1972140 | .3019291 | 5.393663 |
| #1 | .1193918 | 11.57855 | 2.287318 | 23.20380 | .1055756 | -.002796 |
| #2 | .1192895 | 11.55522 | 2.276231 | 23.12854 | .1061287 | -.002907 |
| #3 | .1205585 | 11.61244 | 2.282800 | 23.21113 | .1061305 | -.003108 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.760222** | **.0243054** | **.5084607** | **12.91822** | **.6329755** | **.2887731** |
| Stddev | .152769 | .0003075 | .0030588 | .03776 | .0045437 | .0010080 |
| %RSD | 5.534660 | 1.265106 | .6015760 | .2922817 | .7178296 | .3490448 |
| #1 | 2.715903 | .0239516 | .5089764 | 12.93361 | .6381013 | .2886267 |
| #2 | 2.930250 | .0245082 | .5051768 | 12.87520 | .6294430 | .2898463 |
| #3 | 2.634512 | .0244564 | .5112288 | 12.94586 | .6313823 | .2878465 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-02 Acquired: 1/29/2025 15:58:00 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000959 | F 327.8339 | F 21.18949 | -.002491 | .0109164 | .0249730 |
| Stddev | .0001848 | .2513 | .03463 | .000242 | .0001648 | .0003093 |
| %RSD | 192.7179 | .0766552 | .1634198 | 9.713579 | 1.509276 | 1.238672 |
| #1 | .0001423 | 328.0892 | 21.22934 | -.002574 | .0110841 | .0249078 |
| #2 | .0002531 | 327.5868 | 21.17240 | -.002680 | .0107548 | .0253097 |
| #3 | -.000108 | 327.8259 | 21.16673 | -.002218 | .0109101 | .0247014 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2956309 |
| Stddev | .0011462 |
| %RSD | .3877199 |
| #1 | .2968437 |
| #2 | .2945655 |
| #3 | .2954835 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7298.725 | 157105.9 | 30320.25 | 5243.303 | 3738.736 |
| Stddev | 21.600 | 483.2 | 68.46 | 24.317 | 9.181 |
| %RSD | .2959405 | .3075347 | .2257933 | .4637800 | .2455701 |
| #1 | 7318.782 | 157255.4 | 30387.55 | 5264.027 | 3745.154 |
| #2 | 7301.535 | 157496.7 | 30322.50 | 5249.350 | 3742.834 |
| #3 | 7275.857 | 156565.7 | 30250.69 | 5216.533 | 3728.219 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-03 Acquired: 1/29/2025 16:01:59 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0149272** | **.0032718** | **.0070963** | **-.003786** | **-.002895** | **31.30768** |
| Stddev | .0009618 | .0015072 | .0019157 | .000605 | .000462 | .14055 |
| %RSD | 6.443632 | 46.06613 | 26.99612 | 15.98667 | 15.95944 | .4489219 |
| #1 | .0144294 | .0015348 | .0067492 | -.003798 | -.003168 | 31.17539 |
| #2 | .0160359 | .0042336 | .0091618 | -.003175 | -.003156 | 31.29242 |
| #3 | .0143162 | .0040469 | .0053778 | -.004386 | -.002362 | 31.45524 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0364753** | **.0025335** | **.0015179** | **50.81248** | **.0295408** | **.1117600** |
| Stddev | .0010216 | .0000216 | .0000825 | .08176 | .0001014 | .0003118 |
| %RSD | 2.800825 | .8520933 | 5.434208 | .1609079 | .3434048 | .2790062 |
| #1 | .0355097 | .0025573 | .0014910 | 50.74527 | .0296577 | .1117868 |
| #2 | .0363713 | .0025152 | .0016105 | 50.78866 | .0294883 | .1114357 |
| #3 | .0375449 | .0025280 | .0014522 | 50.90350 | .0294764 | .1120576 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1189654** | **11.59444** | **2.251447** | **22.90463** | **.1052959** | **-.002762** |
| Stddev | .0015697 | .04338 | .004841 | .03677 | .0005193 | .000085 |
| %RSD | 1.319434 | .3741176 | .2150268 | .1605567 | .4931894 | 3.074794 |
| #1 | .1174930 | 11.56680 | 2.246257 | 22.93887 | .1050470 | -.002751 |
| #2 | .1187863 | 11.57209 | 2.252243 | 22.86576 | .1049478 | -.002852 |
| #3 | .1206169 | 11.64444 | 2.255841 | 22.90928 | .1058928 | -.002683 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.848472** | **.0242785** | **.5118017** | **13.08315** | **.6237633** | **.2879888** |
| Stddev | .074559 | .0015884 | .0025901 | .06596 | .0030243 | .0011064 |
| %RSD | 2.617510 | 6.542573 | .5060828 | .5041934 | .4848414 | .3841724 |
| #1 | 2.815819 | .0252612 | .5121112 | 13.02814 | .6271609 | .2889830 |
| #2 | 2.795809 | .0224460 | .5090707 | 13.06504 | .6213655 | .2881864 |
| #3 | 2.933786 | .0251285 | .5142232 | 13.15628 | .6227636 | .2867969 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-03 Acquired: 1/29/2025 16:01:59 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0003053 | F 326.7778 | F 20.83910 | -.002469 | .0109334 | .0251447 |
| Stddev | .0000675 | .6466 | .07977 | .001901 | .0001683 | .0003497 |
| %RSD | 22.11984 | .1978731 | .3827689 | 77.00483 | 1.539126 | 1.390761 |
| #1 | .0002705 | 326.4483 | 20.91744 | -.000331 | .0110220 | .0249111 |
| #2 | .0002623 | 326.3624 | 20.84188 | -.003106 | .0110389 | .0255468 |
| #3 | .0003832 | 327.5228 | 20.75798 | -.003970 | .0107393 | .0249762 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2952264 |
| Stddev | .0015225 |
| %RSD | .5156879 |
| #1 | .2936512 |
| #2 | .2953380 |
| #3 | .2966899 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7197.481 | 156152.3 | 30316.68 | 5122.422 | 3715.663 |
| Stddev | 36.309 | 325.9 | 159.93 | 13.121 | 22.096 |
| %RSD | .5044623 | .2086812 | .5275394 | .2561576 | .5946698 |
| #1 | 7234.744 | 156399.5 | 30221.48 | 5134.005 | 3738.077 |
| #2 | 7195.489 | 155783.0 | 30227.24 | 5108.172 | 3715.013 |
| #3 | 7162.209 | 156274.2 | 30501.32 | 5125.091 | 3693.899 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-02LX5 Acquired: 1/29/2025 16:05:57 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0061721** | **.0013295** | **.0038430** | **-.002684** | **-.000690** | **11.10259** |
| Stddev | .0006695 | .0003954 | .0014811 | .001827 | .000437 | .04356 |
| %RSD | 10.84813 | 29.74264 | 38.53986 | 68.04523 | 63.39449 | .3922986 |
| #1 | .0069044 | .0016513 | .0034357 | -.000766 | -.001058 | 11.09307 |
| #2 | .0055912 | .0008881 | .0026082 | -.004403 | -.000206 | 11.06459 |
| #3 | .0060206 | .0014491 | .0054852 | -.002884 | -.000806 | 11.15012 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0119751** | **.0009296** | **.0004155** | **18.25253** | **.0116935** | **.0227015** |
| Stddev | .0007946 | .0000064 | .0000623 | .04910 | .0002355 | .0001950 |
| %RSD | 6.635218 | .6913535 | 15.00337 | .2690193 | 2.013568 | .8587945 |
| #1 | .0117074 | .0009339 | .0003974 | 18.22891 | .0115317 | .0228370 |
| #2 | .0128689 | .0009328 | .0003642 | 18.21970 | .0119636 | .0227895 |
| #3 | .0113490 | .0009223 | .0004849 | 18.30898 | .0115852 | .0224781 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0446559** | **4.242455** | **.8238035** | **8.166453** | **.0215420** | **-.000996** |
| Stddev | .0018919 | .019698 | .0048790 | .020418 | .0000995 | .000128 |
| %RSD | 4.236591 | .4643127 | .5922527 | .2500280 | .4617918 | 12.89933 |
| #1 | .0466005 | 4.230366 | .8213893 | 8.148675 | .0214383 | -.000948 |
| #2 | .0445456 | 4.231815 | .8206023 | 8.161932 | .0215512 | -.000898 |
| #3 | .0428215 | 4.265185 | .8294189 | 8.188754 | .0216366 | -.001141 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.046580** | **.0091656** | **.1801557** | **4.475365** | **.1364607** | **.1090021** |
| Stddev | .155505 | .0009035 | .0021409 | .002441 | .0009777 | .0005437 |
| %RSD | 14.85844 | 9.857839 | 1.188335 | .0545429 | .7164661 | .4987660 |
| #1 | .883211 | .0084397 | .1776895 | 4.475961 | .1367621 | .1096289 |
| #2 | 1.063728 | .0088796 | .1815352 | 4.472681 | .1353678 | .1087179 |
| #3 | 1.192800 | .0101775 | .1812425 | 4.477453 | .1372523 | .1086594 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-02LX5 Acquired: 1/29/2025 16:05:57 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7L Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0004150 | F 65.46945 | 7.650868 | -.001098 | .0045245 | .0091357 |
| Stddev | .0002212 | .19812 | .009348 | .000158 | .0006532 | .0002352 |
| %RSD | 53.30526 | .3026197 | .1221822 | 14.37452 | 14.43676 | 2.574038 |
| #1 | .0006705 | 65.57182 | 7.650619 | -.001048 | .0046697 | .0091668 |
| #2 | .0002888 | 65.24108 | 7.660338 | -.000971 | .0050929 | .0088865 |
| #3 | .0002858 | 65.59544 | 7.641647 | -.001274 | .0038109 | .0093537 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1053583 |
| Stddev | .0004823 |
| %RSD | .4577392 |
| #1 | .1051716 |
| #2 | .1049972 |
| #3 | .1059060 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4192.431 | 89840.93 | 16965.68 | 2967.726 | 3995.087 |
| Stddev | 3.990 | 186.88 | 118.67 | 6.688 | 7.268 |
| %RSD | .0951708 | .2080155 | .6994732 | .2253432 | .1819133 |
| #1 | 4190.027 | 89852.77 | 16930.43 | 2975.425 | 3986.966 |
| #2 | 4197.037 | 89648.41 | 16868.64 | 2963.364 | 4000.979 |
| #3 | 4190.229 | 90021.62 | 17097.99 | 2964.388 | 3997.315 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-04 Acquired: 1/29/2025 16:09:59 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0503951 | .0788905 | .0528370 | .0878469 | .0852065 | 33.69555 |
| Stddev | .0020990 | .0033333 | .0005532 | .0015460 | .0012385 | .13352 |
| %RSD | 4.165072 | 4.225251 | 1.046969 | 1.759871 | 1.453570 | .3962497 |
| #1 | .0509426 | .0754483 | .0522556 | .0892855 | .0841948 | 33.54860 |
| #2 | .0521662 | .0791202 | .0533568 | .0862122 | .0848369 | 33.72861 |
| #3 | .0480766 | .0821031 | .0528987 | .0880429 | .0865877 | 33.80943 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.786568 | .0478759 | .1012649 | 52.60154 | .2222327 | 1.081557 |
| Stddev | .013017 | .0001202 | .0007390 | .18485 | .0006263 | .005445 |
| %RSD | .7285971 | .2510283 | .7297388 | .3514224 | .2818266 | .5034723 |
| #1 | 1.771738 | .0479500 | .1008581 | 52.39379 | .2215115 | 1.078779 |
| #2 | 1.796104 | .0479404 | .1008187 | 52.66296 | .2226400 | 1.078061 |
| #3 | 1.791860 | .0477372 | .1021179 | 52.74786 | .2225466 | 1.087832 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3451935 | 12.81183 | 2.794195 | 23.79175 | 1.085772 | .0319151 |
| Stddev | .0029502 | .03023 | .012826 | .05095 | .004212 | .0001450 |
| %RSD | .8546506 | .2359310 | .4590310 | .2141391 | .3879615 | .4543657 |
| #1 | .3431578 | 12.77943 | 2.779614 | 23.73412 | 1.082909 | .0317798 |
| #2 | .3438458 | 12.81680 | 2.799237 | 23.81034 | 1.083799 | .0320682 |
| #3 | .3485768 | 12.83927 | 2.803735 | 23.83080 | 1.090609 | .0318971 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.856198 | .4676936 | .9527194 | 13.34606 | .6743956 | .2857381 |
| Stddev | .022757 | .0006586 | .0089259 | .06035 | .0052642 | .0006667 |
| %RSD | .7967443 | .1408244 | .9368852 | .4522016 | .7805743 | .2333327 |
| #1 | 2.879033 | .4680049 | .9426588 | 13.29855 | .6731765 | .2862509 |
| #2 | 2.856041 | .4681388 | .9596885 | 13.41396 | .6698479 | .2859790 |
| #3 | 2.833521 | .4669370 | .9558109 | 13.32566 | .6801623 | .2849844 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1136-04 Acquired: 1/29/2025 16:09:59 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8F7S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0006431 | F 314.0590 | F 21.18055 | -.000418 | .0104394 | .0268924 |
| Stddev | .0001279 | 1.1677 | .03381 | .001539 | .0000316 | .0003294 |
| %RSD | 19.88574 | .3718147 | .1596080 | 368.4065 | .3030824 | 1.224809 |
| #1 | .0006101 | 313.4582 | 21.16184 | -.000520 | .0104257 | .0265673 |
| #2 | .0005349 | 313.3140 | 21.21957 | .001170 | .0104168 | .0272259 |
| #3 | .0007842 | 315.4048 | 21.16023 | -.001903 | .0104755 | .0268841 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3089301 |
| Stddev | .0018101 |
| %RSD | .5859130 |
| #1 | .3068559 |
| #2 | .3101898 |
| #3 | .3097446 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7354.686 | 155649.6 | 30987.77 | 5177.977 | 3815.781 |
| Stddev | 27.974 | 588.6 | 31.97 | 27.038 | 21.359 |
| %RSD | .3803505 | .3781564 | .1031750 | .5221789 | .5597462 |
| #1 | 7386.862 | 156274.3 | 30987.09 | 5208.907 | 3836.598 |
| #2 | 7341.058 | 155569.1 | 31020.08 | 5166.200 | 3816.826 |
| #3 | 7336.138 | 155105.3 | 30956.15 | 5158.825 | 3793.919 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-01DLX20 Acquired: 1/29/2025 16:13:53 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0317233** | **.0187045** | **.1073728** | **.0132739** | **.0490555** | **.7271002** |
| Stddev | .0005279 | .0003207 | .0009819 | .0021647 | .0026300 | .0081165 |
| %RSD | 1.664013 | 1.714738 | .9144672 | 16.30763 | 5.361205 | 1.116286 |
| #1 | .0320988 | .0187048 | .1074132 | .0142570 | .0470749 | .7185702 |
| #2 | .0319514 | .0190251 | .1063713 | .0107921 | .0480520 | .7347279 |
| #3 | .0311198 | .0183837 | .1083338 | .0147725 | .0520394 | .7280024 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0160429** | **.0008033** | **.0003438** | **4.292522** | **25.61671** | F **6.133567** |
| Stddev | .0001850 | .0000815 | .0000623 | .018369 | .08224 | .023482 |
| %RSD | 1.153119 | 10.14729 | 18.12453 | .4279361 | .3210401 | .3828408 |
| #1 | .0160358 | .0007656 | .0002829 | 4.273792 | 25.65887 | 6.124181 |
| #2 | .0158616 | .0007475 | .0003410 | 4.310508 | 25.52194 | 6.116230 |
| #3 | .0162314 | .0008969 | .0004074 | 4.293265 | 25.66932 | 6.160290 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1667054** | **6.800204** | **.1110795** | **.6277432** | F **5.186416** | **.0003535** |
| Stddev | .0017333 | .047832 | .0008056 | .0130387 | .017616 | .0002216 |
| %RSD | 1.039722 | .7033941 | .7252033 | 2.077078 | .3396648 | 62.69897 |
| #1 | .1653690 | 6.765114 | .1103948 | .6211309 | 5.179465 | .0006082 |
| #2 | .1686638 | 6.854687 | .1108766 | .6427633 | 5.173336 | .0002481 |
| #3 | .1660833 | 6.780810 | .1119671 | .6193354 | 5.206448 | .0002043 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.941499** | **.1137196** | **.1873524** | **.0050285** | **.1364766** | **.0502275** |
| Stddev | .205327 | .0016990 | .0033557 | .0372403 | .0011344 | .0007821 |
| %RSD | 10.57572 | 1.494004 | 1.791090 | 740.5798 | .8312144 | 1.557149 |
| #1 | 1.897932 | .1138181 | .1849497 | .0337766 | .1351923 | .0510228 |
| #2 | 2.165113 | .1119735 | .1911864 | -.037040 | .1368956 | .0494593 |
| #3 | 1.761451 | .1153672 | .1859212 | .018349 | .1373419 | .0502005 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-01DLX20 Acquired: 1/29/2025 16:13:53 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.177277** | **8.135086** | **.4162888** | **.0161244** | **.0198408** | **-.000002** |
| Stddev | .012342 | .024440 | .0050137 | .0001724 | .0004357 | .000137 |
| %RSD | .3884370 | .3004303 | 1.204378 | 1.069250 | 2.196207 | 6809.203 |
| #1 | 3.172255 | 8.128730 | .4154840 | .0162942 | .0193721 | .000156 |
| #2 | 3.168238 | 8.114452 | .4117262 | .0159495 | .0202335 | -.000090 |
| #3 | 3.191338 | 8.162077 | .4216563 | .0161295 | .0199169 | -.000073 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.0408825** |
| Stddev | .0001139 |
| %RSD | .2786286 |
| #1 | .0407904 |
| #2 | .0410099 |
| #3 | .0408472 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3339.428** | **71791.36** | **13491.01** | **2379.898** | **4156.673** |
| Stddev | 8.951 | 72.42 | 72.00 | 11.548 | 11.110 |
| %RSD | .2680448 | .1008758 | .5336683 | .4852203 | .2672833 |
| #1 | 3331.002 | 71742.53 | 13421.37 | 2383.876 | 4147.402 |
| #2 | 3348.825 | 71756.99 | 13565.15 | 2366.887 | 4168.988 |
| #3 | 3338.456 | 71874.57 | 13486.51 | 2388.930 | 4153.629 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-02DLX5 Acquired: 1/29/2025 16:18:01 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0224758** | **-.000810** | **.5971860** | **.0115847** | **.0081355** | **9.462948** |
| Stddev | .0024467 | .001575 | .0020974 | .0021431 | .0021699 | .030229 |
| %RSD | 10.88596 | 194.4647 | .3512099 | 18.49981 | 26.67218 | .3194482 |
| #1 | .0197104 | .000129 | .5980643 | .0115201 | .0101001 | 9.466875 |
| #2 | .0233577 | -.002628 | .5947922 | .0094746 | .0058064 | 9.491022 |
| #3 | .0243593 | .000070 | .5987014 | .0137595 | .0084998 | 9.430948 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0661240** | **.0009110** | **.0011463** | **7.093154** | **5.905280** | **2.425917** |
| Stddev | .0006479 | .0000286 | .0000241 | .020439 | .004827 | .003968 |
| %RSD | .9798166 | 3.135135 | 2.103216 | .2881494 | .0817374 | .1635766 |
| #1 | .0653866 | .0009216 | .0011708 | 7.070211 | 5.901729 | 2.425022 |
| #2 | .0666019 | .0008787 | .0011453 | 7.109416 | 5.903336 | 2.422473 |
| #3 | .0663835 | .0009327 | .0011227 | 7.099837 | 5.910776 | 2.430256 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2892964** | **26.62786** | **.2033433** | **4.166160** | **2.371819** | **-.000252** |
| Stddev | .0006401 | .08223 | .0009601 | .014595 | .003918 | .000181 |
| %RSD | .2212603 | .3088037 | .4721664 | .3503179 | .1651734 | 71.78642 |
| #1 | .2885799 | 26.59233 | .2022484 | 4.159261 | 2.372627 | -.000191 |
| #2 | .2898116 | 26.72187 | .2040418 | 4.156294 | 2.367561 | -.000456 |
| #3 | .2894978 | 26.56936 | .2037396 | 4.182926 | 2.375270 | -.000110 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.196632** | **.0610559** | **.4401800** | **2.097294** | **2.377979** | **.0898778** |
| Stddev | .240318 | .0015574 | .0010872 | .012758 | .007362 | .0009760 |
| %RSD | 3.339312 | 2.550789 | .2469952 | .6082864 | .3095696 | 1.085962 |
| #1 | 7.273524 | .0624930 | .4394549 | 2.097933 | 2.375897 | .0904604 |
| #2 | 7.389094 | .0612736 | .4396549 | 2.109719 | 2.371883 | .0904219 |
| #3 | 6.927278 | .0594011 | .4414301 | 2.084228 | 2.386158 | .0887509 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-02DLX5 Acquired: 1/29/2025 16:18:01 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3606916 | F 21.85227 | 2.844516 | .0176235 | .2410962 | .0168747 |
| Stddev | .0008366 | .05251 | .011298 | .0005364 | .0011921 | .0005481 |
| %RSD | .2319455 | .2402844 | .3971755 | 3.043693 | .4944378 | 3.247767 |
| #1 | .3615035 | 21.84000 | 2.835545 | .0171122 | .2411807 | .0168306 |
| #2 | .3607390 | 21.80698 | 2.840799 | .0175764 | .2398642 | .0163501 |
| #3 | .3598323 | 21.90982 | 2.857204 | .0181819 | .2422438 | .0174435 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1014745 |
| Stddev | .0005048 |
| %RSD | .4974959 |
| #1 | .1012602 |
| #2 | .1020511 |
| #3 | .1011122 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3349.137 | 71796.13 | 14046.30 | 2373.854 | 3944.941 |
| Stddev | 6.522 | 272.26 | 102.58 | 14.119 | 6.412 |
| %RSD | .1947416 | .3792176 | .7302711 | .5947864 | .1625474 |
| #1 | 3341.699 | 71524.57 | 13976.93 | 2362.578 | 3945.068 |
| #2 | 3351.833 | 72069.09 | 14164.13 | 2389.690 | 3951.290 |
| #3 | 3353.879 | 71794.74 | 13997.84 | 2369.294 | 3938.467 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-01 Acquired: 1/29/2025 16:21:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1345382 | -.010367 | .1231950 | .0403097 | .0098205 | 73.13456 | 1.798778 |
| Stddev | .0013687 | .000558 | .0013984 | .0029662 | .0008761 | .50057 | .010019 |
| %RSD | 1.017311 | 5.377754 | 1.135068 | 7.358495 | 8.921597 | .6844480 | .5570061 |
| #1 | .1360255 | -.010070 | .1236131 | .0370828 | .0107771 | 73.66754 | 1.805782 |
| #2 | .1342573 | -.010021 | .1243365 | .0409287 | .0090571 | 73.06177 | 1.803251 |
| #3 | .1333317 | -.011010 | .1216352 | .0429175 | .0096272 | 72.67437 | 1.787302 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0026583 | .0017184 | 22.27083 | .1952257 | .1653853 | .2239371 | 173.2333 |
| Stddev | .0000451 | .0000459 | .19102 | .0024537 | .0015786 | .0015289 | 1.3082 |
| %RSD | 1.697215 | 2.671079 | .8576924 | 1.256853 | .9545085 | .6827404 | .7551608 |
| #1 | .0026840 | .0016717 | 22.48630 | .1980584 | .1671895 | .2256148 | 174.7433 |
| #2 | .0026846 | .0017634 | 22.20389 | .1938607 | .1647078 | .2226223 | 172.4440 |
| #3 | .0026062 | .0017201 | 22.12229 | .1937580 | .1642585 | .2235742 | 172.5125 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.440970 | 38.65893 | .3214922 | -.000022 | .2511353 | .1862940 | .4268455 |
| Stddev | .063989 | .38102 | .0024806 | .000099 | .2107686 | .0007294 | .0040460 |
| %RSD | .7580805 | .9855839 | .7715939 | 438.7883 | 83.92630 | .3915492 | .9478836 |
| #1 | 8.510926 | 39.08995 | .3239007 | .000090 | .2005117 | .1856736 | .4299225 |
| #2 | 8.426590 | 38.36702 | .3216308 | -.000092 | .0702886 | .1870976 | .4283516 |
| #3 | 8.385394 | 38.51982 | .3189453 | -.000066 | .4826056 | .1861110 | .4222625 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.036655 | 1.779237 | .3342442 | .0079744 | .1837722 | 1.662993 | .0010931 |
| Stddev | .019587 | .015803 | .0041147 | .0003961 | .0030388 | .010012 | .0009043 |
| %RSD | 1.889447 | .8881622 | 1.231036 | 4.967571 | 1.653568 | .6020750 | 82.73204 |
| #1 | 1.059092 | 1.794920 | .3386280 | .0079648 | .1872687 | 1.657749 | .0000709 |
| #2 | 1.027902 | 1.779471 | .3304657 | .0083753 | .1822798 | 1.656692 | .0014195 |
| #3 | 1.022970 | 1.763318 | .3336388 | .0075832 | .1817682 | 1.674539 | .0017889 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-01 Acquired: 1/29/2025 16:21:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6816669 | .0711779 | .2264513 |
| Stddev | .0018240 | .0009501 | .0015161 |
| %RSD | .2675822 | 1.334788 | .6695165 |
| #1 | .6795918 | .0710901 | .2278055 |
| #2 | .6823927 | .0721689 | .2267349 |
| #3 | .6830164 | .0702748 | .2248133 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3474.073 | 74041.19 | 14909.50 | 2451.886 | 3811.544 |
| Stddev | 21.052 | 739.89 | 65.86 | 29.961 | 24.593 |
| %RSD | .6059685 | .9993002 | .4417128 | 1.221953 | .6452164 |
| #1 | 3452.066 | 73189.53 | 14838.27 | 2419.098 | 3785.040 |
| #2 | 3476.134 | 74408.21 | 14968.18 | 2458.722 | 3815.966 |
| #3 | 3494.018 | 74525.82 | 14922.05 | 2477.838 | 3833.625 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-01DLX40 Acquired: 1/29/2025 16:25:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0187640 | .0109963 | .0560347 | .0092146 | .0211938 | .4041072 | .0090349 |
| Stddev | .0004042 | .0016361 | .0012381 | .0027796 | .0012099 | .0033516 | .0006644 |
| %RSD | 2.153985 | 14.87901 | 2.209583 | 30.16553 | 5.708592 | .8293723 | 7.353784 |
| #1 | .0183222 | .0123765 | .0571743 | .0073133 | .0212683 | .4032520 | .0090659 |
| #2 | .0191151 | .0091889 | .0547173 | .0079258 | .0199484 | .4012661 | .0083555 |
| #3 | .0188547 | .0114233 | .0562126 | .0124047 | .0223647 | .4078035 | .0096832 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0003664 | .0001103 | 2.330600 | 13.53656 | 3.145471 | .0891927 | 3.714706 |
| Stddev | .0000721 | .0000537 | .005931 | .06103 | .011125 | .0023206 | .014884 |
| %RSD | 19.68381 | 48.72896 | .2544785 | .4508573 | .3536910 | 2.601769 | .4006658 |
| #1 | .0003479 | .0001111 | 2.330699 | 13.46889 | 3.149227 | .0918664 | 3.713616 |
| #2 | .0003054 | .0000562 | 2.336481 | 13.55339 | 3.132954 | .0880092 | 3.730105 |
| #3 | .0004460 | .0001636 | 2.324621 | 13.58742 | 3.154232 | .0877024 | 3.700398 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0608194 | .3501130 | 2.673387 | .0003170 | 1.030325 | .0600911 | .1017161 |
| Stddev | .0003767 | .0065209 | .009986 | .0001786 | .267136 | .0012291 | .0006484 |
| %RSD | .6193150 | 1.862516 | .3735502 | 56.34592 | 25.92739 | 2.045394 | .6374662 |
| #1 | .0612364 | .3498135 | 2.678408 | .0003394 | 1.148080 | .0587265 | .1024408 |
| #2 | .0607179 | .3567786 | 2.661887 | .0004833 | .724542 | .0604354 | .1011908 |
| #3 | .0605038 | .3437471 | 2.679867 | .0001282 | 1.218352 | .0611112 | .1015167 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0383791 | .0677831 | .0256588 | 1.621930 | 4.160503 | .2168949 | .0080175 |
| Stddev | .0370318 | .0006292 | .0004953 | .002120 | .026184 | .0008647 | .0007108 |
| %RSD | 96.48958 | .9281890 | 1.930387 | .1307360 | .6293404 | .3986843 | 8.865129 |
| #1 | .0379783 | .0674987 | .0254993 | 1.623450 | 4.187748 | .2176663 | .0086469 |
| #2 | .0015493 | .0673464 | .0252629 | 1.619508 | 4.135529 | .2170583 | .0081588 |
| #3 | .0756097 | .0685043 | .0262143 | 1.622832 | 4.158232 | .2159602 | .0072466 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1151-01DLX40 Acquired: 1/29/2025 16:25:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MC0AZ0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0105669 | .0004129 | .0222259 |
| Stddev | .0003084 | .0005358 | .0001163 |
| %RSD | 2.918777 | 129.7745 | .5233569 |
| #1 | .0109172 | .0006745 | .0222352 |
| #2 | .0103363 | .0007675 | .0223373 |
| #3 | .0104470 | -.000203 | .0221052 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3381.928 | 71088.64 | 13894.46 | 2349.035 | 4183.440 |
| Stddev | 9.629 | 240.63 | 20.84 | 16.889 | 14.724 |
| %RSD | .2847127 | .3384891 | .1499736 | .7189895 | .3519672 |
| #1 | 3370.863 | 71356.25 | 13916.71 | 2342.476 | 4169.907 |
| #2 | 3386.526 | 70890.10 | 13891.26 | 2336.410 | 4199.120 |
| #3 | 3388.397 | 71019.59 | 13875.41 | 2368.220 | 4181.293 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-02 Acquired: 1/29/2025 16:29:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1332916** | **-.008115** | **.1241497** | **.0390520** | **.0104564** | **73.31936** | **1.815188** |
| Stddev | .0022437 | .003194 | .0020063 | .0026989 | .0015296 | .13492 | .003306 |
| %RSD | 1.683272 | 39.36173 | 1.616031 | 6.911054 | 14.62833 | .1840165 | .1821311 |
| #1 | .1316711 | -.004829 | .1262752 | .0418528 | .0087586 | 73.35870 | 1.817508 |
| #2 | .1323513 | -.008305 | .1238852 | .0364681 | .0117271 | 73.43023 | 1.816653 |
| #3 | .1358524 | -.011209 | .1222888 | .0388352 | .0108834 | 73.16914 | 1.811402 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0026891** | **.0017957** | **22.39426** | **.1948245** | **.1655866** | **.2269862** | **173.7950** |
| Stddev | .0001535 | .0000573 | .06063 | .0005559 | .0009019 | .0015656 | .4200 |
| %RSD | 5.708195 | 3.193321 | .2707388 | .2853225 | .5446574 | .6897116 | .2416801 |
| #1 | .0027382 | .0018549 | 22.43003 | .1952290 | .1665949 | .2252458 | 173.8842 |
| #2 | .0028120 | .0017404 | 22.42851 | .1941906 | .1648567 | .2282797 | 174.1633 |
| #3 | .0025170 | .0017919 | 22.32426 | .1950538 | .1653083 | .2274331 | 173.3375 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.547086** | **39.02682** | **.3210292** | **.0000818** | **-.021327** | **.1925470** | **.4237105** |
| Stddev | .018885 | .07396 | .0013079 | .0003503 | .165116 | .0019752 | .0037276 |
| %RSD | .2209565 | .1895234 | .4074192 | 428.0148 | 774.1982 | 1.025822 | .8797611 |
| #1 | 8.544439 | 39.07596 | .3224795 | .0001676 | -.183422 | .1943838 | .4232525 |
| #2 | 8.567155 | 39.06274 | .3199390 | .0003813 | -.027214 | .1904577 | .4276459 |
| #3 | 8.529663 | 38.94175 | .3206691 | -.000303 | .146653 | .1927996 | .4202330 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.038283** | **1.793097** | **.3356644** | **.0085572** | **.1819520** | **1.881504** | **.0008747** |
| Stddev | .015807 | .007598 | .0023185 | .0001743 | .0034081 | .017314 | .0006804 |
| %RSD | 1.522410 | .4237169 | .6907053 | 2.036676 | 1.873073 | .9202142 | 77.78547 |
| #1 | 1.050367 | 1.797864 | .3382919 | .0085774 | .1821039 | 1.865954 | .0012053 |
| #2 | 1.044087 | 1.784336 | .3347953 | .0083737 | .1784705 | 1.900161 | .0013268 |
| #3 | 1.020394 | 1.797092 | .3339061 | .0087205 | .1852816 | 1.878397 | .0000922 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-02 Acquired: 1/29/2025 16:29:56 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6911790 | .0723408 | .2272967 |
| Stddev | .0008851 | .0005012 | .0003243 |
| %RSD | .1280508 | .6927918 | .1426642 |
| | | | |
| #1 | .6921987 | .0725685 | .2269232 |
| #2 | .6906097 | .0726878 | .2275053 |
| #3 | .6907286 | .0717663 | .2274618 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3497.706 | 74078.34 | 14765.81 | 2491.224 | 3819.523 |
| Stddev | 9.312 | 220.51 | 48.65 | 8.570 | 10.019 |
| %RSD | .2662400 | .2976685 | .3294990 | .3440216 | .2623000 |
| | | | | | |
| #1 | 3487.084 | 74078.68 | 14804.52 | 2491.671 | 3808.983 |
| #2 | 3504.470 | 73857.66 | 14711.19 | 2482.439 | 3828.922 |
| #3 | 3501.562 | 74298.68 | 14781.72 | 2499.562 | 3820.664 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-01LX5 Acquired: 1/29/2025 16:33:55 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0279216 | -.000110 | .0261435 | .0065358 | .0010576 | 15.08716 | .3639199 |
| Stddev | .0002771 | .002720 | .0005407 | .0036036 | .0008637 | .01812 | .0010852 |
| %RSD | .9924418 | 2471.147 | 2.068169 | 55.13619 | 81.66438 | .1200781 | .2982016 |
| #1 | .0276386 | .002730 | .0260613 | .0041233 | .0001171 | 15.09504 | .3627905 |
| #2 | .0281924 | -.002693 | .0256486 | .0048059 | .0018151 | 15.06644 | .3640144 |
| #3 | .0279339 | -.000367 | .0267206 | .0106782 | .0012406 | 15.10000 | .3649547 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005779 | .0002057 | 4.653275 | .0420364 | .0333367 | .0488310 | 36.44546 |
| Stddev | .0000310 | .0000233 | .021649 | .0001666 | .0002551 | .0014570 | .07372 |
| %RSD | 5.362842 | 11.33144 | .4652403 | .3962448 | .7652469 | 2.983708 | .2022632 |
| #1 | .0005919 | .0001909 | 4.632043 | .0418802 | .0336035 | .0487312 | 36.50610 |
| #2 | .0005994 | .0002326 | 4.675318 | .0420172 | .0333113 | .0474265 | 36.46687 |
| #3 | .0005424 | .0001937 | 4.652463 | .0422117 | .0330952 | .0503353 | 36.36341 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.761334 | 8.019258 | .0656501 | -.000500 | .0326023 | .0437304 | .0862960 |
| Stddev | .002824 | .036007 | .0000984 | .000410 | .2736923 | .0010148 | .0009154 |
| %RSD | .1603167 | .4490008 | .1499041 | 82.04253 | 839.4875 | 2.320548 | 1.060706 |
| #1 | 1.758134 | 7.987159 | .0657231 | -.000526 | -.099770 | .0445519 | .0861383 |
| #2 | 1.763476 | 8.058193 | .0655382 | -.000078 | -.149739 | .0440433 | .0872800 |
| #3 | 1.762391 | 8.012423 | .0656888 | -.000897 | .347315 | .0425961 | .0854698 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1995205 | .3576457 | .0630225 | .0018730 | .0430623 | .7778326 | -.000241 |
| Stddev | .0034329 | .0016931 | .0006494 | .0001855 | .0044145 | .0028200 | .000837 |
| %RSD | 1.720562 | .4734081 | 1.030421 | 9.903475 | 10.25135 | .3625475 | 347.0602 |
| #1 | .1974933 | .3565762 | .0623347 | .0016860 | .0481529 | .7749590 | .000269 |
| #2 | .2034841 | .3567631 | .0631076 | .0020569 | .0402895 | .7805958 | -.001207 |
| #3 | .1975842 | .3595978 | .0636251 | .0018762 | .0407444 | .7779430 | .000214 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-01LX5 Acquired: 1/29/2025 16:33:55 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1472591 | .0148808 | .0466970 |
| Stddev | .0002732 | .0010703 | .0001165 |
| %RSD | .1855379 | 7.192142 | .2493707 |
| | | | |
| #1 | .1473897 | .0140609 | .0465939 |
| #2 | .1474425 | .0144900 | .0468233 |
| #3 | .1469451 | .0160916 | .0466738 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3478.687 | 72252.00 | 13844.90 | 2442.941 | 4084.368 |
| Stddev | 5.406 | 259.66 | 71.78 | 14.891 | 6.106 |
| %RSD | .1554021 | .3593872 | .5184823 | .6095590 | .1494912 |
| | | | | | |
| #1 | 3472.473 | 72446.43 | 13880.73 | 2444.690 | 4077.865 |
| #2 | 3481.282 | 71957.12 | 13762.25 | 2427.252 | 4085.259 |
| #3 | 3482.306 | 72352.46 | 13891.70 | 2456.880 | 4089.979 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-03 Acquired: 1/29/2025 16:38:00 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1989204 | .0721886 | .1586515 | .2090398 | .1820507 | 75.13967 | 5.519214 |
| Stddev | .0012356 | .0020713 | .0014387 | .0039625 | .0022335 | .42569 | .088679 |
| %RSD | .6211361 | 2.869326 | .9068333 | 1.895588 | 1.226875 | .5665296 | 1.606729 |
| #1 | .1976060 | .0698360 | .1601376 | .2114475 | .1827368 | 75.03786 | 5.543283 |
| #2 | .2000580 | .0729914 | .1572654 | .2112054 | .1795546 | 75.60704 | 5.420986 |
| #3 | .1990973 | .0737383 | .1585514 | .2044663 | .1838607 | 74.77412 | 5.593375 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0933429 | .0981251 | 21.87760 | .6036258 | 1.119101 | .6882171 | 171.6394 |
| Stddev | .0004915 | .0010430 | .03871 | .0026362 | .010214 | .0039767 | .4100 |
| %RSD | .5265741 | 1.062885 | .1769366 | .4367203 | .9127070 | .5778318 | .2388546 |
| #1 | .0938591 | .0991475 | 21.91326 | .6065531 | 1.128486 | .6872993 | 171.8532 |
| #2 | .0928805 | .0970627 | 21.88312 | .6028848 | 1.108222 | .6925725 | 171.8983 |
| #3 | .0932891 | .0981651 | 21.83643 | .6014394 | 1.120596 | .6847795 | 171.1667 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.269824 | 37.92954 | 1.274786 | .0707116 | .2919342 | 1.142171 | 1.311123 |
| Stddev | .026451 | .13104 | .013424 | .0009065 | .1509470 | .004531 | .010927 |
| %RSD | .2853414 | .3454787 | 1.053069 | 1.281940 | 51.70582 | .3966679 | .8333774 |
| #1 | 9.267612 | 38.08074 | 1.285816 | .0714425 | .2532445 | 1.138259 | 1.315679 |
| #2 | 9.297311 | 37.85889 | 1.259839 | .0709951 | .1640977 | 1.141118 | 1.319034 |
| #3 | 9.244549 | 37.84899 | 1.278704 | .0696973 | .4584602 | 1.147135 | 1.298655 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.007179 | 1.743936 | .3264262 | .0077095 | .1770812 | 2.600234 | .0008911 |
| Stddev | .008007 | .018528 | .0047247 | .0002250 | .0047845 | .017727 | .0010068 |
| %RSD | .7950061 | 1.062443 | 1.447386 | 2.918952 | 2.701842 | .6817640 | 112.9916 |
| #1 | 1.000545 | 1.761382 | .3248346 | .0075526 | .1825618 | 2.585378 | -.000041 |
| #2 | 1.016074 | 1.724488 | .3317411 | .0079673 | .1737383 | 2.595466 | .001959 |
| #3 | 1.004919 | 1.745938 | .3227029 | .0076086 | .1749436 | 2.619858 | .000756 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-03 Acquired: 1/29/2025 16:38:00 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8C9S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6848287 | .0709029 | .2237726 |
| Stddev | .0039212 | .0005327 | .0017554 |
| %RSD | .5725808 | .7513310 | .7844509 |
| #1 | .6807523 | .0705935 | .2227825 |
| #2 | .6851600 | .0705972 | .2257994 |
| #3 | .6885737 | .0715180 | .2227359 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3551.130 | 74783.27 | 14845.48 | 2498.132 | 3894.601 |
| Stddev | 20.817 | 286.07 | 107.69 | 15.656 | 30.436 |
| %RSD | .5862209 | .3825270 | .7253787 | .6267221 | .7814970 |
| #1 | 3533.563 | 74468.35 | 14768.89 | 2480.968 | 3869.746 |
| #2 | 3574.123 | 75027.07 | 14968.61 | 2501.796 | 3928.547 |
| #3 | 3545.704 | 74854.38 | 14798.95 | 2511.631 | 3885.510 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-04 Acquired: 1/29/2025 16:42:04 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0887378 | -.011760 | .0787777 | .0693282 | .0165920 | 121.9645 | .3674591 |
| Stddev | .0022932 | .002327 | .0018034 | .0038167 | .0006506 | 1.0064 | .0024645 |
| %RSD | 2.584289 | 19.79146 | 2.289271 | 5.505237 | 3.921170 | .8251620 | .6706778 |
| #1 | .0911409 | -.011266 | .0794296 | .0716241 | .0158409 | 120.9884 | .3650328 |
| #2 | .0865731 | -.014295 | .0801645 | .0714381 | .0169536 | 121.9065 | .3673845 |
| #3 | .0884995 | -.009719 | .0767389 | .0649223 | .0169814 | 122.9987 | .3699600 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0002061 | .0044174 | 22.85970 | .2406294 | .1510998 | .3629217 | 288.8741 |
| Stddev | .0000574 | .0000237 | .14685 | .0008478 | .0008404 | .0045191 | 1.6275 |
| %RSD | 27.85674 | .5370632 | .6423988 | .3523202 | .5562145 | 1.245186 | .5633941 |
| #1 | .0002536 | .0043903 | 22.72364 | .2411317 | .1505256 | .3593829 | 287.2934 |
| #2 | .0002225 | .0044344 | 22.84011 | .2396506 | .1507092 | .3613700 | 288.7842 |
| #3 | .0001423 | .0044277 | 23.01537 | .2411060 | .1520644 | .3680121 | 290.5447 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.856474 | 69.45780 | .5787482 | -.001581 | .1586748 | .1877630 | .8447507 |
| Stddev | .019841 | .23025 | .0026737 | .000255 | .1504231 | .0028125 | .0072577 |
| %RSD | .5144842 | .3315005 | .4619886 | 16.15163 | 94.79962 | 1.497916 | .8591536 |
| #1 | 3.837738 | 69.21319 | .5770728 | -.001681 | .1412538 | .1874028 | .8371684 |
| #2 | 3.854423 | 69.48987 | .5773400 | -.001771 | .3170498 | .1851479 | .8454506 |
| #3 | 3.877260 | 69.67034 | .5818317 | -.001290 | .0177207 | .1907383 | .8516331 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.636893 | 4.628483 | .5552343 | .0078159 | .1170053 | 3.369085 | .0015378 |
| Stddev | .003790 | .020881 | .0122962 | .0001650 | .0051089 | .017887 | .0003214 |
| %RSD | .1041987 | .4511315 | 2.214600 | 2.110623 | 4.366362 | .5309281 | 20.90182 |
| #1 | 3.634817 | 4.616401 | .5424110 | .0076416 | .1225796 | 3.374185 | .0017620 |
| #2 | 3.641267 | 4.616455 | .5563666 | .0078366 | .1125459 | 3.349201 | .0011695 |
| #3 | 3.634596 | 4.652594 | .5669251 | .0079696 | .1158905 | 3.383868 | .0016817 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-04 Acquired: 1/29/2025 16:42:04 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D1 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2520343 | .2451030 | .2154560 |
| Stddev | .0031067 | .0020283 | .0018797 |
| %RSD | 1.232661 | .8275084 | .8724049 |
| #1 | .2495242 | .2429598 | .2135534 |
| #2 | .2555089 | .2453568 | .2155029 |
| #3 | .2510698 | .2469924 | .2173118 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3445.026 | 74137.83 | 14975.68 | 2432.202 | 3706.353 |
| Stddev | 17.442 | 173.85 | 65.16 | 10.918 | 12.966 |
| %RSD | .5062929 | .2344890 | .4350867 | .4489023 | .3498216 |
| #1 | 3454.745 | 74246.64 | 14900.73 | 2444.213 | 3710.549 |
| #2 | 3455.443 | 74229.52 | 15007.47 | 2429.514 | 3716.700 |
| #3 | 3424.890 | 73937.34 | 15018.84 | 2422.878 | 3691.809 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-05 Acquired: 1/29/2025 16:46:01 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.256717** | **-.021119** | **.2933137** | **.0894242** | **.0383522** | **17.47713** |
| Stddev | .003641 | .000248 | .0003109 | .0017594 | .0016715 | .07660 |
| %RSD | .2897251 | 1.174566 | .1059982 | 1.967506 | 4.358164 | .4382918 |
| #1 | 1.252528 | -.021315 | .2930750 | .0897451 | .0401157 | 17.40520 |
| #2 | 1.258495 | -.021200 | .2932008 | .0910011 | .0381496 | 17.46853 |
| #3 | 1.259127 | -.020840 | .2936653 | .0875264 | .0367912 | 17.55767 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2465302** | **.0006597** | **.0070313** | **303.5352** | **.0233365** | **.2057084** |
| Stddev | .0014390 | .0001525 | .0001416 | 1.9324 | .0001904 | .0003957 |
| %RSD | .5837104 | 23.11815 | 2.013833 | .6366232 | .8160572 | .1923707 |
| #1 | .2450057 | .0007862 | .0069185 | 305.7422 | .0231441 | .2058010 |
| #2 | .2467198 | .0007026 | .0069852 | 302.7163 | .0235249 | .2052746 |
| #3 | .2478650 | .0004904 | .0071902 | 302.1471 | .0233405 | .2060496 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6357874** | **335.3643** | **5.291124** | **86.32386** | **.8198033** | **-.001542** |
| Stddev | .0034018 | .9827 | .020346 | .35949 | .0018325 | .000145 |
| %RSD | .5350502 | .2930364 | .3845346 | .4164378 | .2235309 | 9.431751 |
| #1 | .6386451 | 334.2462 | 5.271712 | 85.96757 | .8203824 | -.001656 |
| #2 | .6366924 | 335.7557 | 5.289370 | 86.68645 | .8177512 | -.001378 |
| #3 | .6320246 | 336.0911 | 5.312290 | 86.31755 | .8212763 | -.001591 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0789373** | **-.000262** | **.3997445** | **6.031671** | **8.785172** | **.5555663** |
| Stddev | .1228436 | .000756 | .0019542 | .041413 | .035136 | .0057771 |
| %RSD | 155.6217 | 289.1233 | .4888719 | .6865925 | .3999446 | 1.039858 |
| #1 | -.026121 | -.001134 | .3974895 | 6.077656 | 8.798267 | .5542468 |
| #2 | .048928 | .000135 | .4007993 | 5.997317 | 8.745370 | .5505631 |
| #3 | .214005 | .000214 | .4009448 | 6.020040 | 8.811881 | .5618890 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-05 Acquired: 1/29/2025 16:46:01 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8D3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0176206 | F 148.8798 | 2.253039 | -.001275 | .0674164 | .0308626 |
| Stddev | .0005230 | .4595 | .025577 | .000908 | .0014263 | .0003879 |
| %RSD | 2.968210 | .3086108 | 1.135239 | 71.18077 | 2.115596 | 1.256726 |
| #1 | .0178769 | 148.9528 | 2.223514 | -.001490 | .0677750 | .0313099 |
| #2 | .0179660 | 148.3882 | 2.267138 | -.000279 | .0686292 | .0306188 |
| #3 | .0170189 | 149.2984 | 2.268464 | -.002056 | .0658451 | .0306592 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 3.750075 |
| Stddev | .028509 |
| %RSD | .7602258 |
| #1 | 3.749366 |
| #2 | 3.721926 |
| #3 | 3.778931 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3424.983 | 74428.86 | 14738.65 | 2429.649 | 3453.599 |
| Stddev | 7.727 | 193.58 | 102.68 | 6.510 | 10.038 |
| %RSD | .2255925 | .2600862 | .6966882 | .2679283 | .2906595 |
| #1 | 3420.926 | 74382.17 | 14721.65 | 2422.598 | 3444.688 |
| #2 | 3433.892 | 74262.90 | 14645.53 | 2435.430 | 3464.474 |
| #3 | 3420.129 | 74641.52 | 14848.77 | 2430.918 | 3451.635 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-06 Acquired: 1/29/2025 16:50:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0501549** | **-.001240** | **.1224121** | **.0374812** | **.0075337** | **68.62378** | **.2786039** |
| Stddev | .0021631 | .003235 | .0006409 | .0044340 | .0013166 | .55767 | .0024726 |
| %RSD | 4.312808 | 260.8047 | .5235320 | 11.82998 | 17.47626 | .8126516 | .8875100 |
| #1 | .0517200 | .002486 | .1222881 | .0351506 | .0074955 | 69.26766 | .2814569 |
| #2 | .0476866 | -.003328 | .1218423 | .0346985 | .0062366 | 68.29384 | .2770808 |
| #3 | .0510580 | -.002880 | .1231059 | .0425945 | .0088690 | 68.30984 | .2772740 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0007501** | **.0013262** | **11.36348** | **.0459947** | **.0614190** | **.3675516** | **140.7550** |
| Stddev | .0000717 | .0000858 | .06465 | .0002159 | .0005908 | .0018699 | .8272 |
| %RSD | 9.556740 | 6.467776 | .5689162 | .4694046 | .9618876 | .5087346 | .5877157 |
| #1 | .0006674 | .0012471 | 11.43813 | .0458904 | .0615190 | .3654069 | 141.7099 |
| #2 | .0007929 | .0013141 | 11.32630 | .0458507 | .0607846 | .3684085 | 140.3001 |
| #3 | .0007902 | .0014173 | 11.32601 | .0462429 | .0619534 | .3688396 | 140.2551 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6125545** | **52.68390** | **.1649776** | **-.001030** | **.5003016** | **.0175115** | **.7279208** |
| Stddev | .0023178 | .21520 | .0012326 | .000298 | .1801363 | .0006896 | .0057294 |
| %RSD | .3783777 | .4084760 | .7471187 | 28.96343 | 36.00553 | 3.938028 | .7870883 |
| #1 | .6143350 | 52.93196 | .1642469 | -.000925 | .5696077 | .0169213 | .7284984 |
| #2 | .6099338 | 52.57256 | .1642853 | -.000798 | .6354913 | .0173436 | .7219244 |
| #3 | .6133946 | 52.54717 | .1664007 | -.001367 | .2958058 | .0182695 | .7333394 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.953129** | **2.934455** | **.2694166** | **.0216714** | **7.937990** | **4.289885** | **-.000420** |
| Stddev | .101298 | .025796 | .0050015 | .0001838 | .067173 | .024270 | .000453 |
| %RSD | 2.562472 | .8790612 | 1.856404 | .8481026 | .8462264 | .5657504 | 107.7185 |
| #1 | 4.069037 | 2.931643 | .2747413 | .0218113 | 7.918953 | 4.293313 | .000084 |
| #2 | 3.881562 | 2.910181 | .2686909 | .0214633 | 7.882390 | 4.312258 | -.000552 |
| #3 | 3.908788 | 2.961542 | .2648177 | .0217396 | 8.012628 | 4.264083 | -.000793 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: Q1159-06 Acquired: 1/29/2025 16:50:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: YE8E2 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1338812 | .1732689 | .0887259 |
| Stddev | .0008944 | .0016405 | .0006002 |
| %RSD | .6680438 | .9467989 | .6764925 |
| #1 | .1346043 | .1751632 | .0894023 |
| #2 | .1341582 | .1723177 | .0882567 |
| #3 | .1328811 | .1723257 | .0885188 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3402.878 | 72344.57 | 14367.31 | 2416.732 | 3864.416 |
| Stddev | 20.907 | 240.22 | 56.19 | 5.721 | 29.720 |
| %RSD | .6144053 | .3320534 | .3910789 | .2367054 | .7690565 |
| #1 | 3408.460 | 72109.34 | 14428.78 | 2411.159 | 3869.607 |
| #2 | 3420.429 | 72334.87 | 14318.61 | 2416.449 | 3891.197 |
| #3 | 3379.747 | 72589.50 | 14354.53 | 2422.589 | 3832.442 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: PB166301BL Acquired: 1/29/2025 16:54:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS301 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014722 | .0005788 | -.000162 | -.000209 | -.000888 | .0034935 | -.001386 |
| Stddev | .0016262 | .0011777 | .000134 | .000890 | .001241 | .0022699 | .000364 |
| %RSD | 110.4589 | 203.4647 | 82.83515 | 425.0691 | 139.7520 | 64.97396 | 26.29039 |
| #1 | .0027938 | .0002126 | -.000271 | .000632 | .000318 | .0011899 | -.000981 |
| #2 | .0019666 | .0018960 | -.000012 | -.000119 | -.000820 | .0035624 | -.001687 |
| #3 | -.000344 | -.000372 | -.000203 | -.001141 | -.002162 | .0057281 | -.001490 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000065 | .0000037 | .0006040 | .0000265 | -.000088 | .0016828 | .0012867 |
| Stddev | .000059 | .0000537 | .0043221 | .0004206 | .000046 | .0018395 | .0020630 |
| %RSD | 90.61835 | 1444.386 | 715.6025 | 1588.415 | 52.76473 | 109.3091 | 160.3251 |
| #1 | .000002 | -.000058 | -.001006 | -.000379 | -.000137 | -.000152 | .0033567 |
| #2 | -.000109 | .000031 | .005500 | -.000003 | -.000080 | .001673 | .0012727 |
| #3 | -.000086 | .000039 | -.002682 | .000461 | -.000046 | .003527 | -.000769 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000009 | .0163660 | .0000343 | .0002192 | -.051921 | .0018158 | .0001182 |
| Stddev | .000310 | .0152790 | .0001385 | .0000848 | .164522 | .0005337 | .0029826 |
| %RSD | 3612.855 | 93.35854 | 403.4249 | 38.68333 | 316.8716 | 29.39162 | 2524.196 |
| #1 | .000119 | .0173273 | .0001412 | .0002970 | .115684 | .0024221 | -.002983 |
| #2 | .000218 | .0006290 | .0000839 | .0002317 | -.213176 | .0016084 | .000371 |
| #3 | -.000362 | .0311416 | -.000122 | .0001288 | -.058270 | .0014170 | .002966 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.082991 | -.000544 | -.001887 | .0000723 | .0140713 | .0020464 | -.000790 |
| Stddev | .043761 | .000712 | .000507 | .0002118 | .0010214 | .0025711 | .000608 |
| %RSD | 52.73033 | 130.8203 | 26.84248 | 292.7730 | 7.258593 | 125.6384 | 76.93164 |
| #1 | -.035963 | -.000722 | -.001303 | .0003136 | .0152476 | .0042574 | -.001421 |
| #2 | -.090493 | .000240 | -.002201 | -.000014 | .0134097 | -.000775 | -.000209 |
| #3 | -.122516 | -.001150 | -.002158 | -.000083 | .0135565 | .002657 | -.000741 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: PB166301BL Acquired: 1/29/2025 16:54:14 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS301 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0008493 | -.001151 | -.000035 |
| Stddev | .0003171 | .001222 | .000020 |
| %RSD | 37.33305 | 106.1694 | 57.37050 |
| #1 | .0006801 | -.001257 | -.000054 |
| #2 | .0012151 | .000120 | -.000036 |
| #3 | .0006527 | -.002318 | -.000014 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3434.646 | 72163.04 | 13392.38 | 2452.905 | 4175.397 |
| Stddev | 2.399 | 126.32 | 41.20 | 7.232 | 6.759 |
| %RSD | .0698387 | .1750503 | .3076184 | .2948397 | .1618852 |
| #1 | 3432.762 | 72068.35 | 13349.34 | 2444.568 | 4172.126 |
| #2 | 3437.346 | 72114.30 | 13396.36 | 2457.486 | 4183.170 |
| #3 | 3433.830 | 72306.47 | 13431.45 | 2456.662 | 4170.895 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: PB166301BS Acquired: 1/29/2025 16:58:23 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS301 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0204015** | **.0533871** | **.0204333** | **.0696364** | **.1149056** | **.3743441** | **.3857782** |
| Stddev | .0020603 | .0011946 | .0011372 | .0008329 | .0006655 | .0071780 | .0057485 |
| %RSD | 10.09856 | 2.237617 | 5.565605 | 1.196045 | .5791292 | 1.917494 | 1.490119 |
| #1 | .0213022 | .0526877 | .0214121 | .0686946 | .1154593 | .3661194 | .3804609 |
| #2 | .0180443 | .0547665 | .0207022 | .0702761 | .1141673 | .3793454 | .3918779 |
| #3 | .0218581 | .0527072 | .0191858 | .0699384 | .1150900 | .3775674 | .3849958 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0103759** | **.0101741** | **9.603222** | **.0220295** | **.0993005** | **.0540444** | **.2034108** |
| Stddev | .0000124 | .0000791 | .108865 | .0003788 | .0000607 | .0017744 | .0058525 |
| %RSD | .1199413 | .7774273 | 1.133626 | 1.719663 | .0611091 | 3.283175 | 2.877188 |
| #1 | .0103898 | .0101047 | 9.511716 | .0222531 | .0993062 | .0543044 | .2059993 |
| #2 | .0103657 | .0102602 | 9.723617 | .0222433 | .0992371 | .0556744 | .2075227 |
| #3 | .0103721 | .0101574 | 9.574333 | .0215921 | .0993581 | .0521543 | .1967104 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0309728** | **8.624251** | **.0806772** | **.0196446** | **9.472246** | **.1064658** | **.1198823** |
| Stddev | .0005916 | .062660 | .0001685 | .0003003 | .397996 | .0019069 | .0014560 |
| %RSD | 1.909907 | .7265507 | .2088680 | 1.528595 | 4.201704 | 1.791039 | 1.214505 |
| #1 | .0302907 | 8.577438 | .0808069 | .0193709 | 9.275993 | .1082080 | .1194766 |
| #2 | .0312824 | 8.695434 | .0807380 | .0199658 | 9.210491 | .1067609 | .1214981 |
| #3 | .0313453 | 8.599879 | .0804867 | .0195969 | 9.930253 | .1044287 | .1186722 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.211476** | **.0164769** | **-.001202** | **.0211628** | **.1814764** | **.8716308** | **.0134407** |
| Stddev | .112971 | .0013291 | .001173 | .0000983 | .0039241 | .0045356 | .0009027 |
| %RSD | 1.226418 | 8.066280 | 97.62356 | .4642728 | 2.162291 | .5203641 | 6.716086 |
| #1 | 9.086019 | .0169538 | -.001973 | .0210897 | .1849568 | .8670806 | .0144690 |
| #2 | 9.305155 | .0149752 | .000148 | .0211243 | .1822487 | .8716603 | .0127792 |
| #3 | 9.243254 | .0175017 | -.001781 | .0212745 | .1772236 | .8761517 | .0130739 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: PB166301BS Acquired: 1/29/2025 16:58:23 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS301 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2080600 | .0292012 | .1964681 |
| Stddev | .0013034 | .0011893 | .0027596 |
| %RSD | .6264287 | 4.072850 | 1.404620 |
| #1 | .2073680 | .0293204 | .1937806 |
| #2 | .2095634 | .0303265 | .1992946 |
| #3 | .2072486 | .0279568 | .1963290 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3358.142 | 70595.31 | 13609.37 | 2370.478 | 4008.387 |
| Stddev | 5.275 | 680.25 | 56.62 | 20.041 | 3.913 |
| %RSD | .1570865 | .9635915 | .4160270 | .8454342 | .0976280 |
| #1 | 3359.037 | 70920.25 | 13559.92 | 2384.715 | 4005.895 |
| #2 | 3362.912 | 69813.52 | 13597.07 | 2347.560 | 4012.897 |
| #3 | 3352.477 | 71052.15 | 13671.13 | 2379.157 | 4006.369 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCV029 Acquired: 1/29/2025 17:02:27 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV029 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.138618** | **4.871049** | **24.74611** | **5.106162** | **5.195191** | **400.1911** | **10.57906** |
| Stddev | .004666 | .033871 | .01247 | .017924 | .017703 | 8.0587 | .28465 |
| %RSD | .0908082 | .6953495 | .0504108 | .3510250 | .3407505 | 2.013715 | 2.690697 |
| #1 | 5.134306 | 4.834905 | 24.73613 | 5.086391 | 5.180835 | 391.0433 | 10.27558 |
| #2 | 5.137977 | 4.902061 | 24.74211 | 5.110749 | 5.189766 | 406.2419 | 10.84012 |
| #3 | 5.143572 | 4.876181 | 24.76010 | 5.121347 | 5.214971 | 403.2881 | 10.62148 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4963027** | **2.491449** | **406.6289** | **15.75585** | **2.507844** | **15.12346** | **406.6988** |
| Stddev | .0042664 | .002536 | 8.4825 | .36069 | .003415 | .06353 | 6.8989 |
| %RSD | .8596333 | .1017761 | 2.086056 | 2.289268 | .1361807 | .4200955 | 1.696324 |
| #1 | .4914756 | 2.490737 | 399.2950 | 15.35606 | 2.506132 | 15.05011 | 399.0782 |
| #2 | .4978637 | 2.494265 | 415.9184 | 16.05687 | 2.505624 | 15.15972 | 412.5191 |
| #3 | .4995687 | 2.489346 | 404.6731 | 15.85461 | 2.511777 | 15.16057 | 408.4992 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.54516** | **402.4020** | **2.497105** | **1.316177** | **388.2909** | **2.490063** | **15.86578** |
| Stddev | .28424 | 6.4836 | .002375 | .028090 | 1.2989 | .013804 | .43350 |
| %RSD | 1.828485 | 1.611228 | .0951015 | 2.134229 | .3345215 | .5543536 | 2.732288 |
| #1 | 15.24168 | 395.1436 | 2.495763 | 1.285061 | 387.0067 | 2.479007 | 15.42721 |
| #2 | 15.80514 | 407.6198 | 2.495705 | 1.339666 | 388.2620 | 2.485647 | 16.29403 |
| #3 | 15.58867 | 404.4427 | 2.499847 | 1.323804 | 389.6041 | 2.505534 | 15.87611 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **164.3148** | **4.982163** | **5.396442** | **5.038787** | **5.040049** | **4.890863** | **4.985871** |
| Stddev | 2.9331 | .013057 | .056849 | .013319 | .011868 | .024028 | .009646 |
| %RSD | 1.785031 | .2620662 | 1.053458 | .2643236 | .2354655 | .4912817 | .1934705 |
| #1 | 161.0852 | 4.968407 | 5.330805 | 5.028852 | 5.037419 | 4.864580 | 4.975107 |
| #2 | 166.8129 | 4.983700 | 5.430076 | 5.033587 | 5.053011 | 4.911702 | 4.988773 |
| #3 | 165.0463 | 4.994384 | 5.428445 | 5.053921 | 5.029717 | 4.896306 | 4.993733 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCV029 Acquired: 1/29/2025 17:02:27 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV029 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **5.007080** | **5.401779** | **5.385030** |
| Stddev | .019205 | .110489 | .104220 |
| %RSD | .3835628 | 2.045422 | 1.935372 |
| #1 | 4.985420 | 5.283238 | 5.280026 |
| #2 | 5.013790 | 5.501902 | 5.488449 |
| #3 | 5.022030 | 5.420196 | 5.386615 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2767.424** | **59931.80** | **12834.65** | **1943.987** | **3008.578** |
| Stddev | 6.399 | 1073.69 | 39.64 | 48.667 | 3.297 |
| %RSD | .2312185 | 1.791527 | .3088727 | 2.503474 | .1095744 |
| #1 | 2769.802 | 61101.51 | 12868.05 | 1994.675 | 3008.553 |
| #2 | 2772.293 | 58991.06 | 12845.06 | 1897.630 | 3011.888 |
| #3 | 2760.177 | 59702.84 | 12790.84 | 1939.657 | 3005.295 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCB029 Acquired: 1/29/2025 17:06:45 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB029 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005161 | .0004822 | .0004229 | -.000197 | .0002698 | .0028082 | -.000049 |
| Stddev | .0008616 | .0014907 | .0017112 | .000885 | .0025665 | .0040995 | .001067 |
| %RSD | 166.9242 | 309.1627 | 404.6330 | 448.9100 | 951.1562 | 145.9824 | 2165.134 |
| #1 | -.000444 | .0007864 | -.000202 | -.000552 | .0003166 | .0025719 | -.001215 |
| #2 | .000772 | .0017973 | -.000888 | -.000850 | .0028127 | -.001168 | .000188 |
| #3 | .001221 | -.001137 | .002359 | .000811 | -.002320 | .007021 | .000879 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000025 | -.000009 | .0126753 | .0002820 | -.000264 | .0006676 | .0012756 |
| Stddev | .000066 | .000085 | .0057133 | .0002602 | .000113 | .0003769 | .0067152 |
| %RSD | 261.6348 | 986.6360 | 45.07415 | 92.25884 | 42.80054 | 56.45544 | 526.4178 |
| #1 | .000045 | .000086 | .0070665 | .0000092 | -.000232 | .0009174 | -.004984 |
| #2 | -.000084 | -.000080 | .0184876 | .0005274 | -.000390 | .0002341 | .008369 |
| #3 | -.000036 | -.000032 | .0124718 | .0003095 | -.000170 | .0008513 | .000442 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000044 | .0111232 | -.000005 | -.000039 | .0764491 | .0011841 | .0005432 |
| Stddev | .000074 | .0019353 | .000534 | .000074 | .4911489 | .0017759 | .0012147 |
| %RSD | 170.6646 | 17.39868 | 11081.35 | 188.9181 | 642.4519 | 149.9798 | 223.6179 |
| #1 | -.000063 | .0093486 | .000050 | .000004 | .4575309 | .0031458 | .0016268 |
| #2 | .000039 | .0131867 | -.000564 | -.000125 | -.477836 | -.000314 | .0007726 |
| #3 | -.000106 | .0108343 | .000500 | .000004 | .249652 | .000720 | -.000770 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0886969 | -.001276 | .0023639 | .0002095 | .0066403 | -.000141 | -.000272 |
| Stddev | .0223749 | .000301 | .0004744 | .0003216 | .0024157 | .000466 | .000051 |
| %RSD | 25.22620 | 23.55349 | 20.06705 | 153.5475 | 36.37993 | 329.2323 | 18.63826 |
| #1 | .1068021 | -.001365 | .0021266 | -.000140 | .0094218 | -.000597 | -.000330 |
| #2 | .0636823 | -.000941 | .0029100 | .000493 | .0054320 | .000333 | -.000242 |
| #3 | .0956064 | -.001523 | .0020550 | .000276 | .0050671 | -.000160 | -.000243 |

Reviewed By:Mohan
On:1/31/2025 7:33:47 AM
Inst Id :P4

Sample Name: CCB029 Acquired: 1/29/2025 17:06:45 Type: Unk
Method: EPA SFAM01.0(v59) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB029 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000046 | .0007411 | .0000052 |
| Stddev | .000410 | .0005966 | .0000571 |
| %RSD | 897.9000 | 80.50076 | 1098.683 |
| | | | |
| #1 | .000298 | .0012986 | -.000054 |
| #2 | .000065 | .0001119 | .000010 |
| #3 | -.000500 | .0008127 | .000060 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3363.619 | 72843.87 | 13860.85 | 2396.212 | 4111.113 |
| Stddev | 6.179 | 153.73 | 10.39 | 4.343 | 10.825 |
| %RSD | .1837010 | .2110445 | .0749355 | .1812621 | .2633219 |
| | | | | | |
| #1 | 3369.820 | 72678.29 | 13852.73 | 2400.212 | 4122.495 |
| #2 | 3357.462 | 72982.07 | 13857.25 | 2391.592 | 4100.947 |
| #3 | 3363.575 | 72871.24 | 13872.55 | 2396.831 | 4109.896 |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1159

**Test :** Metals CLP12

**Prepbatch ID :** PB166301,

**Sequence ID/Qc Batch ID:** LB134475,

**Standard ID :**
MP83500,MP84041,MP84063,MP84070,MP84204,MP84206,MP84207,MP84208,MP84209,MP84210,MP84211,MP84212,MP84213,MP84214,MP84215,MP84216,MP84218,MP84219,

**Chemical ID :**
M5130,M5218,M5223,M5289,M5295,M5298,M5393,M5429,M5466,M5472,M5476,M5496,M5497,M5513,M5519,M5565,M5658,M5697,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5817,M5819,M5875,M5942,M5959,M5961,M5962,M5976,M5977,M5978,M5985,M5990,M6021,M6023,M6025,M6028,M6030,M6032,M6077,M6121,M6125,M6126,M6127,M6128,M6144,W3112,

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# Metals STANDARD PREPARATION LOG

| 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

| 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 |
|---|---|---|---|---|---|---|---|---|
| 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

| 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 |
|---|---|---|---|---|---|---|---|---|
| 902 | ICP AES CAL BLK ( SO/ICB/CCB) | MP84204 | 01/24/2025 | 02/24/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**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 |
|---|---|---|---|---|---|---|---|---|
| 2480 | ICP AES STD 6 ISM01.3 | MP84206 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5497 + 4.00000ml of M6127 + 4.00000ml of M6144 + 30.00000ml of MP84204 = Final Quantity: 50.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1004 | ICPAES ISM01.2 (S5) | MP84207 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**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 M5819 + 12.50000ml of M6128 + 12.50000ml of M6144 + 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 M5393 + 5.00000ml of M5802 + 5.00000ml of M5875 + 5.00000ml of M6077 + 303.50000ml of MP84204 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1005 | ICPAES ISM01.2(S4) | MP84208 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 250.00000ml of MP84204 + 250.00000ml of MP84207 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1007 | ICPAES ISM01.2(S3) | MP84209 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 25.00000ml of MP84207 + 75.00000ml of MP84204 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1008 | ICPAES ISM01.2(S2) | MP84210 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 12.50000ml of MP84207 + 87.50000ml of MP84204 = 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 |
|---|---|---|---|---|---|---|---|---|
| 994 | ICPAES ISM01.2 S1 (CONC.) | MP84211 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**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 M5977 + 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 M6127 + 10.00000ml of M6144 + 2.00000ml of M5978 + 4.00000ml of M6032 + 34.24000ml of MP84204 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1003 | ICPAES ISM01.2 S1 | MP84212 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 0.50000ml of MP84211 + 99.50000ml of MP84204 = 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 |
|---|---|---|---|---|---|---|---|---|
| 912 | ICP AES ICV SOLN | MP84213 | 01/24/2025 | 02/05/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5466 + 0.25000ml of M5218 + 0.25000ml of M5472 + 10.00000ml of M5295 + 89.77500ml of MP84204 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 904 | ICP AES ICSA SOLN | MP84214 | 01/24/2025 | 02/07/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 25.00000ml of M5130 + 225.00000ml of MP84204 = 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 |
|---|---|---|---|---|---|---|---|---|
| 905 | ICP AES ICSAB SOLN | MP84215 | 01/24/2025 | 02/07/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP84204 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1119 | ICPAES ISM01.2(CCV) | MP84216 | 01/24/2025 | 02/04/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 0.75000ml of M5497 + 0.75000ml of M6127 + 1.22500ml of M5496 + 1.25000ml of M5298 + 1.25000ml of M6144 + 19.77500ml of MP84204 + 25.00000ml of MP84207 = Final Quantity: 50.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 919 | ICP AES INTERNAL STD | MP84218 | 01/24/2025 | 02/24/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**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 | MP84219 | 01/24/2025 | 02/24/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 01/27/2025 |

**FROM** 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 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 # |
|---|---|---|---|---|---|---|
| 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 # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 020422 | 02/04/2025 | 05/02/2023 / jaswal | 06/15/2022 / jaswal | M5298 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 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. | 57058 / Cerium, 1000PPM, 100ML | 061322 | 06/13/2025 | 03/06/2023 / bin | 03/01/2023 / bin | M5466 |

| 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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# CHEMICAL RECEIPT LOG BOOK

| 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. | 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 |

| 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 |

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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. | 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 |

| 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 |

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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. | 57115 / P, 10000 PPM, 125 ml | 041723 | 04/17/2026 | 05/21/2024 / Jaswal | 02/09/2024 / jaswal | M5815 |

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| 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 # |
|---|---|---|---|---|---|---|
| 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 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027 | 07/02/2024 / Jaswal | 06/11/2024 / Jaswal | M5961 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57034 / Se, 1000 PPM, 125 ml | 060624 | 06/06/2027 | 07/02/2024 / Jaswal | 06/14/2024 / Jaswal | M5962 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL | T2-MO720876 | 07/17/2027 | 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 | CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL | T2-MO720876 | 07/17/2027 | 01/16/2025 / JANVI | 02/22/2024 / Jaswal | M5977 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5978 |

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 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 |

| 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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# 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 | 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 | Z9651Q / CHEM-CLP-4/.25L | V2-MEB746762 | 09/06/2029 | 01/23/2025 / kareem | 09/19/2024 / kareem | M6077 |

| 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 # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 1403 / Hydrogen Peroxide, 30% 1 gal | 820803 | 05/25/2025 | 11/26/2024 / Eman | 11/22/2024 / Eman | M6125 |

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

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

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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. | 58025 / Mn, 1000 PPM, 500 ml | 101124 | 10/11/2027 | 01/13/2025 / kareem | 01/13/2025 / kareem | M6128 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58111 / Na, 10000 PPM, 500 ml | 072424 | 07/24/2027 | 01/23/2025 / kareem | 01/13/2025 / Jaswal | M6144 |

| 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 |

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

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

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

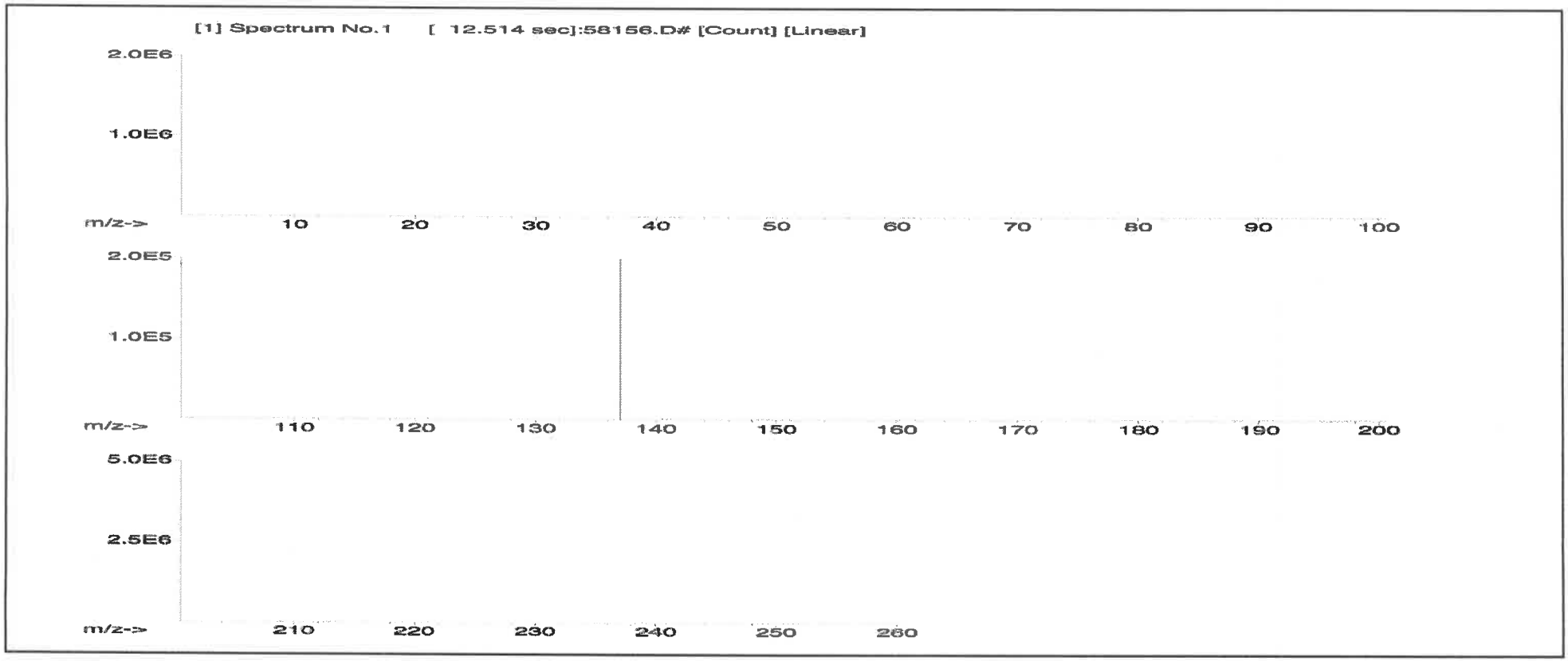
Giovanni Esposito

| | | |
|---|---|---|
| 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).

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

***Certified Reference Material CRM***

M6028

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

R 8/5/24

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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 | | |

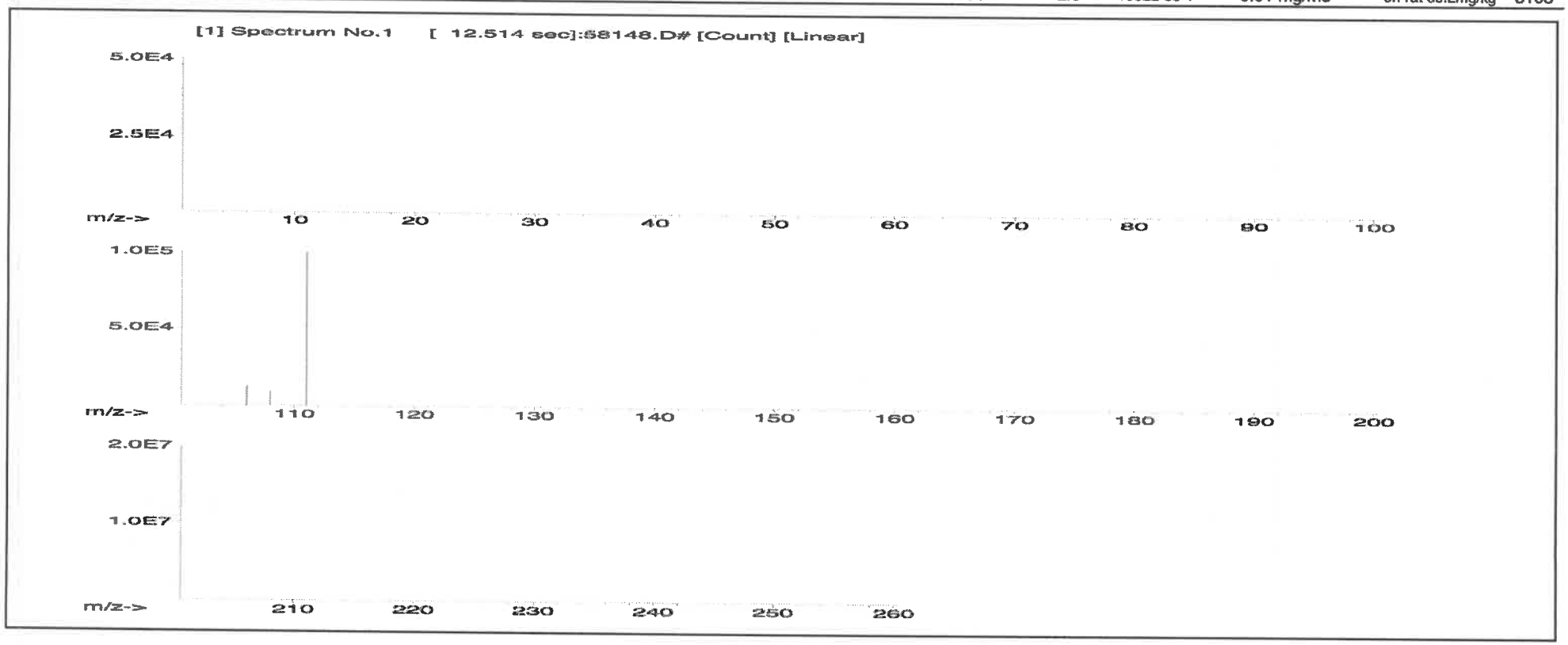
Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 070124 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 070124 |

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



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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

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:<br>Calcium, Potassium,<br>Magnesium, Sodium,<br>2 000 µg/mL ea:<br>Aluminum, Barium,<br>1 000 µg/mL ea:<br>Iron,<br>500 µg/mL ea:<br>Nickel, Vanadium,<br>Zinc, Cobalt,<br>Manganese,<br>250 µg/mL ea:<br>Silver, Copper,<br>200 µg/mL ea:<br>Chromium,<br>50 µg/mL ea:<br>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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

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

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

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

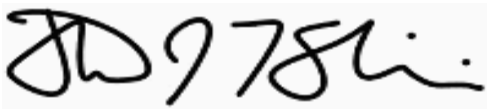
- Sealed TCT Bag Open Date: _____

- 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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# Certificate of Analysis

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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: | CLPP-CAL-3 |
| Lot Number: | T2-MEB714159 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Arsenic, Lead,<br>Selenium, Thallium,<br><br>500 µg/mL ea:<br>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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

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

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**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

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- 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

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- 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

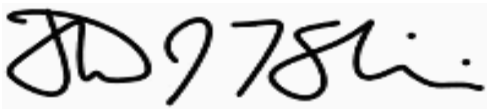
- Sealed TCT Bag Open Date: _____

- 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: 8/15/24 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)

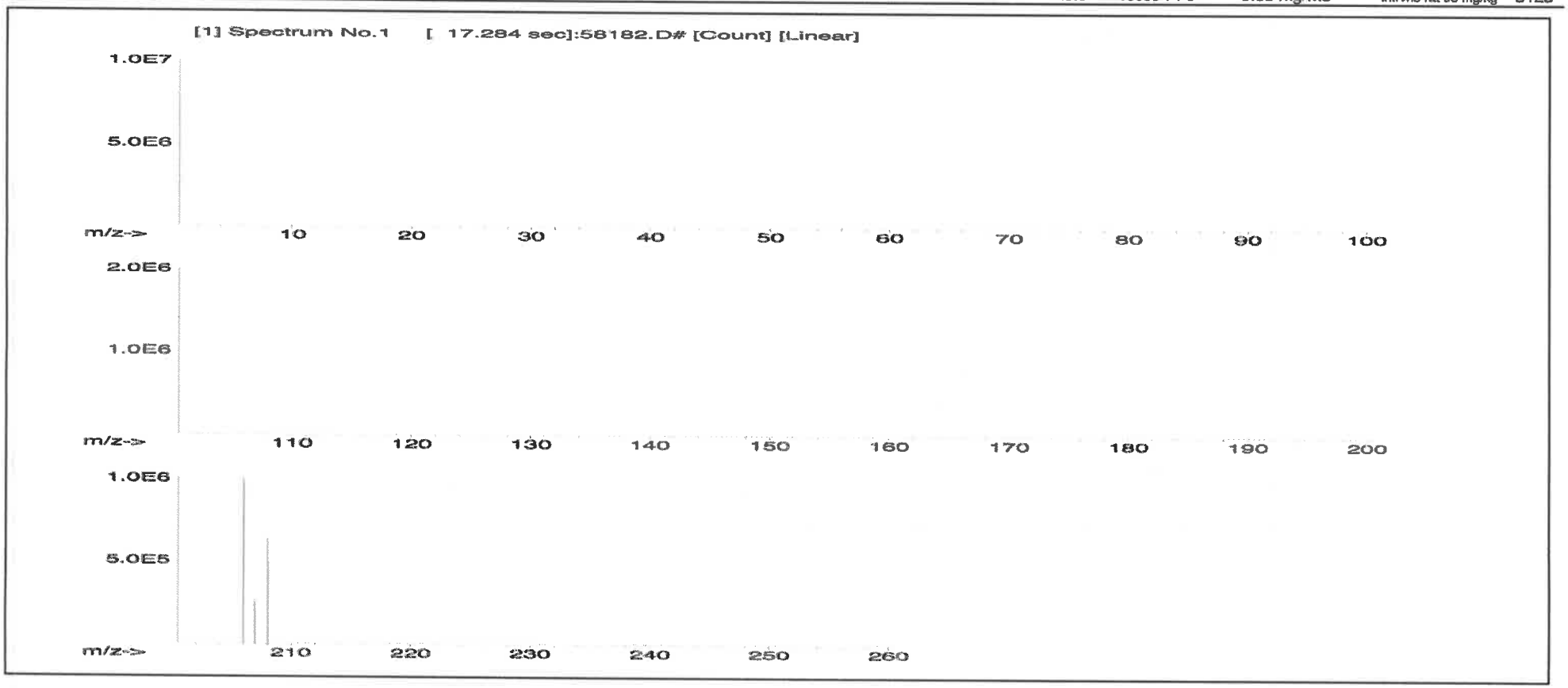
**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

| | 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<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>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

## 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

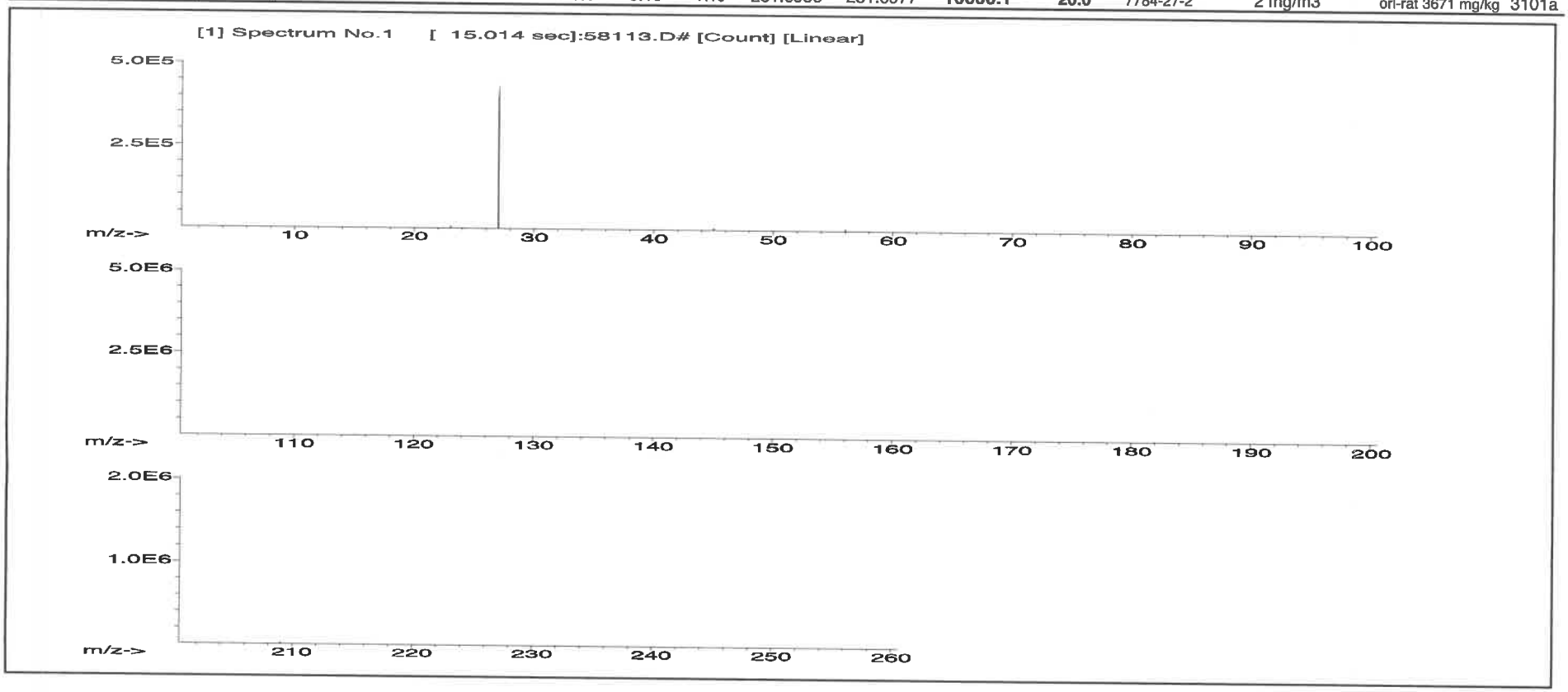
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Solvent:** | 20370011 | Nitric Acid |
| **Lot Number:** | **070622** | | | | |
| **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 | | | |

Lot #

| | | |
|---|---|---|
| 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

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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

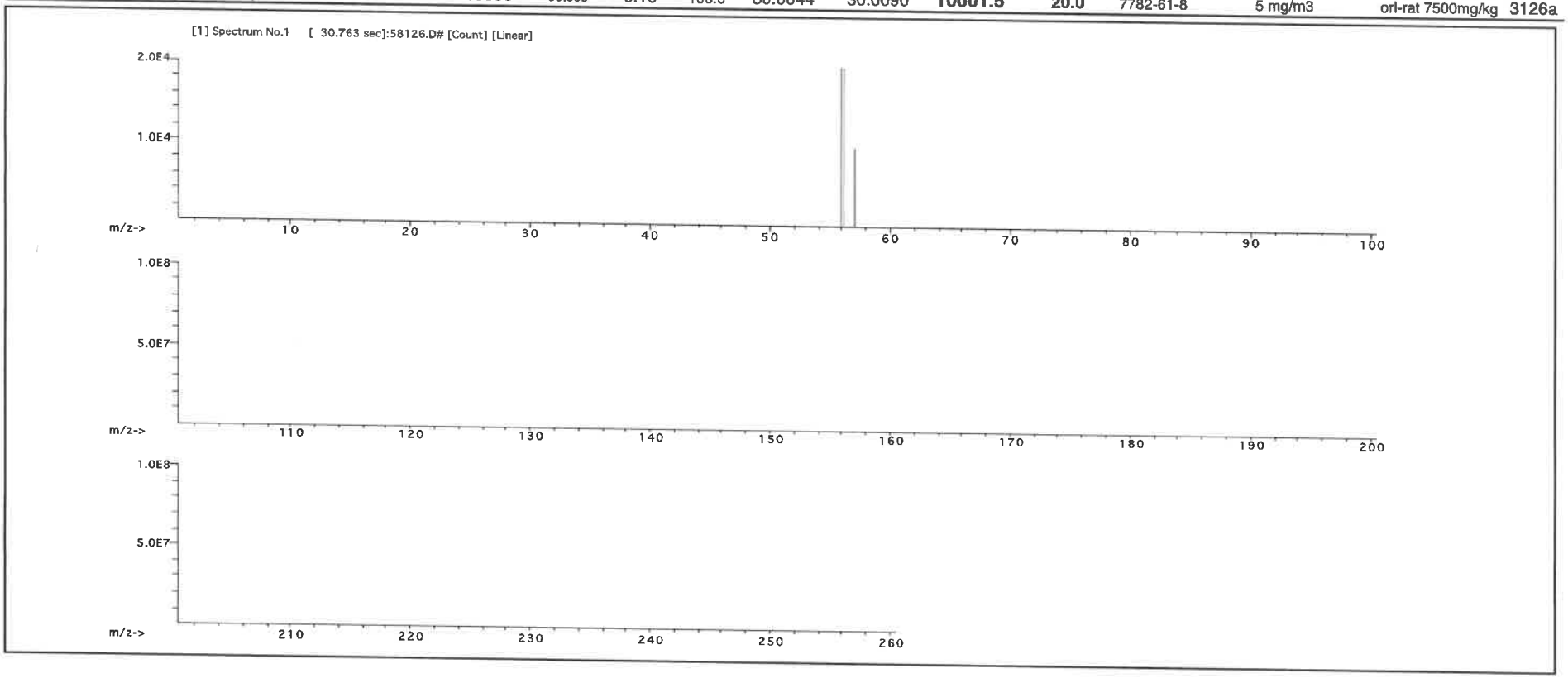
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20370011 | Nitric Acid | |
| 5.0% | 150.0 (mL) | Nitric Acid | |

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 |




165

**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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CERTIFIED WEIGHT REPORT:

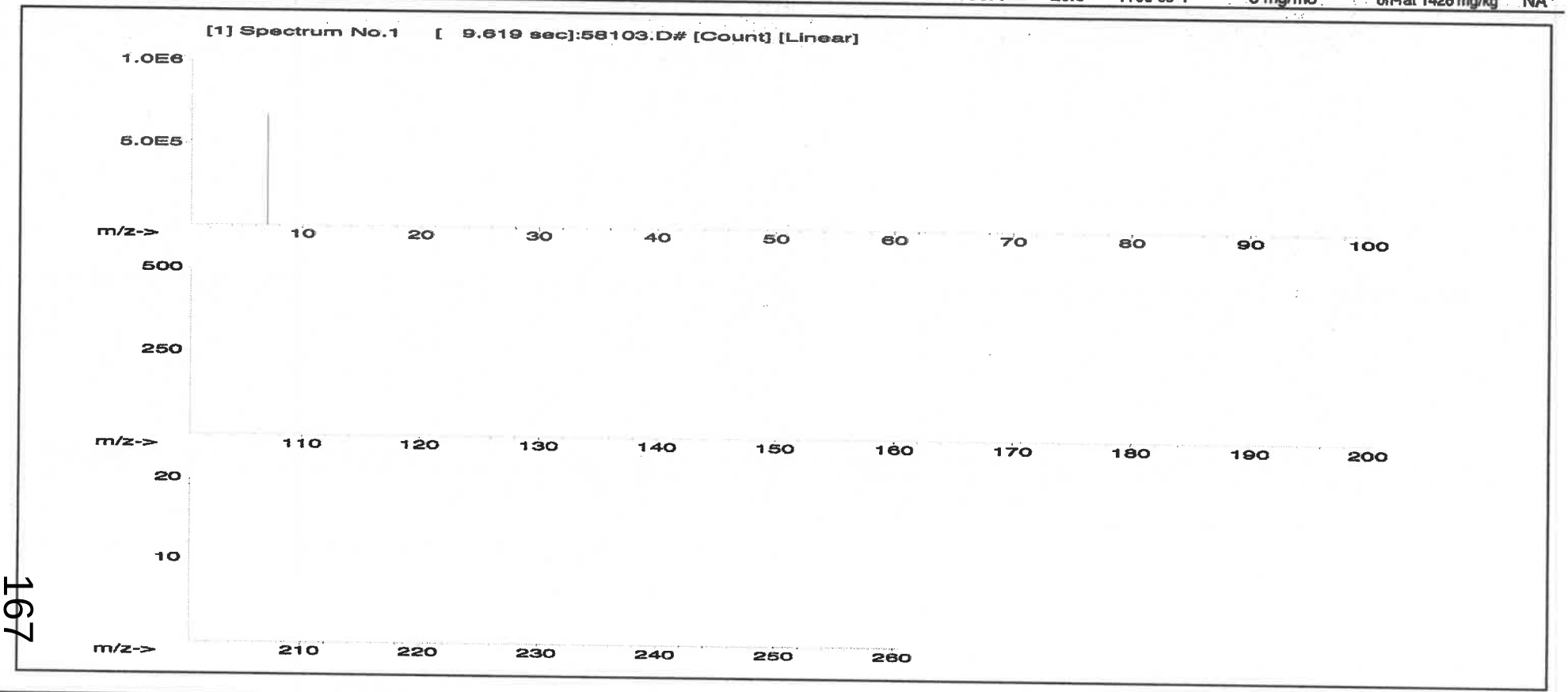
**Part Number:** 57103
**Lot Number:** 070622
**Description:** Lithium (Li)

**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 ± 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 20.0 (mL) | Nitric Acid | ± 5E-05 Balance 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 |

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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 | 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:**

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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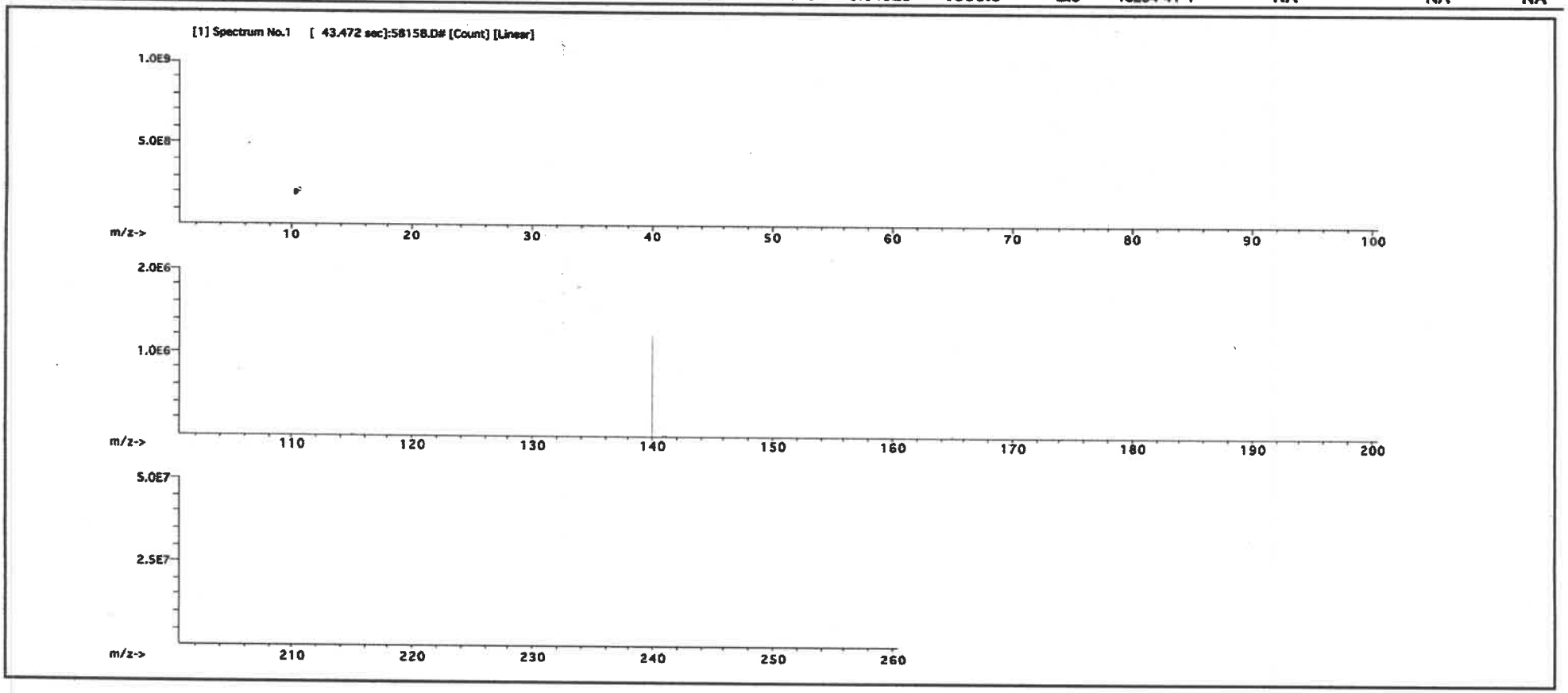
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57058** | | | **Lot #** | |
| **Lot Number:** | **061322** | | **Solvent:** | 20510011 | Nitric Acid |
| **Description:** | **Cerium (Ce)** | | | | |
| | | | 2% | 20.0 (mL) | Nitric Acid |
| **Expiration Date:** | 061325 | | | | |
| **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):** | 1000.12 | 0.058 | Flask Uncertainty | | |

| | |
|---|---|
| Formulated By: | Lawrence Barry 061322 |
| Reviewed By: | Pedro L. Rentas 061322 |

| 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. Cerium nitrate hexahydrate (Ce) | IN146 | Z512CEB1 | 1000 | 99.999 | 0.10 | 32.8 | 3.04919 | 3.04923 | 1000.0 | 2.0 | 10294-41-4 | NA | NA | NA |



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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 | T | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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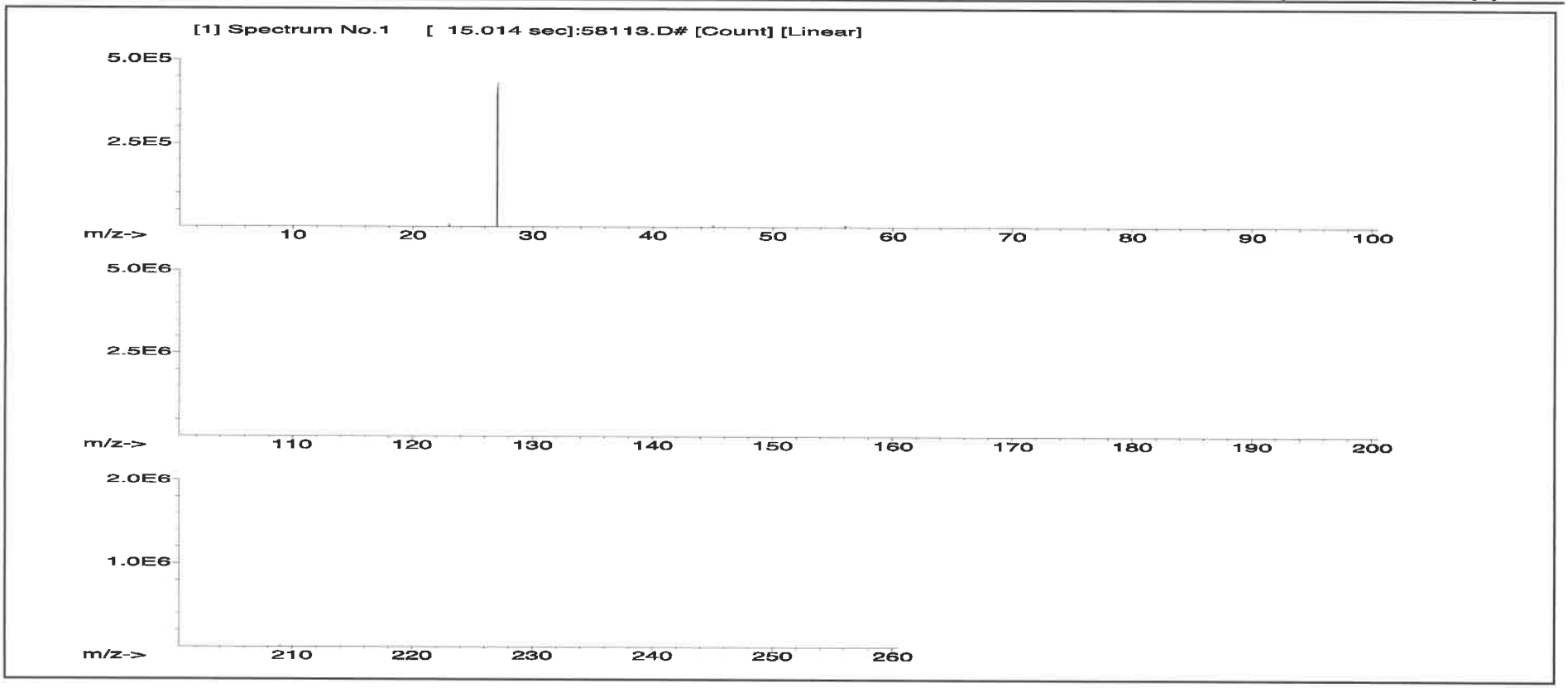
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Lot #** | | |
| **Lot Number:** | **011623** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Aluminum (Al)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 011626 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 011623 |
| Reviewed By: | Pedro L. Rentas | 011623 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aluminum nitrate nonahydrate (Al) | IN022 | ALM112021A1 | 10000 | 99.999 | 0.10 | 7.30 | 273.9779 | 274.0078 | **10001.1** | **20.0** | 7784-27-2 | 2 mg/m3 | orl-rat 3671 mg/kg | 3101a |



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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

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

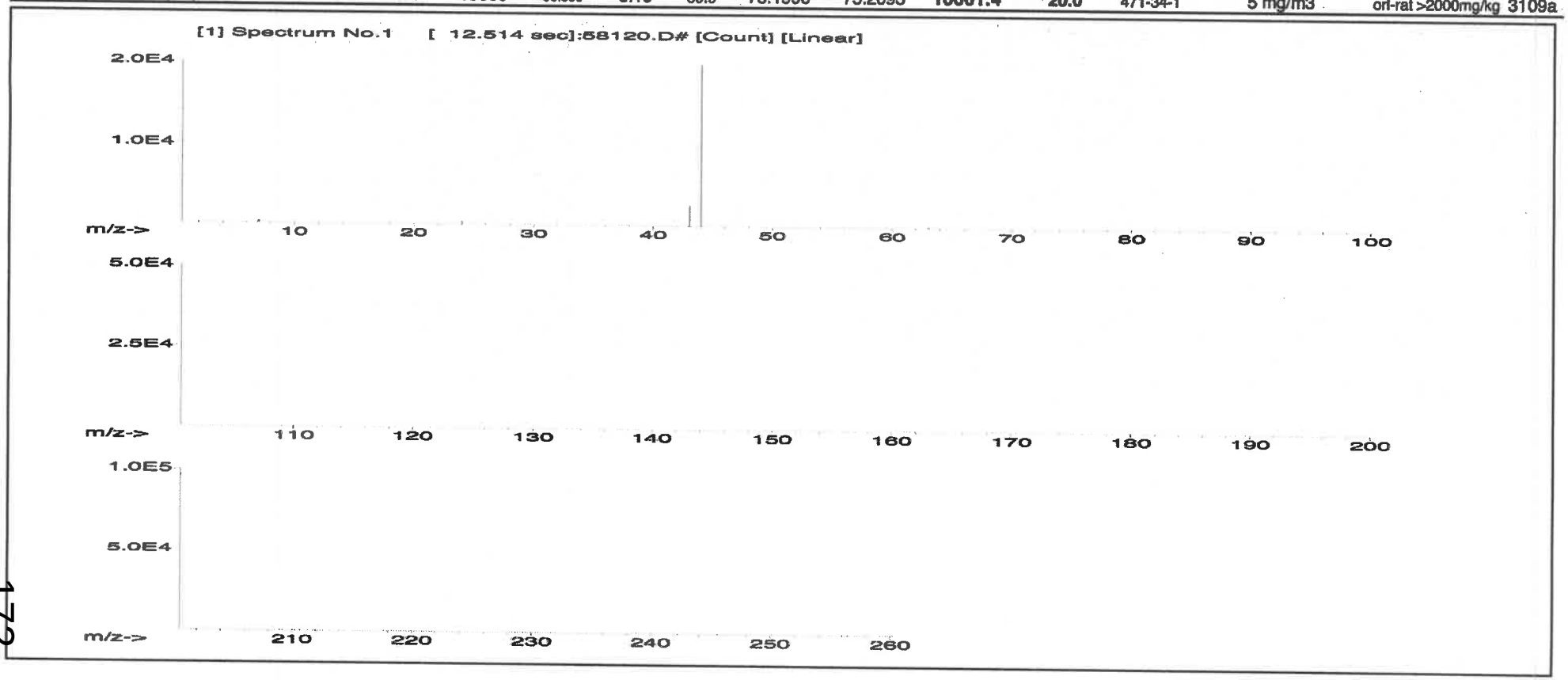
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031523 |
| Reviewed By: | Pedro L. Rentas | 031523 |

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

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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <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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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

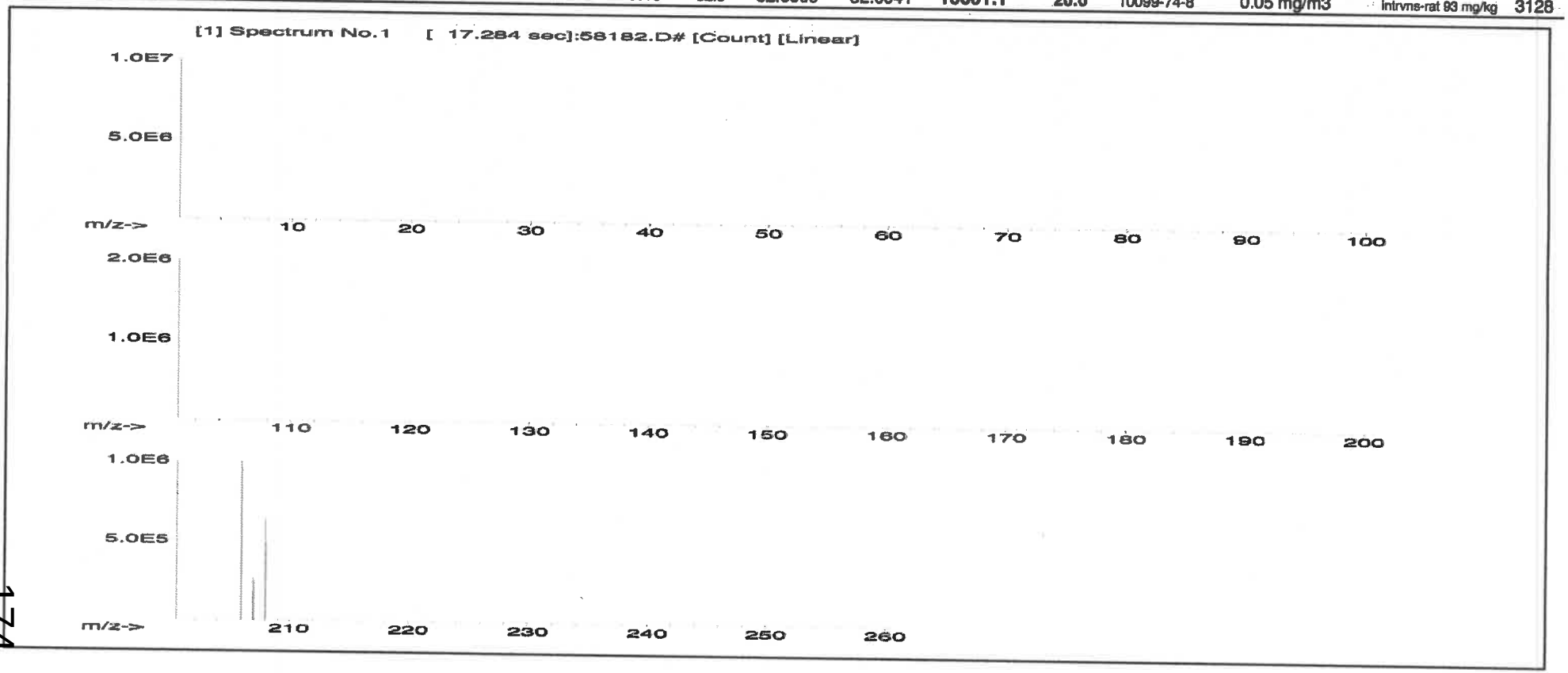
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

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 |

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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).

G/T

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

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58119
**Lot Number:** 120822
**Description:** Potassium (K)

**Expiration Date:** 120825
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 3000.4

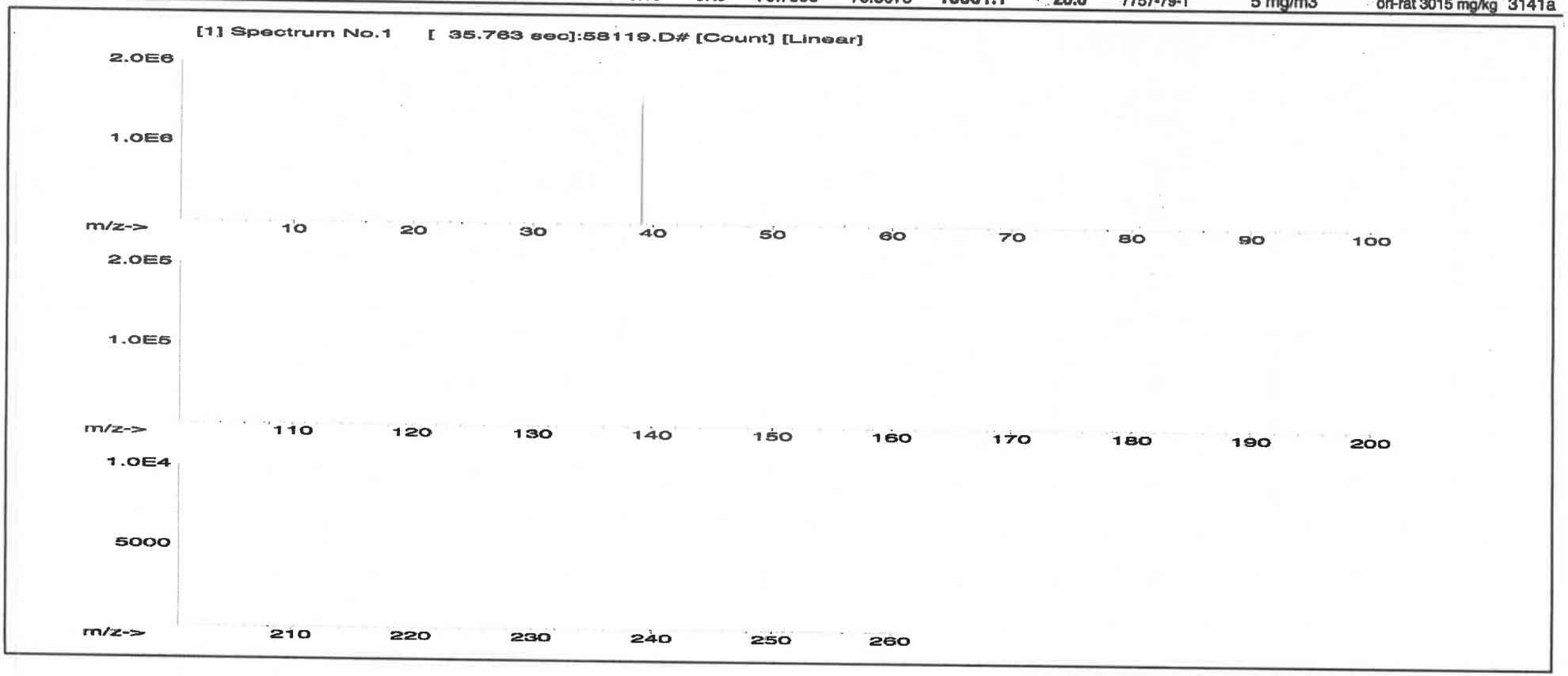
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 120822 |
| Reviewed By: | Pedro L. Rentas | 120822 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 79.7990 | 79.8075 | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

## 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 ($t$) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

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

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

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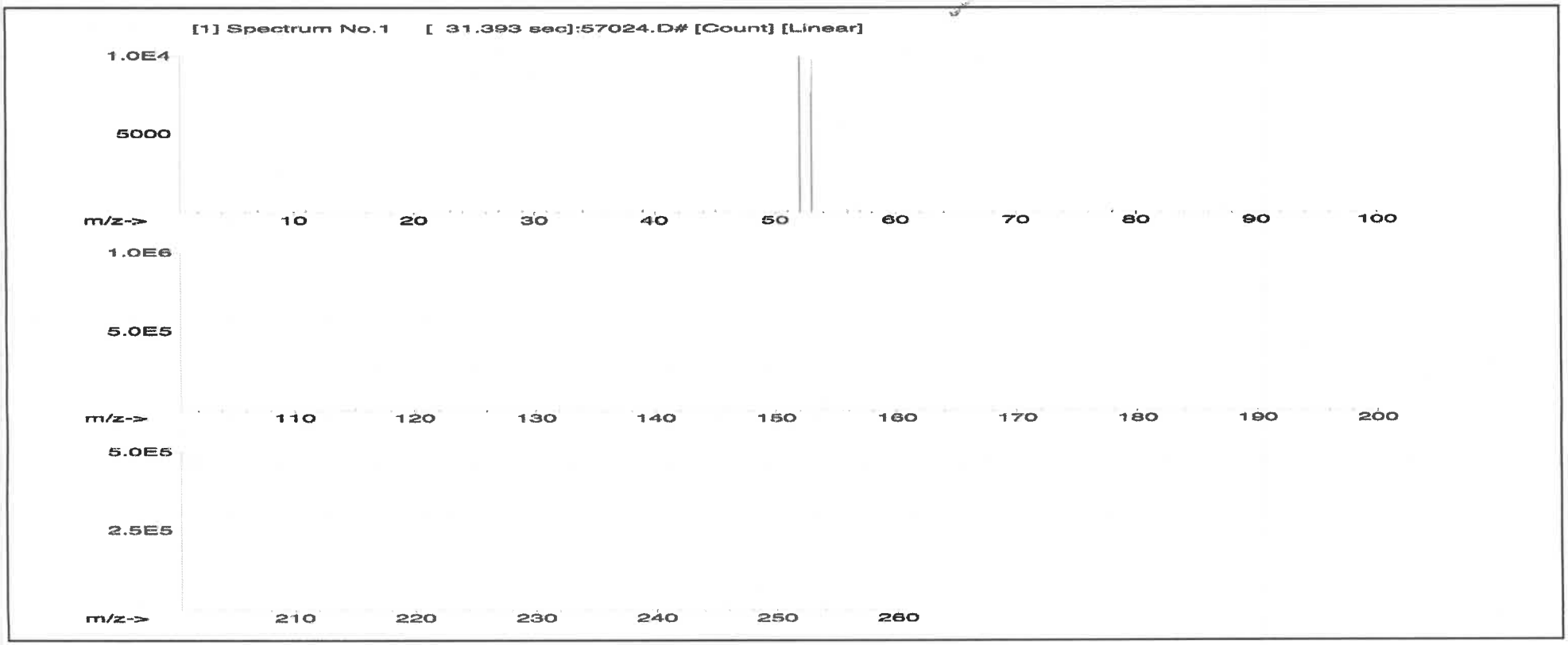
CERTIFIED WEIGHT REPORT:

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

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

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



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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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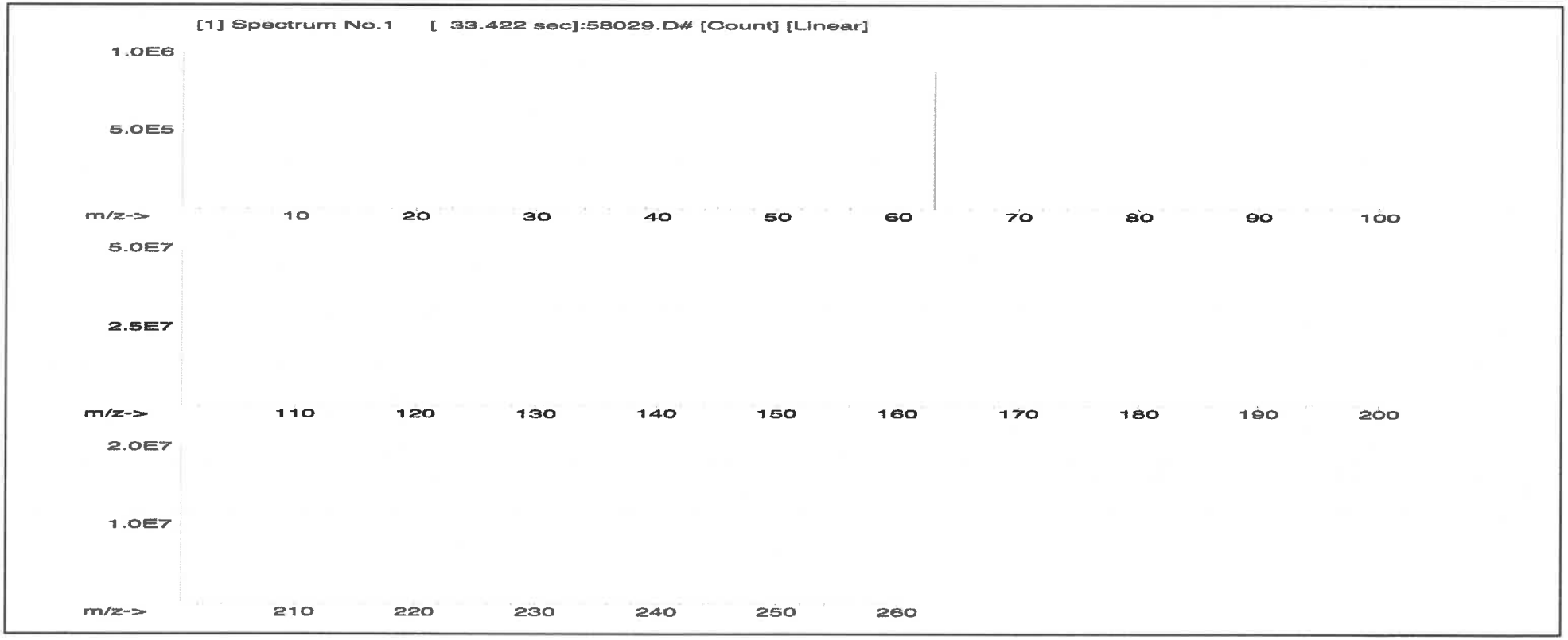
CERTIFIED WEIGHT REPORT:

| | | 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.
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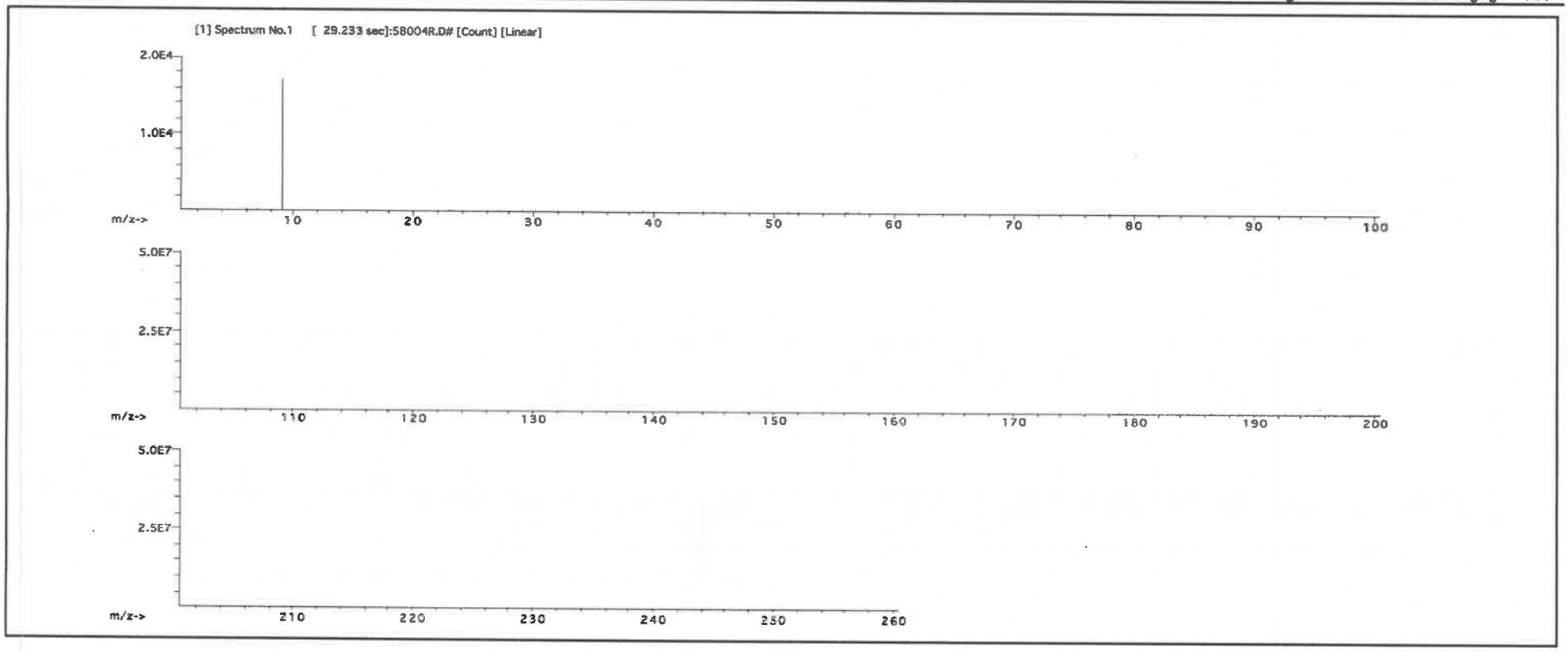
CERTIFIED WEIGHT REPORT:

| | | 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)

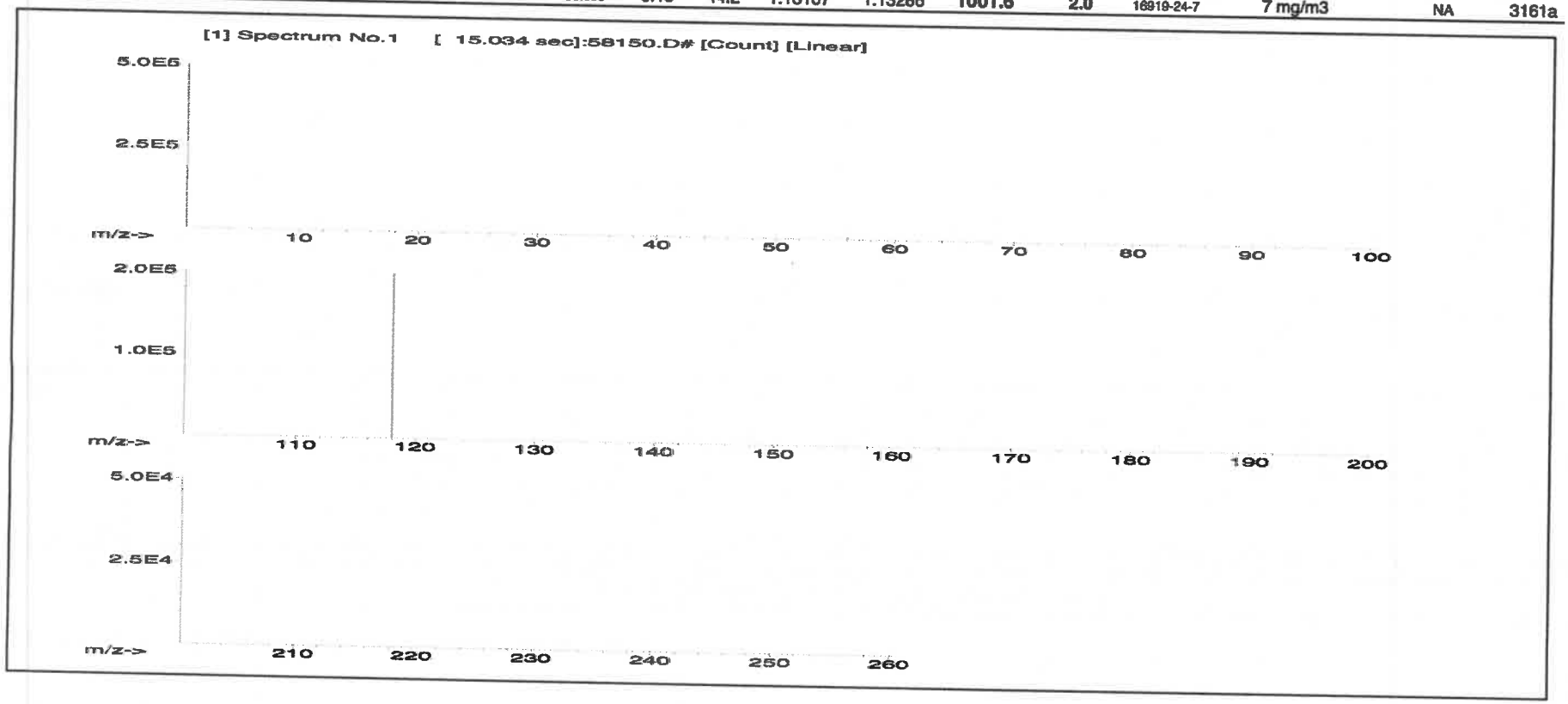
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | 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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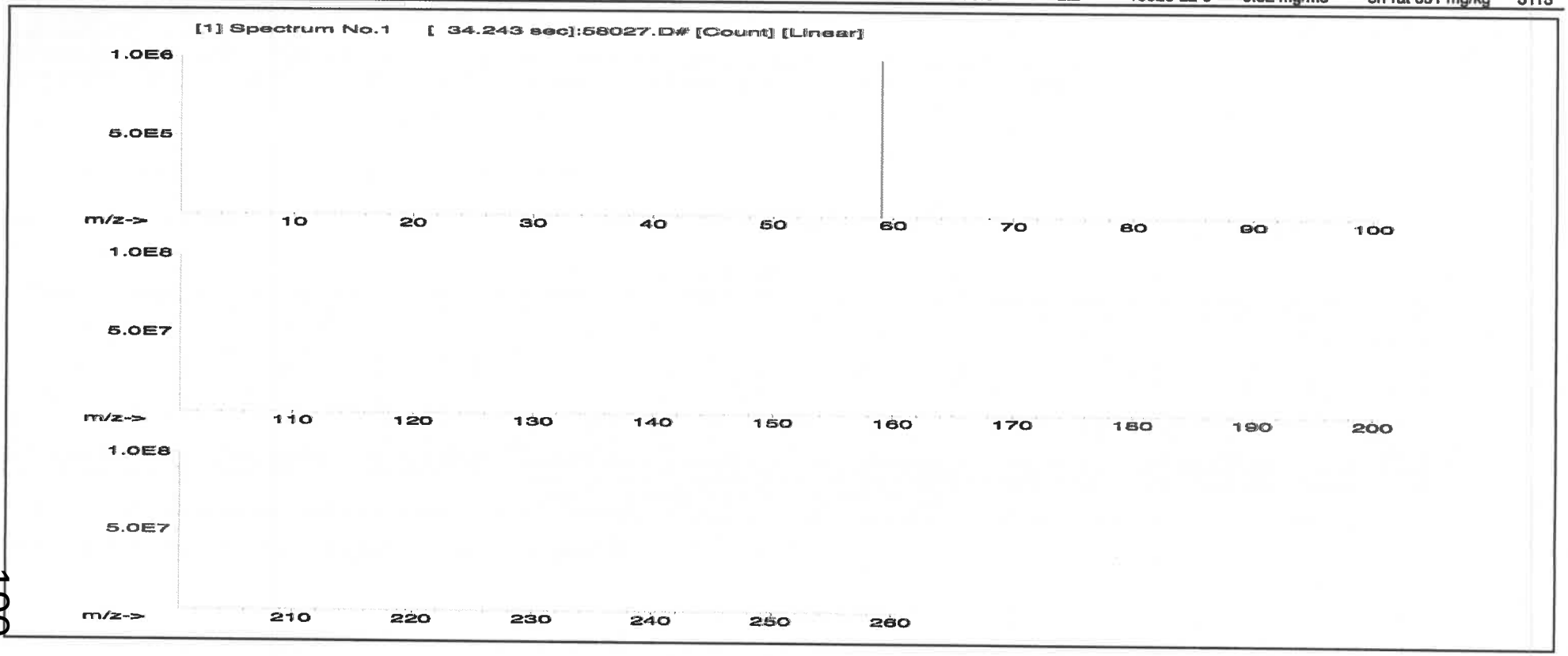
CERTIFIED WEIGHT REPORT:

| | | 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.
* 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.
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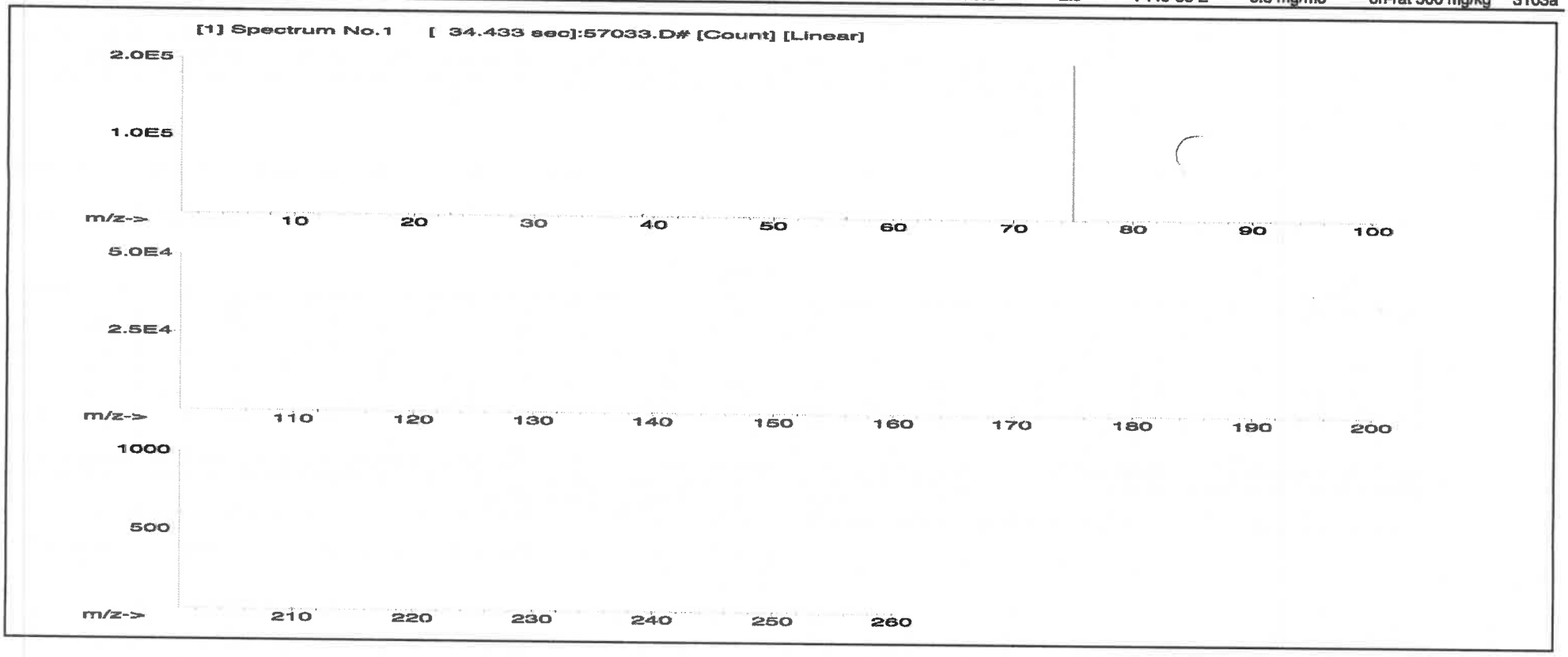
CERTIFIED **WEIGHT** REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57033** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **111323** | | | | |
| **Description:** | **Arsenic (As)** | 2.0% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 111326 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 111323 |
| Reviewed By: | Pedro L. Rentas | 111323 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Arsenic (As) | 58133 | 020522 | 0.1000 | 400.0 | 0.084 | 1000 | 10001.0 | **1000.0** | **2.0** | 7440-38-2 | 0.5 mg/m3 | orl-rat 500 mg/kg | 3103a |



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

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

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

(T) = Target analyte

**Physical Characterization:**

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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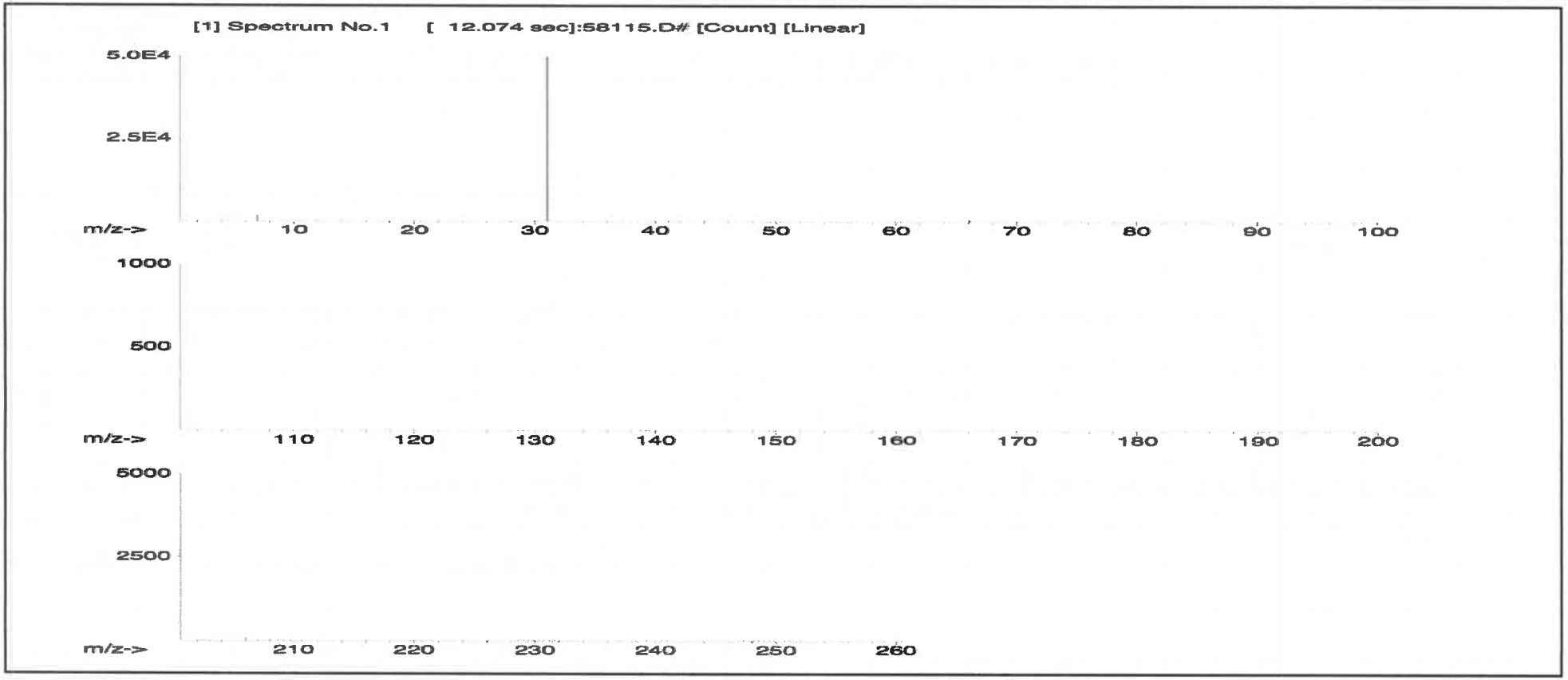
CERTIFIED WEIGHT REPORT:

| | | | 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.

* 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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CERTIFIED WEIGHT REPORT:

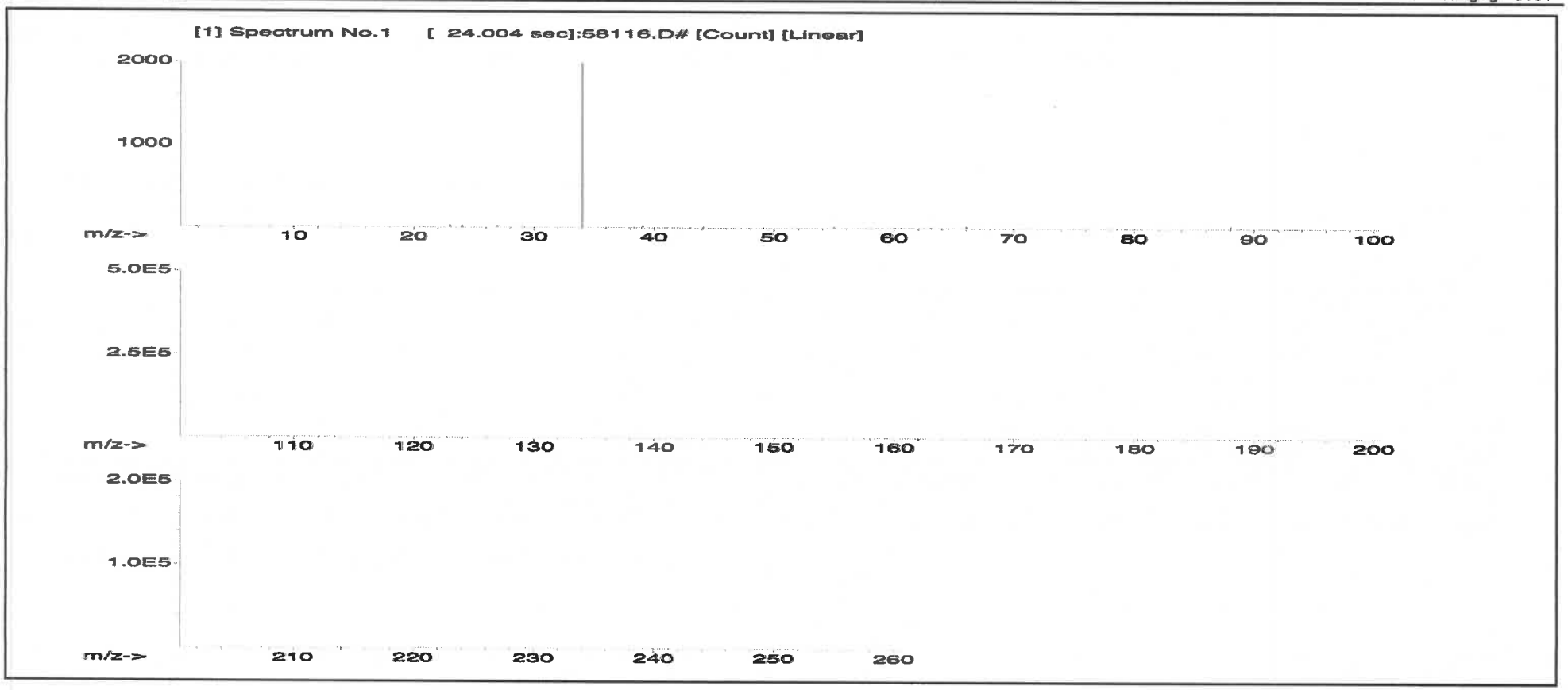
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

**Lot #**
**Solvent:** 071123 ASTM Type 1 Water

**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB 5E-05 Balance Uncertainty
**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 071123 |
| Reviewed By: | Pedro L. Rentas | 071123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 10000 | 99.9 | 0.10 | 24.3 | 82.4675 | 82.4682 | **10000.1** | **20.0** | 7783-20-2 | NA | orl-rat 4250mg/kg | 3181 |



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

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

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

(T)= Target analyte

**Physical Characterization:**

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

Certified by:

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

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

*Certified Reference Material CRM*

R: 02/09/24 M5819

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

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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

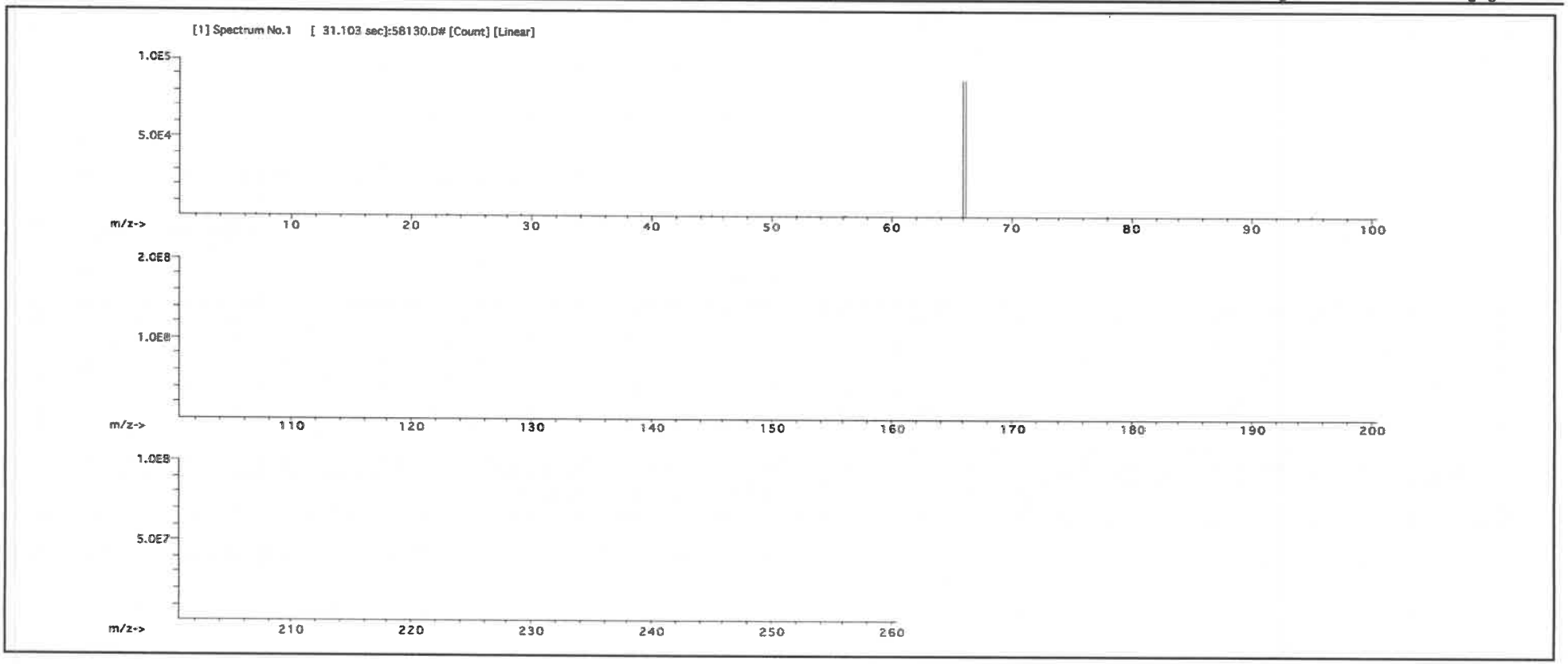
**Weight shown below was diluted to (mL):** 3000.4 0.06 Flask Uncertainty

| | | 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 |



199

**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.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

R: 02/22/24 M5942

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: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGTI1 |
| Lot Number: | T2-TI719972 |
| Matrix: | 2% (v/v) $HNO_3$<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Titanium |
| Starting Material: | Ti Metal |
| Starting Material Lot#: | 2094 |
| Starting Material Purity: | 99.9975% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1002 ± 5 µg/mL

**Density:** 1.012 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000536 | M | Eu | < | 0.000268 | O | Na | < | 0.032670 | M | Se | | 0.001204 | O | Zn | < | 0.003267 |
| O | Al | | 0.000872 | O | Fe | | 0.003225 | O | Nb | < | 0.043560 | O | Si | | 0.004735 | O | Zr | < | 0.043560 |
| M | As | < | 0.008586 | M | Ga | < | 0.000268 | M | Nd | < | 0.000268 | M | Sm | < | 0.000268 | | | | |
| M | Au | < | 0.004577 | M | Gd | < | 0.000268 | O | Ni | < | 0.010890 | M | Sn | | 0.000096 | | | | |
| O | B | < | 0.008929 | M | Ge | < | 0.002146 | M | Os | < | 0.000269 | O | Sr | | 0.000096 | | | | |
| M | Ba | < | 0.002683 | M | Hf | | 0.002161 | O | P | < | 0.054450 | M | Ta | | 0.010560 | | | | |
| M | Be | < | 0.005366 | M | Hg | < | 0.003231 | M | Pb | < | 0.001073 | M | Tb | < | 0.000268 | | | | |
| M | Bi | < | 0.001609 | M | Ho | < | 0.000268 | M | Pd | < | 0.000268 | M | Te | < | 0.001341 | | | | |
| O | Ca | | 0.000676 | M | In | < | 0.002683 | M | Pr | < | 0.000268 | M | Th | < | 0.053663 | | | | |
| M | Cd | < | 0.000268 | M | Ir | < | 0.000269 | M | Pt | < | 0.000536 | s | Ti | < | | | | | |
| M | Ce | < | 0.000268 | M | K | | 0.001172 | M | Rb | < | 0.000268 | M | Tl | < | 0.000268 | | | | |
| M | Co | < | 0.004293 | M | La | < | 0.000268 | M | Re | < | 0.000268 | M | Tm | < | 0.000268 | | | | |
| M | Cr | | 0.000752 | O | Li | < | 0.027225 | M | Rh | < | 0.000268 | M | U | < | 0.000268 | | | | |
| M | Cs | < | 0.000268 | M | Lu | < | 0.000268 | M | Ru | < | 0.000269 | M | V | < | 0.019855 | | | | |
| O | Cu | < | 0.010890 | O | Mg | < | 0.005445 | i | S | < | | M | W | | 0.000473 | | | | |
| M | Dy | < | 0.000268 | O | Mn | < | 0.003267 | M | Sb | < | 0.006976 | M | Y | < | 0.002146 | | | | |
| M | Er | < | 0.000268 | M | Mo | | 0.000774 | O | Sc | < | 0.004900 | M | Yb | < | 0.000536 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 17, 2022

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

### 11.2 Lot Expiration Date

- **June 17, 2027**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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# Certificate of Analysis

M5959 R: 6/14/24.

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 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:<br>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**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #2** | **9997 ± 50 µg/mL**<br>ICP Assay NIST SRM 3167a Lot Number: 190730 |
| **Assay Method #3** | **9984 ± 31 µg/mL**<br>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

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 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

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

***Certified Reference Material CRM***

M5961 R: 6/11/24

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

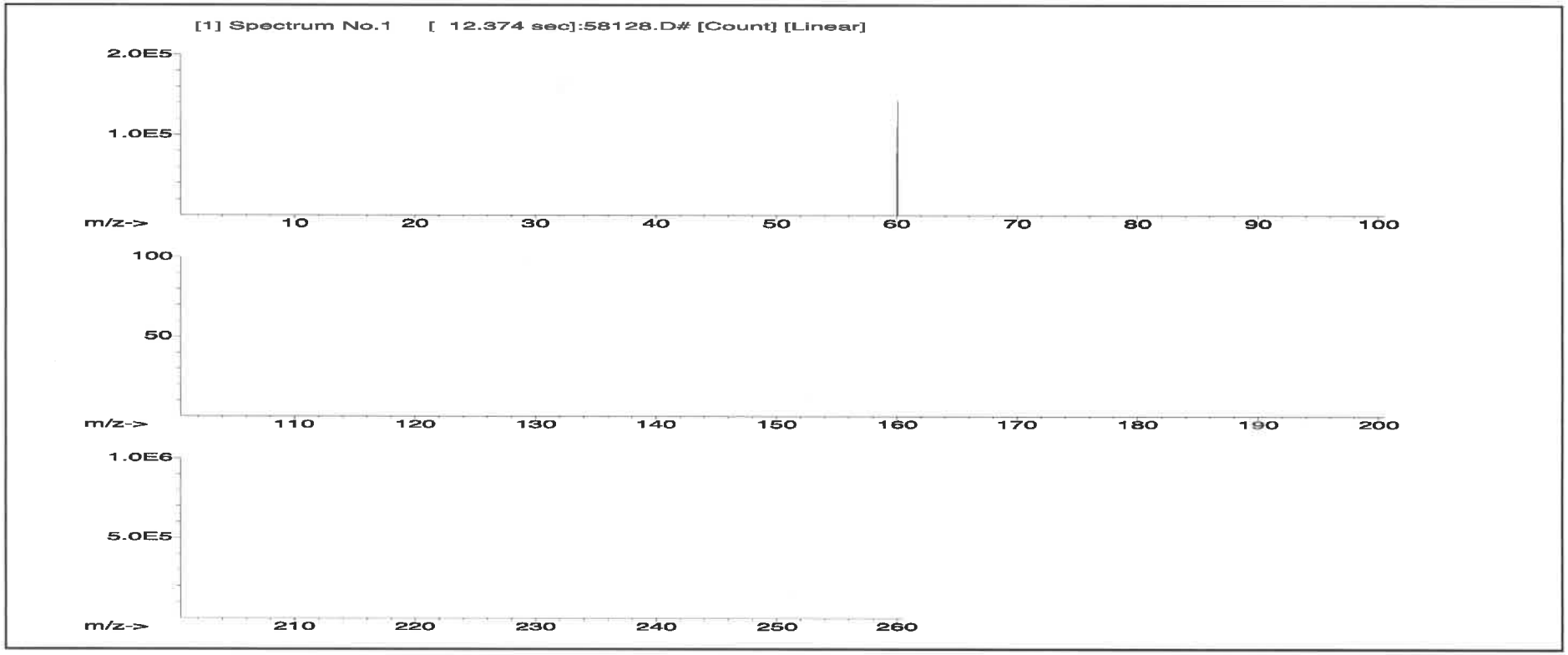


CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57028** | | **Lot #** | | |
| **Lot Number:** | **041124** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Nickel (Ni)** | | | | |
| | | 2% | 5.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 041127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 249.85 | 0.002 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Brian Geddes | 041124 |
| Reviewed By: | Pedro L. Rentas | 041124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 | NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | **1000.0** | **2.0** | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |



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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

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

***Certified Reference Material CRM***

M5962 R! 06/14/24.

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

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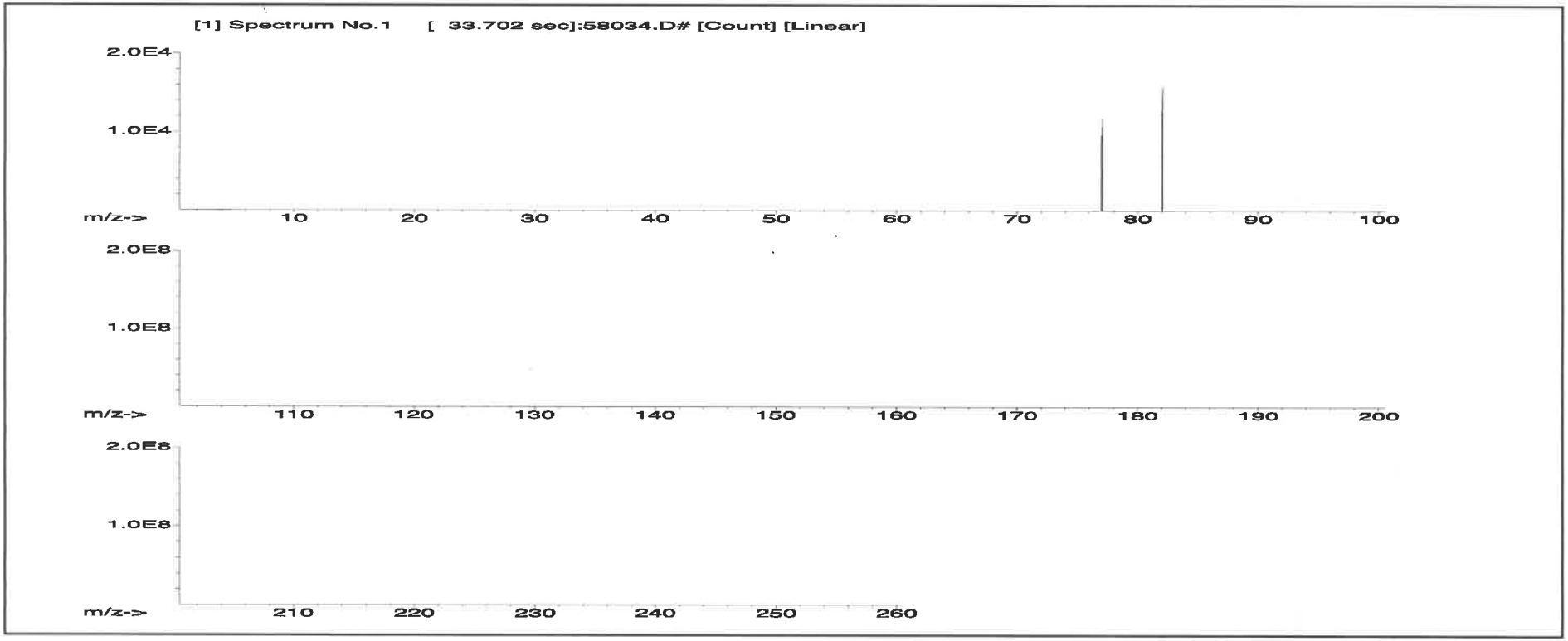
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57034** | 24002546 | Nitric Acid | |
| **Lot Number:** | **060624** | | | |
| **Description:** | **Selenium (Se)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060627 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 060624 |
| Reviewed By: | Pedro L. Rentas | 060624 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Selenium (Se) | 58134 | 071223 | 0.1000 | 200.0 | 0.084 | 1000 | 10002.5 | **1000.0** | **2.2** | 7782-49-2 | 0.2 mg/m3 | orl-rat 6700 mg/kg | 3149 |



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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

M5976, M5977
R: 02/22/24

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: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Molybdenum |
| Starting Material: | Ammonium Molybdate |
| Starting Material Lot#: | 2361 |
| Starting Material Purity: | 99.9893% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000590 | M | Eu | < | 0.000300 | M | Na | | 0.000879 | M | Se | < | 0.008000 | M | Zn | | 0.000598 |
| M | Al | | 0.000563 | M | Fe | < | 0.006500 | M | Nb | < | 0.029000 | i | Si | < | | M | Zr | < | 0.001800 |
| M | As | < | 0.002100 | M | Ga | < | 0.000300 | i | Nd | < | | M | Sm | < | 0.000300 | | | | |
| M | Au | < | 0.000300 | M | Gd | < | 0.000300 | M | Ni | < | 0.008000 | M | Sn | < | 0.008900 | | | | |
| M | B | < | 0.003300 | M | Ge | < | 0.000300 | M | Os | < | 0.000590 | M | Sr | | 0.000175 | | | | |
| M | Ba | | 0.001689 | M | Hf | < | 0.001800 | i | P | < | | M | Ta | < | 0.004200 | | | | |
| M | Be | < | 0.000890 | M | Hg | < | 0.003300 | M | Pb | < | 0.000300 | M | Tb | < | 0.000300 | | | | |
| M | Bi | < | 0.000890 | M | Ho | < | 0.000300 | M | Pd | < | 0.001800 | M | Te | < | 0.021000 | | | | |
| O | Ca | | 0.006334 | M | In | < | 0.032000 | M | Pr | < | 0.013000 | M | Th | < | 0.000300 | | | | |
| O | Cd | < | 0.026000 | M | Ir | < | 0.000300 | M | Pt | < | 0.000300 | O | Tl | < | 0.032000 | | | | |
| M | Ce | < | 0.008300 | M | K | | 0.130213 | M | Rb | | 0.004575 | M | Tl | | 0.001266 | | | | |
| M | Co | | 0.000598 | M | La | < | 0.000300 | M | Re | < | 0.000300 | M | Tm | < | 0.000300 | | | | |
| M | Cr | | 0.000527 | O | Li | | 0.000059 | M | Rh | < | 0.000300 | M | U | < | 0.005300 | | | | |
| M | Cs | | 0.000527 | M | Lu | < | 0.000300 | M | Ru | < | 0.079000 | M | V | < | 0.000890 | | | | |
| M | Cu | | 0.002252 | M | Mg | | 0.000563 | i | S | < | | M | W | | 0.087982 | | | | |
| M | Dy | < | 0.000300 | M | Mn | < | 0.005900 | M | Sb | | 0.001513 | M | Y | < | 0.000300 | | | | |
| M | Er | < | 0.000300 | s | Mo | < | | M | Sc | < | 0.001200 | M | Yb | < | 0.000300 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

**Chemical Compatibility -**Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability -** 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution) -**Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

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

**11.2 Lot Expiration Date**

**- July 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Technical

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Molybdenum |
| Starting Material: | Ammonium Molybdate |
| Starting Material Lot#: | 2361 |
| Starting Material Purity: | 99.9893% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000590 | M | Eu | < | 0.000300 | M | Na | | 0.000879 | M | Se | < | 0.008000 | M | Zn | | 0.000598 |
| M | Al | | 0.000563 | M | Fe | < | 0.006500 | M | Nb | < | 0.029000 | i | Si | < | | M | Zr | < | 0.001800 |
| M | As | < | 0.002100 | M | Ga | < | 0.000300 | i | Nd | < | | M | Sm | < | 0.000300 | | | | |
| M | Au | < | 0.000300 | M | Gd | < | 0.000300 | M | Ni | < | 0.008000 | M | Sn | < | 0.008900 | | | | |
| M | B | < | 0.003300 | M | Ge | < | 0.000300 | M | Os | < | 0.000590 | M | Sr | | 0.000175 | | | | |
| M | Ba | | 0.001689 | M | Hf | < | 0.001800 | i | P | < | | M | Ta | < | 0.004200 | | | | |
| M | Be | < | 0.000890 | M | Hg | < | 0.003300 | M | Pb | < | 0.000300 | M | Tb | < | 0.000300 | | | | |
| M | Bi | < | 0.000890 | M | Ho | < | 0.000300 | M | Pd | < | 0.001800 | M | Te | < | 0.021000 | | | | |
| O | Ca | | 0.006334 | M | In | < | 0.032000 | M | Pr | < | 0.013000 | M | Th | < | 0.000300 | | | | |
| O | Cd | < | 0.026000 | M | Ir | < | 0.000300 | M | Pt | < | 0.000300 | O | Tl | < | 0.032000 | | | | |
| M | Ce | < | 0.008300 | M | K | | 0.130213 | M | Rb | | 0.004575 | M | Tl | | 0.001266 | | | | |
| M | Co | | 0.000598 | M | La | < | 0.000300 | M | Re | < | 0.000300 | M | Tm | < | 0.000300 | | | | |
| M | Cr | | 0.000527 | O | Li | | 0.000059 | M | Rh | < | 0.000300 | M | U | < | 0.005300 | | | | |
| M | Cs | | 0.000527 | M | Lu | < | 0.000300 | M | Ru | < | 0.079000 | M | V | < | 0.000890 | | | | |
| M | Cu | | 0.002252 | M | Mg | | 0.000563 | i | S | < | | M | W | | 0.087982 | | | | |
| M | Dy | < | 0.000300 | M | Mn | < | 0.005900 | M | Sb | | 0.001513 | M | Y | < | 0.000300 | | | | |
| M | Er | < | 0.000300 | s | Mo | < | | M | Sc | < | 0.001200 | M | Yb | < | 0.000300 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

**Chemical Compatibility -**Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability -** 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution) -**Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

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

**11.2 Lot Expiration Date**

**- July 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Technical

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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M5978, M5979

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# Certificate of Analysis

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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) $HNO_3$<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>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

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

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

**11.2 Lot Expiration Date**

**- June 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

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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**<br>ICP Assay NIST SRM 3124a Lot Number: 110516 |
| **Assay Method #2** | **10035 ± 25 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #3** | **10001 ± 33 µg/mL**<br>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

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

M6074
M6075
M6076
M6077

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info@inorganicventures.com

EXP.: 9/6/2029

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-CLP-4 |
| Lot Number: | V2-MEB746762 |
| Matrix: | 3% (v/v) HNO3<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>Titanium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Boron, B | 1 000 ± 5 µg/mL | Molybdenum, Mo | 1 000 ± 5 µg/mL |
| Silicon, Si | 1 000 ± 7 µg/mL | Tin, Sn | 1 000 ± 5 µg/mL |
| Titanium, Ti | 1 000 ± 6 µg/mL | | |

**Density:** 1.033 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Mo | ICP Assay | traceable to 3134 | U2-MO739068 |
| Si | ICP Assay | Traceable to 3150 | S2-SI702546 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

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

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

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

September 06, 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

**- September 06, 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

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

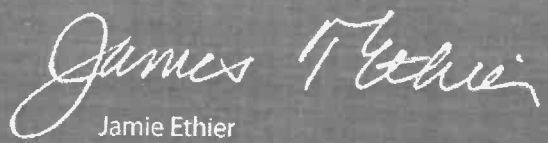
232

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

M6125 Receive -> 11/22/24

# CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

## Hydrogen Peroxide 30%, ACS

Reagent Grade

| SPECIFICATION | MAXIMUM LIMITS |
|---|---|
| Appearance | Colorless and free from suspended matter or sediment |
| Assay | 29-32% |
| Color (APHA) | 10 |
| Residue after Evaporation | 0.002% |
| Titratable Acid | 0.0006 meq/g |
| Chloride (Cl) | 3 ppm |
| Nitrate ($NO_3$) | 2 ppm |
| Phosphate | 2 ppm |
| Sulfate ($SO_4$) | 5 ppm |
| Ammonium ($NH_4$) | 5 ppm |
| Heavy Metals (as Pb) | 1 ppm |
| Iron (Fe) | 0.5 ppm |

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.7 % |
| Appearance | Passes Test | Passes Test |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Ignition | ≤ 2 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.08 ppm | < 0.03 ppm |
| Phosphate ($PO_4$) | ≤ 0.10 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.2 ppm | < 0.2 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 40.0 ppb | < 1.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 2.3 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Copper (Cu) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 20 ppb | < 10 ppb |
| Trace Impurities - Gold (Au) | ≤ 20 ppb | < 5 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | 100 ppb |
| Trace Impurities - Iron (Fe) | ≤ 40.0 ppb | < 1.0 ppb |
| Trace Impurities - Lead (Pb) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Lithium (Li) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 20 ppb | < 1 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 20.0 ppb | < 5.0 ppb |

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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CERTIFIED WEIGHT REPORT:

R → 1/13/25

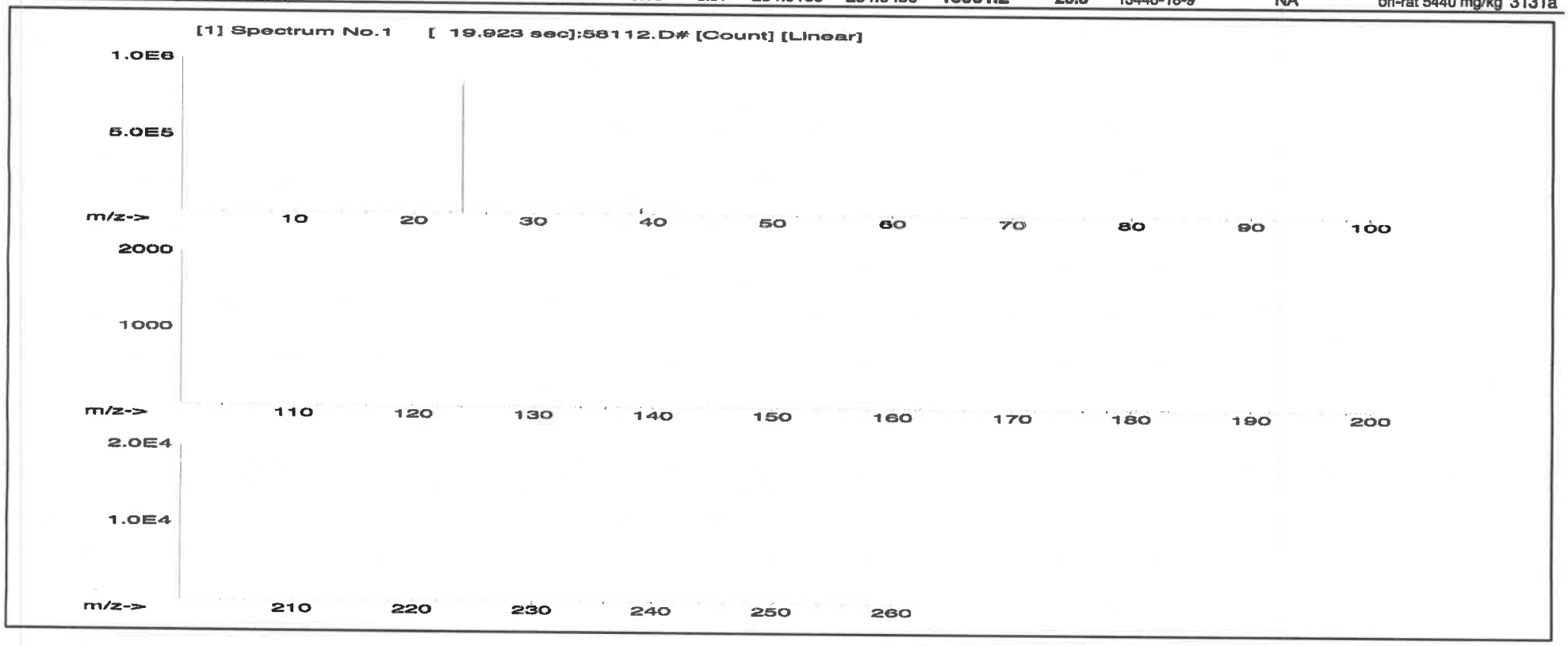
M 6127

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **58112** | | **Lot #** | |
| **Lot Number:** | **112124** | **Solvent:** | 24012496 | Nitric Acid |
| **Description:** | **Magnesium (Mg)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 112127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 112124 |
| Reviewed By: | Pedro L. Rentas | 112124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9183 | 234.9459 | **10001.2** | **20.0** | 13446-18-9 | NA | orl-rat 5440 mg/kg | 3131a |



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

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

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

(T) = Target analyte

## Physical Characterization:

Certified by:

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

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

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CERTIFIED WEIGHT REPORT:

R->1/13/25

M6128

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58025** | | **Lot #** | | |
| **Lot Number:** | **101124** | **Solvent:** | 24002546 | Nitric Acid | |
| **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 | | |

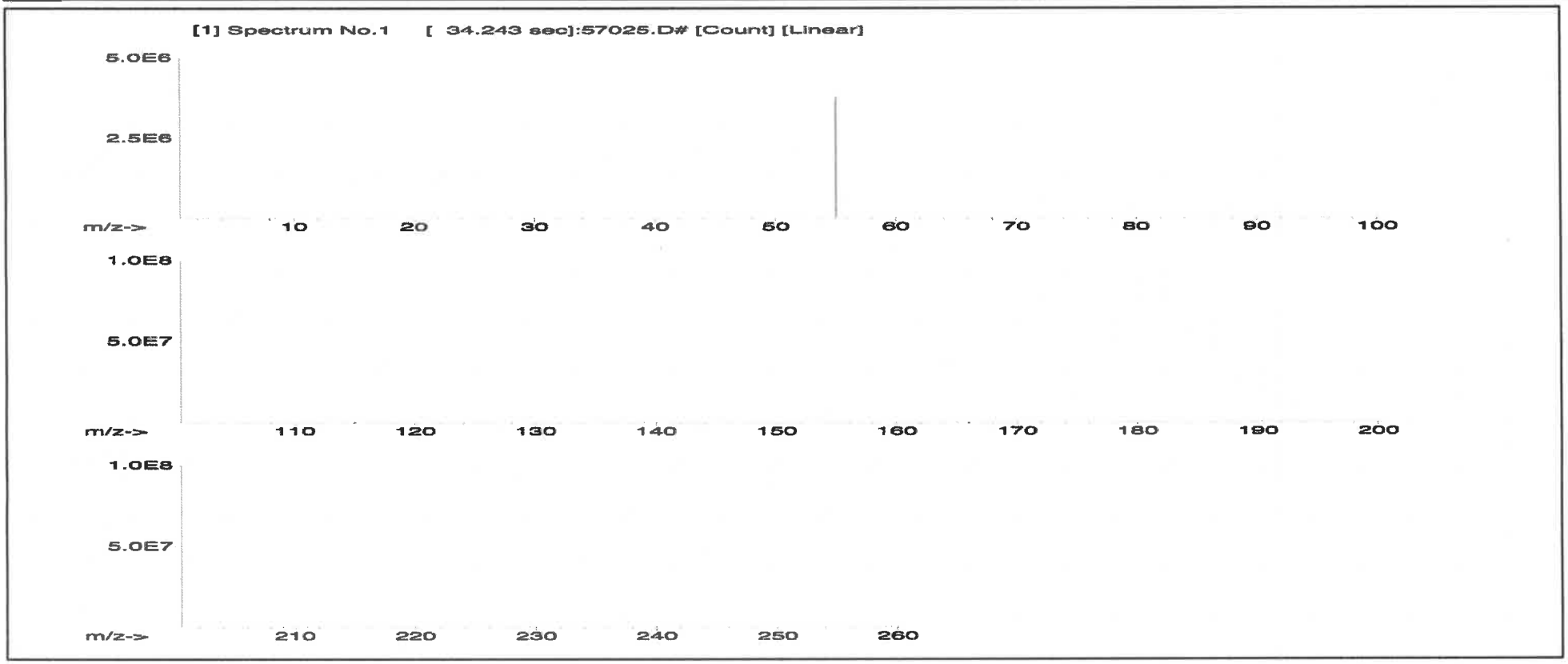
Giovanni Esposito

| | | |
|---|---|---|
| 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.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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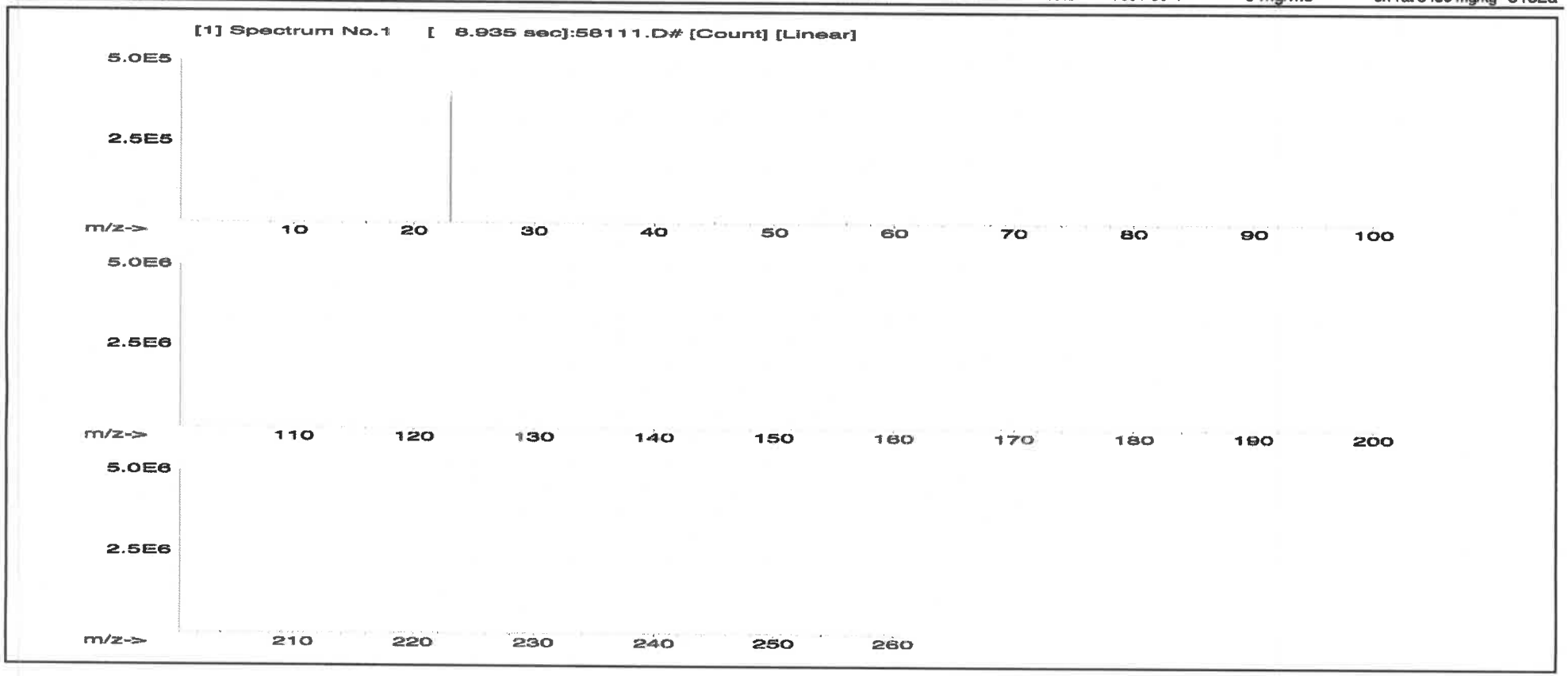
## CERTIFIED WEIGHT REPORT:

R->1/13/25

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **072424** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | | | | |
| | | MG144 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072427 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.2 | 0.10 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 072424 |
| Reviewed By: | Pedro L. Rentas | 072424 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 148.7096 | ###### | **10000.0** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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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 | |

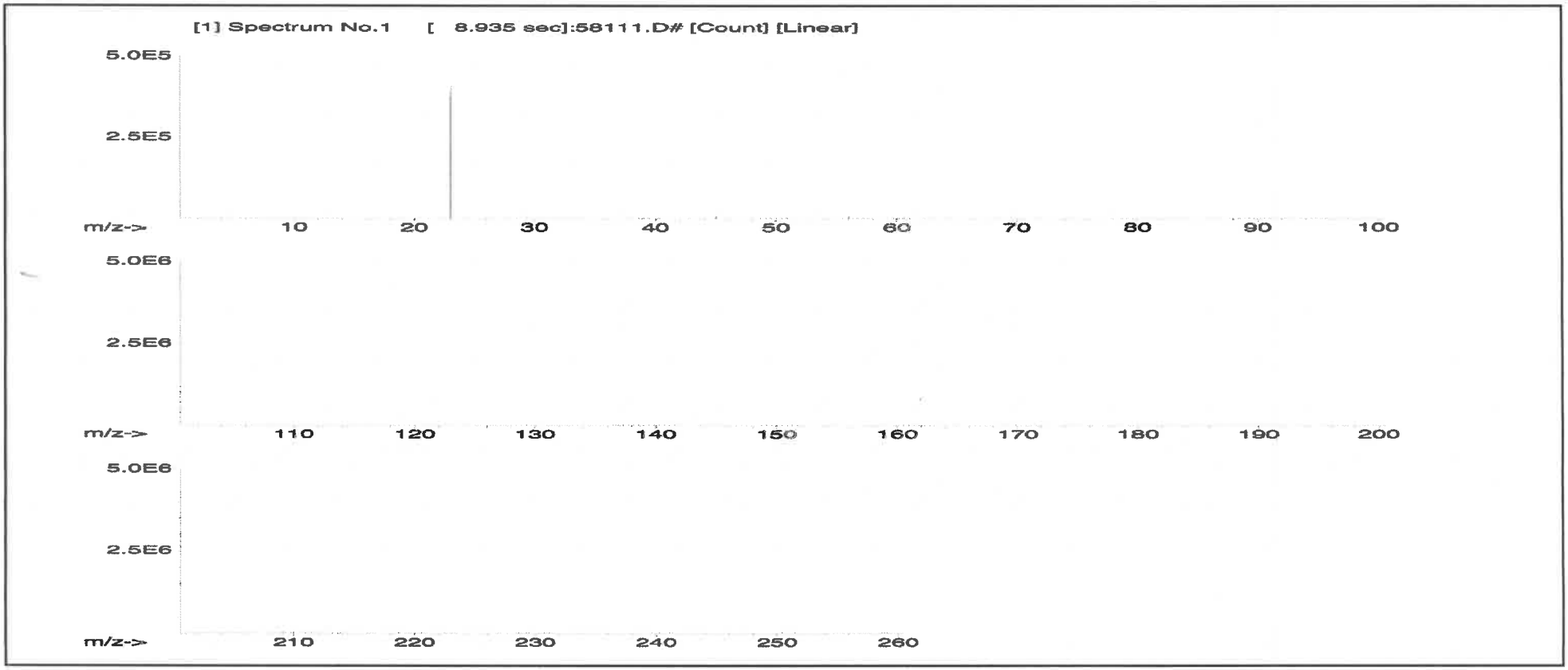
Aleah O'Brady

| Formulated By: | Aleah O'Brady | 122223 |
|---|---|---|

Pedro Rentas

| 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.
* 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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R: 01/03/24 M5802, M5803

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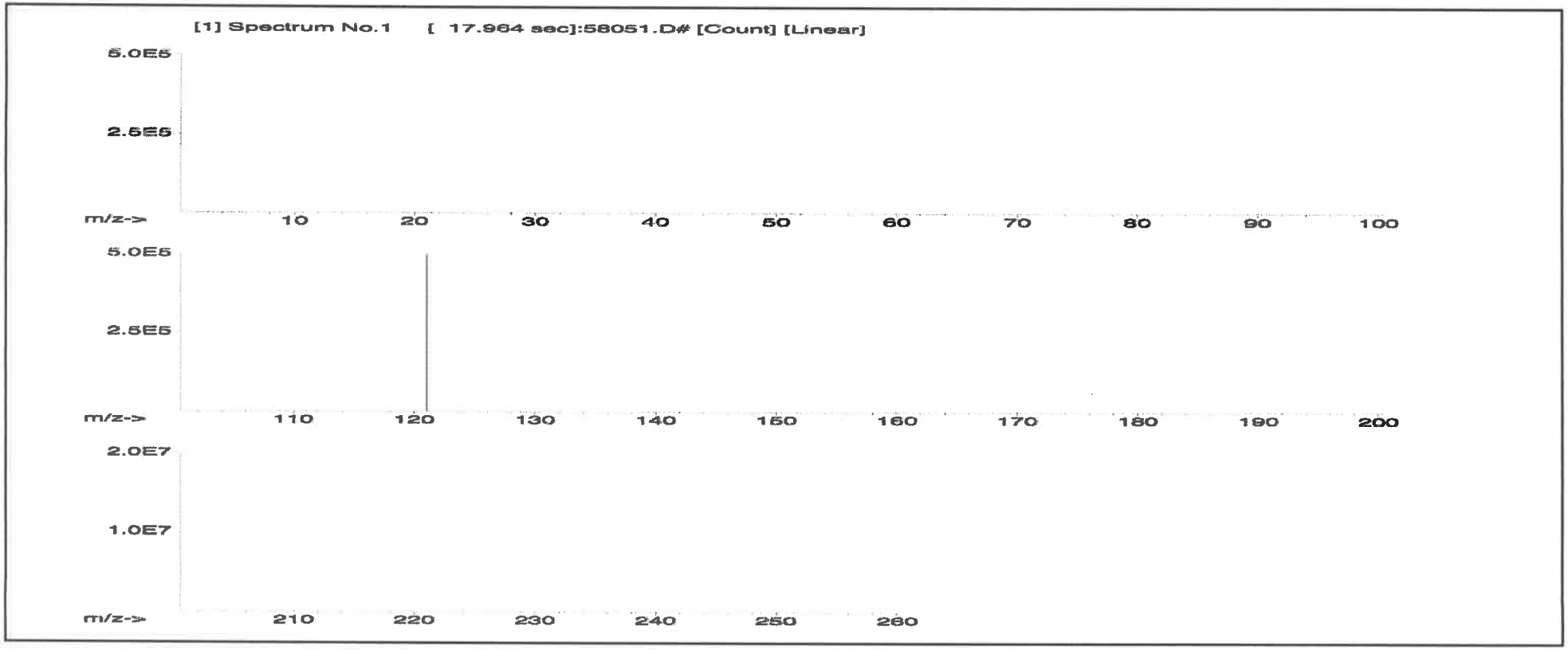
CERTIFIED WEIGHT REPORT:

| | | 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:**

* 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***

M6030

R: 8/5/24

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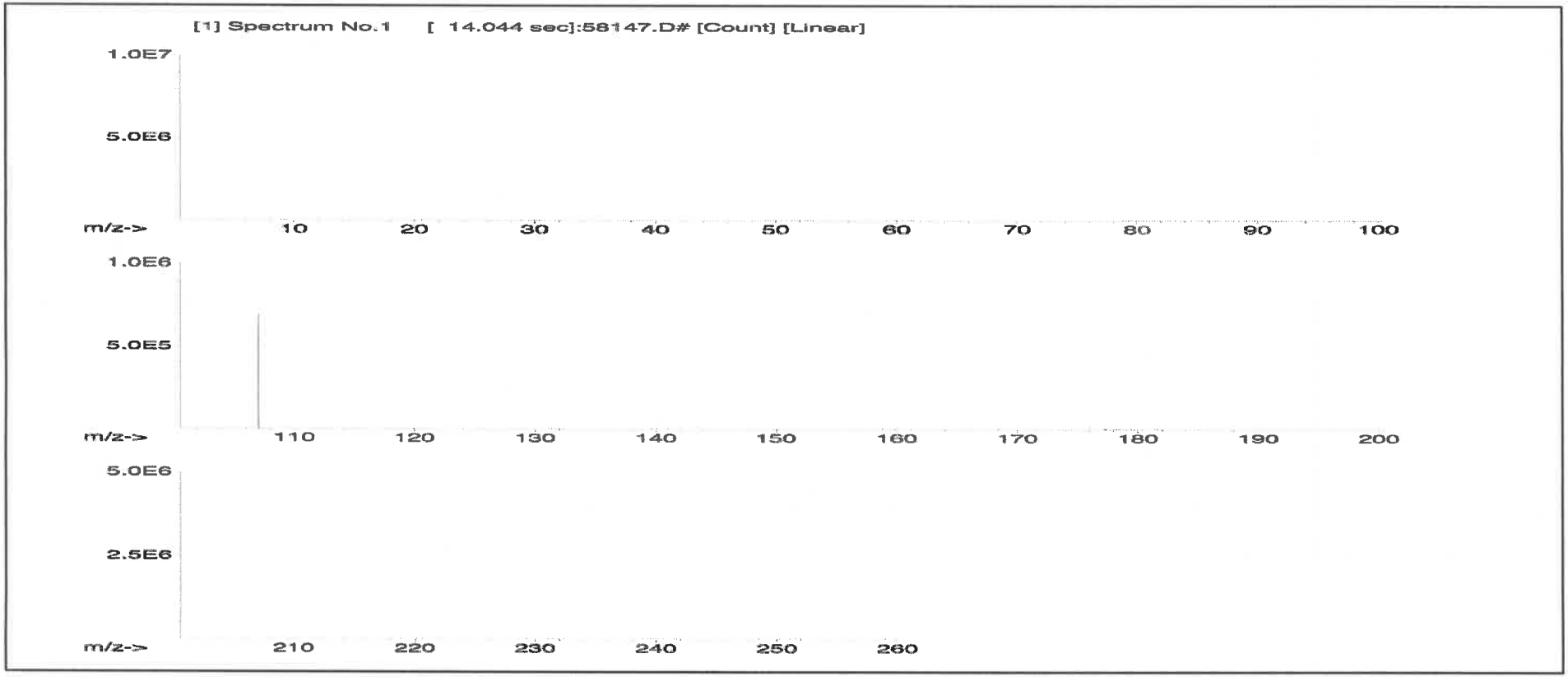
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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 |



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

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

(T)= Target analyte

**Physical Characterization:**

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

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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# Certificate of Analysis

R: 8/5/24 M6019

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 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**<br>ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985 |
| **Assay Method #2** | **1001 ± 3 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #3** | **1001 ± 2 µg/mL**<br>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.**
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www.absolutestandards.com

***Certified Reference Material CRM***

R: 03/16/23 M5473, M5474, M5475, M5476

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AR-1539 Certificate Number
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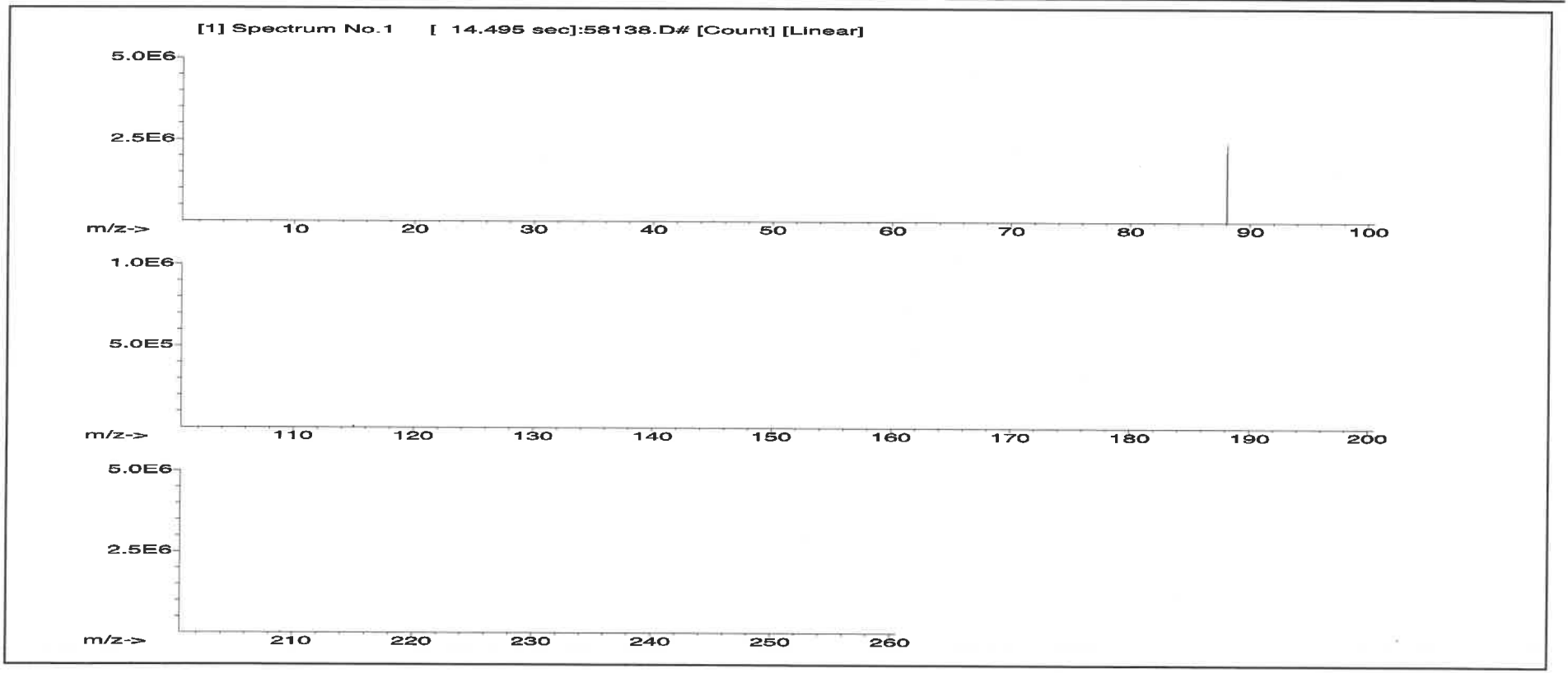
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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).

**Absolute Standards, Inc.**
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***Certified Reference Material CRM***

R ! 8/5/24

M6023

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AR-1539 Certificate Number
https://Absolutestandards.com

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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 | | |

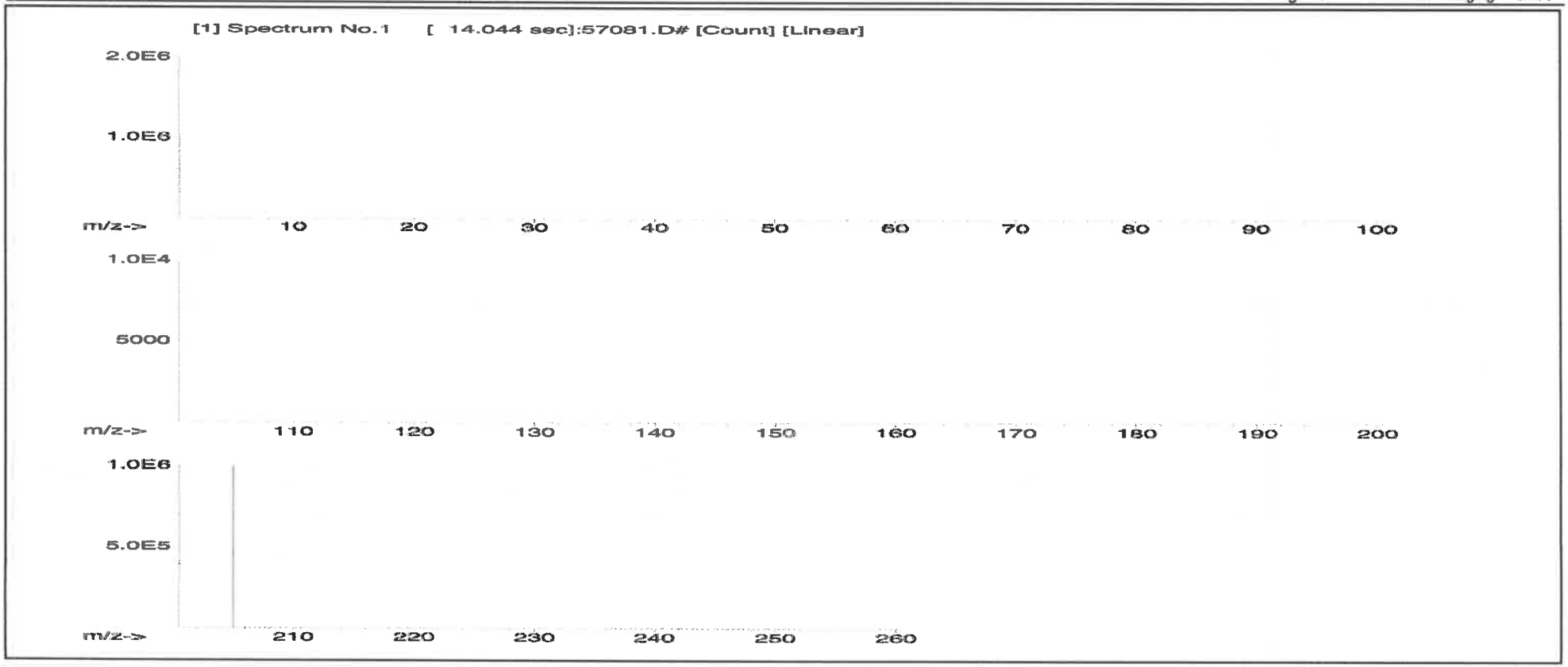
Aleah O'Brady

| | | |
|---|---|---|
| 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 |



257

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

**Absolute Standards, Inc.**
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www.absolutestandards.com

***Certified Reference Material CRM***

M6021

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

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 | |

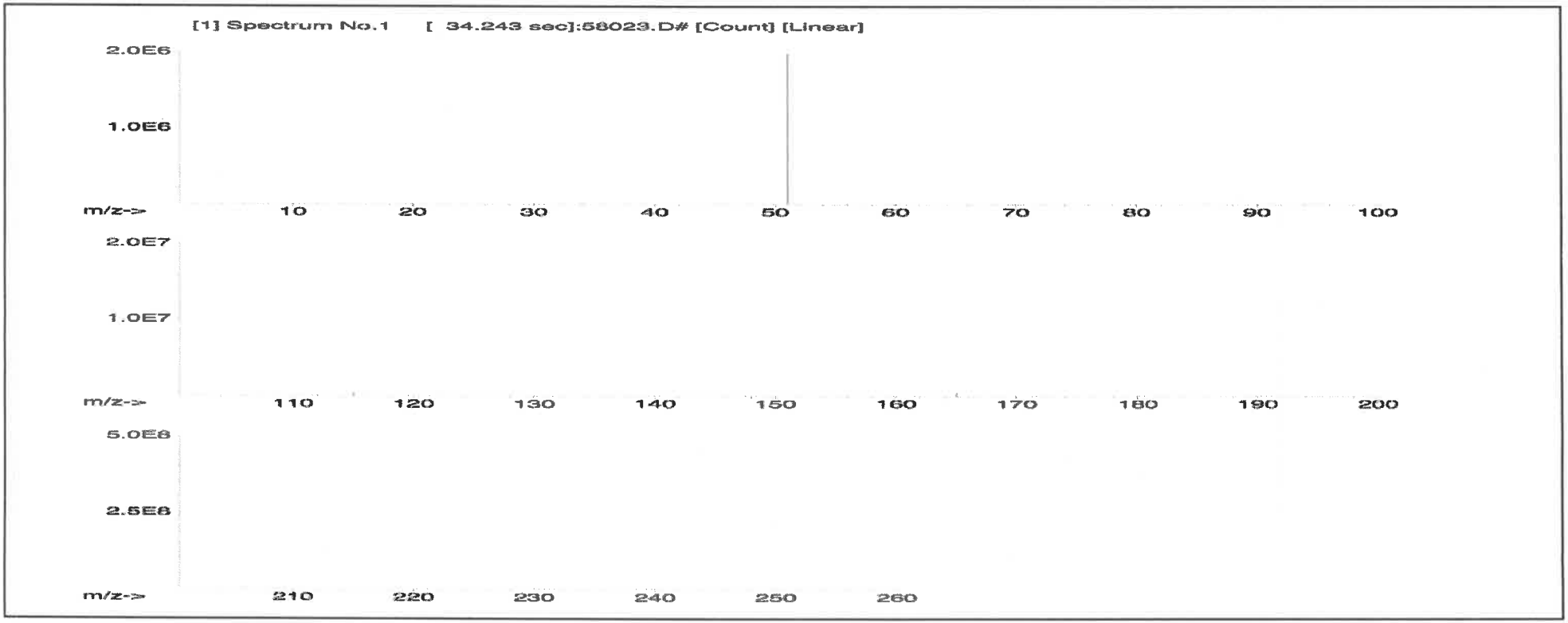
Aleah O'Brady

| 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 |



259

**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

**Soil/Sludge Metals Preparation Sheet**

PB166301

**SOP ID :** M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

**SDG No :** YE8C9

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #3 2. N/A

**Start Digest Date:** 01/28/2025 **Time :** 13:05 **Temp :** 96 °C

**End Digest Date:** 01/28/2025 **Time :** 15:10 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. #3

**Dig Technician Signature:** SKS.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.00 | MP84063 |
| Spike Sol 6 | 1.00 | 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 | 10.00 | MP84041 |
| Conc. HNO3 | 5.00 | M6126 |
| 30% H2O2 | 3.00 | M6125 |
| Conc. HCL | 10.00 | M6121 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK #3 CELL #35 : 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 01/28/25 16:10 | SKS. mob dis. | [illegible] |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB166301**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB166301BL | PBS301 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | N/A | 1 |
| PB166301BS | LCS301 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | MP84063 | 2 |
| Q1159-01 | YE8C9 | N/A | 1.08 | 100 | Brown | Yellow | Medium | N/A | N/A | 3 |
| Q1159-02 | YE8C9D | N/A | 1.09 | 100 | Brown | Yellow | Medium | N/A | N/A | 4 |
| Q1159-03 | YE8C9S | N/A | 1.13 | 100 | Brown | Yellow | Medium | N/A | MP84070 | 5 |
| Q1159-04 | YE8D1 | N/A | 1.11 | 100 | Brown | Yellow | Medium | N/A | N/A | 6 |
| Q1159-05 | YE8D3 | N/A | 1.21 | 100 | Black | Yellow | Medium | N/A | N/A | 7 |
| Q1159-06 | YE8E2 | N/A | 1.37 | 100 | Brown | Yellow | Medium | N/A | N/A | 8 |

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

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134475

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 1/30/2025 3:36:15 PM |
| Supervise By | Mohan Bera | Supervise On | 1/31/2025 7:33:47 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206 |
| ICV Standard | MP84213 |
| CCV Standard | MP84216 |
| ICSA Standard | MP84214,MP84215 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84218,MP84219 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 01/29/25 14:56 | | Kareem | OK |
| 2 | S1 | S01 | CAL2 | 01/29/25 15:00 | | Kareem | OK |
| 3 | S2 | S02 | CAL3 | 01/29/25 15:04 | | Kareem | OK |
| 4 | S3 | S03 | CAL4 | 01/29/25 15:08 | | Kareem | OK |
| 5 | S4 | S04 | CAL5 | 01/29/25 15:12 | | Kareem | OK |
| 6 | S5 | S05 | CAL6 | 01/29/25 15:16 | | Kareem | OK |
| 7 | S6 | S06 | CAL7 | 01/29/25 15:21 | | Kareem | OK |
| 8 | ICV005 | ICV005 | ICV | 01/29/25 15:31 | Inst. paused for calibration review | Kareem | OK |
| 9 | ICB005 | ICB005 | ICB | 01/29/25 15:35 | | Kareem | OK |
| 10 | ICSA005 | ICSA005 | ICSA | 01/29/25 15:41 | Inst. paused for review | Kareem | OK |
| 11 | ICSAB005 | ICSAB005 | ICSAB | 01/29/25 15:45 | | Kareem | OK |
| 12 | CCV028 | CCV028 | CCV | 01/29/25 15:49 | | Kareem | OK |
| 13 | CCB028 | CCB028 | CCB | 01/29/25 15:53 | | Kareem | OK |
| 14 | Q1136-02 | YE8F7 | SAM | 01/29/25 15:58 | | Kareem | OK |
| 15 | Q1136-03 | YE8F7D | DUP | 01/29/25 16:01 | | Kareem | OK |
| 16 | Q1136-02L | YE8F7L | SD | 01/29/25 16:05 | | Kareem | OK |
| 17 | Q1136-04 | YE8F7S | MS | 01/29/25 16:09 | MS fail for Cd,Co,Pb,Ni,Ag,Tl | Kareem | OK |
| 18 | Q1151-01DL | MC0AZ0 | SAM | 01/29/25 16:13 | 20x for Cr,Co,Ni, Still Co,Ni high | Kareem | Dilution |

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

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134475

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 1/30/2025 3:36:15 PM |
| Supervise By | Mohan Bera | Supervise On | 1/31/2025 7:33:47 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206 |
| ICV Standard | MP84213 |
| CCV Standard | MP84216 |
| ICSA Standard | MP84214,MP84215 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84218,MP84219 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1151-02DL | MC0AZ1 | SAM | 01/29/25 16:18 | 5x for Co,Ni | Kareem | Confirms |
| 20 | Q1159-01 | YE8C9 | SAM | 01/29/25 16:21 | | Kareem | OK |
| 21 | Q1151-01DL2 | MC0AZ0 | SAM | 01/29/25 16:25 | 40x for Co,Ni | Kareem | Confirms |
| 22 | Q1159-02 | YE8C9D | DUP | 01/29/25 16:29 | | Kareem | OK |
| 23 | Q1159-01L | YE8C9L | SD | 01/29/25 16:33 | | Kareem | OK |
| 24 | Q1159-03 | YE8C9S | MS | 01/29/25 16:38 | | Kareem | OK |
| 25 | Q1159-04 | YE8D1 | SAM | 01/29/25 16:42 | | Kareem | OK |
| 26 | Q1159-05 | YE8D3 | SAM | 01/29/25 16:46 | | Kareem | OK |
| 27 | Q1159-06 | YE8E2 | SAM | 01/29/25 16:50 | | Kareem | OK |
| 28 | PB166301BL | PBS301 | MB | 01/29/25 16:54 | | Kareem | OK |
| 29 | PB166301BS | LCS301 | LCS | 01/29/25 16:58 | | Kareem | OK |
| 30 | CCV029 | CCV029 | CCV | 01/29/25 17:02 | | Kareem | OK |
| 31 | CCB029 | CCB029 | CCB | 01/29/25 17:06 | | Kareem | OK |
| 32 | Q1136-02A | YE8F7A | PS | 01/29/25 17:49 | PS for Cd,Co,Pb,Ni,Tl(0.01 ML MP84292, 0.02 ML MP84296, 0.02 ML MP84294, 0.002 ML M5961, 0.005 ML MP84293) | Kareem | OK |
| 33 | CCV030 | CCV030 | CCV | 01/29/25 18:01 | | Kareem | OK |
| 34 | CCB030 | CCB030 | CCB | 01/29/25 18:06 | | Kareem | OK |

EPA SAMPLE NO.

YE8C9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-01

% Solids: 86.4 Date Received: 01/22/2025

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.55 | J | 02/06/2025 | 1329 |
| 7440-38-2 | Arsenic | 26 | | 02/06/2025 | 1329 |
| 7440-39-3 | Barium | 120 | | 02/06/2025 | 1329 |
| 7440-41-7 | Beryllium | 0.48 | | 02/06/2025 | 1329 |
| 7440-43-9 | Cadmium | 0.47 | U | 02/06/2025 | 1329 |
| 7440-47-3 | Chromium | 23 | | 02/06/2025 | 1329 |
| 7440-48-4 | Cobalt | 13 | | 02/06/2025 | 1329 |
| 7440-50-8 | Copper | 45 | | 02/06/2025 | 1329 |
| 7439-92-1 | Lead | 11 | | 02/06/2025 | 1329 |
| 7439-96-5 | Manganese | 230 | | 02/06/2025 | 1329 |
| 7440-02-0 | Nickel | 34 | | 02/06/2025 | 1329 |
| 7782-49-2 | Selenium | 2.4 | U* | 02/06/2025 | 1329 |
| 7439-98-7 | Molybdenum | 0.56 | J | 02/06/2025 | 1329 |
| 7440-22-4 | Silver | 0.19 | J | 02/06/2025 | 1329 |
| 7440-28-0 | Thallium | 0.10 | J | 02/06/2025 | 1329 |
| 7440-62-2 | Vanadium | 29 | | 02/06/2025 | 1329 |
| 7440-66-6 | Zinc | 61 | | 02/06/2025 | 1329 |
| 7440-24-6 | Strontium | 27 | JD | 02/11/2025 | 1435 |

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

Comments:

EPA SAMPLE NO.

YE8D1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-04

% Solids: 93.3 Date Received: 01/23/2025

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.70 | J | 02/12/2025 | 1538 |
| 7440-38-2 | Arsenic | 33 | | 02/12/2025 | 1538 |
| 7440-39-3 | Barium | 40 | | 02/12/2025 | 1538 |
| 7440-41-7 | Beryllium | 0.21 | J | 02/12/2025 | 1538 |
| 7440-43-9 | Cadmium | 0.34 | J | 02/12/2025 | 1538 |
| 7440-47-3 | Chromium | 27 | | 02/12/2025 | 1538 |
| 7440-48-4 | Cobalt | 20 | | 02/12/2025 | 1538 |
| 7440-50-8 | Copper | 67 | | 02/12/2025 | 1538 |
| 7439-92-1 | Lead | 13 | | 02/12/2025 | 1538 |
| 7439-96-5 | Manganese | 440 | | 02/12/2025 | 1538 |
| 7440-02-0 | Nickel | 70 | | 02/12/2025 | 1538 |
| 7782-49-2 | Selenium | 1.5 | J* | 02/12/2025 | 1538 |
| 7439-98-7 | Molybdenum | 1.5 | J | 02/12/2025 | 1538 |
| 7440-22-4 | Silver | 0.24 | J | 02/12/2025 | 1538 |
| 7440-28-0 | Thallium | 0.28 | J | 02/12/2025 | 1538 |
| 7440-62-2 | Vanadium | 29 | | 02/12/2025 | 1538 |
| 7440-66-6 | Zinc | 110 | | 02/12/2025 | 1538 |
| 7440-24-6 | Strontium | 23 | J | 02/12/2025 | 1538 |

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

Comments:

EPA SAMPLE NO.

YE8D3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-05

% Solids: 91.9 Date Received: 01/23/2025

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 2.8 | | 02/12/2025 | 1541 |
| 7440-38-2 | Arsenic | 170 | | 02/12/2025 | 1541 |
| 7440-39-3 | Barium | 28 | | 02/12/2025 | 1541 |
| 7440-41-7 | Beryllium | 0.23 | J | 02/12/2025 | 1541 |
| 7440-43-9 | Cadmium | 0.23 | J | 02/12/2025 | 1541 |
| 7440-47-3 | Chromium | 3.2 | | 02/12/2025 | 1541 |
| 7440-48-4 | Cobalt | 21 | | 02/12/2025 | 1541 |
| 7440-50-8 | Copper | 97 | | 02/12/2025 | 1541 |
| 7439-92-1 | Lead | 23 | | 02/12/2025 | 1541 |
| 7439-96-5 | Manganese | 570 | | 02/12/2025 | 1541 |
| 7440-02-0 | Nickel | 88 | | 02/12/2025 | 1541 |
| 7782-49-2 | Selenium | 2.5 | * | 02/12/2025 | 1541 |
| 7439-98-7 | Molybdenum | 1.5 | J | 02/12/2025 | 1541 |
| 7440-22-4 | Silver | 1.0 | | 02/12/2025 | 1541 |
| 7440-28-0 | Thallium | 0.16 | J | 02/12/2025 | 1541 |
| 7440-62-2 | Vanadium | 3.5 | | 02/12/2025 | 1541 |
| 7440-66-6 | Zinc | 62 | | 02/12/2025 | 1541 |
| 7440-24-6 | Strontium | 320 | | 02/12/2025 | 1541 |

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

Comments:

EPA SAMPLE NO.

YE8E2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : 3152.0 SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-06

% Solids: 93.1 Date Received: 01/23/2025

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 0.38 | J | 02/12/2025 | 1545 |
| 7440-38-2 | Arsenic | 4.8 | | 02/12/2025 | 1545 |
| 7440-39-3 | Barium | 22 | | 02/12/2025 | 1545 |
| 7440-41-7 | Beryllium | 0.090 | J | 02/12/2025 | 1545 |
| 7440-43-9 | Cadmium | 0.48 | U | 02/12/2025 | 1545 |
| 7440-47-3 | Chromium | 4.5 | | 02/12/2025 | 1545 |
| 7440-48-4 | Cobalt | 5.7 | | 02/12/2025 | 1545 |
| 7440-50-8 | Copper | 34 | | 02/12/2025 | 1545 |
| 7439-92-1 | Lead | 9.1 | | 02/12/2025 | 1545 |
| 7439-96-5 | Manganese | 72 | | 02/12/2025 | 1545 |
| 7440-02-0 | Nickel | 17 | | 02/12/2025 | 1545 |
| 7782-49-2 | Selenium | 0.48 | J* | 02/12/2025 | 1545 |
| 7439-98-7 | Molybdenum | 1.7 | J | 02/12/2025 | 1545 |
| 7440-22-4 | Silver | 0.095 | J | 02/12/2025 | 1545 |
| 7440-28-0 | Thallium | 0.11 | J | 02/12/2025 | 1545 |
| 7440-62-2 | Vanadium | 3.1 | | 02/12/2025 | 1545 |
| 7440-66-6 | Zinc | 74 | | 02/12/2025 | 1545 |
| 7440-24-6 | Strontium | 6.5 | J | 02/12/2025 | 1545 |

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

Comments:

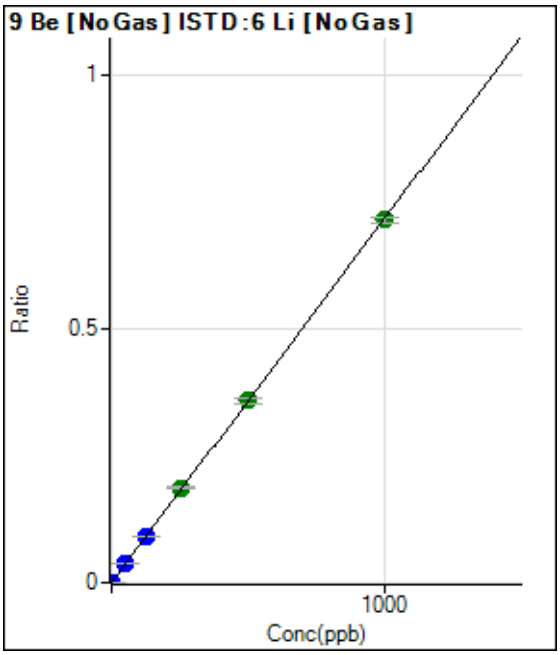
Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

# Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020625MS.b\
Analysis File: P8020625MS.batch.bin
DA Date-Time: 2025-02-06 19:18:37
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2025-02-06 12:08:54 |
| 2 | 005CALS.d | S02 | 2025-02-06 12:12:13 |
| 3 | 006CALB.d | S03 | 2025-02-06 12:15:34 |
| 4 | 007CALS.d | S04 | 2025-02-06 12:18:35 |
| 5 | 008CALS.d | S05 | 2025-02-06 12:21:31 |
| 6 | 009CALS.d | S06 | 2025-02-06 12:24:18 |
| 7 | 010CALS.d | S07 | 2025-02-06 12:27:05 |
| 8 | 011CALS.d | S08 | 2025-02-06 12:29:51 |

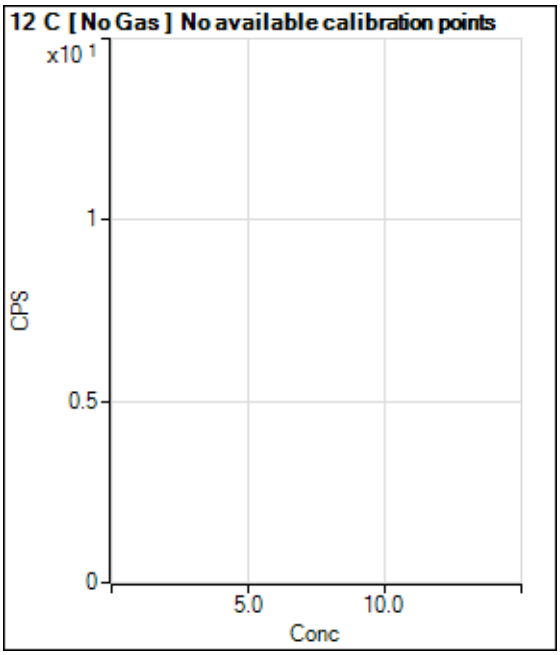
Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 299.55 | 0.0000 | P | 5.7 |
| 2 | ☐ | 1.000 | 1.105 | 7601.02 | 0.0008 | P | 0.6 |
| 3 | ☐ | 50.000 | 50.575 | 325755.46 | 0.0363 | P | 1.3 |
| 4 | ☐ | 125.000 | 125.563 | 807230.92 | 0.0901 | P | 1.6 |
| 5 | ☐ | 250.000 | 260.917 | 1646635.43 | 0.1871 | A | 0.5 |
| 6 | ☐ | 500.000 | 500.895 | 3065868.83 | 0.3592 | A | 3.1 |
| 7 | ☐ | 1000.000 | 996.724 | 5979788.32 | 0.7148 | A | 1.6 |
| 8 | ☐ | | | 2023.23 | 0.0003 | P | 11.1 |

y = 7.1714E-004 * x + 3.3052E-005
R = 0.9999
DL = 0.007867
BEC = 0.04609

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 6492331.71 | | A | 0.7 |
| 2 | ☐ | | | 6780051.43 | | A | 0.7 |
| 3 | ☐ | | | 6653098.58 | | A | 1.2 |
| 4 | ☐ | | | 6841966.70 | | A | 0.5 |
| 5 | ☐ | | | 7057636.77 | | A | 0.6 |
| 6 | ☐ | | | 7200802.81 | | A | 2.1 |
| 7 | ☐ | | | 8096407.59 | | A | 2.2 |
| 8 | ☐ | | | 7003234.76 | | A | 0.7 |

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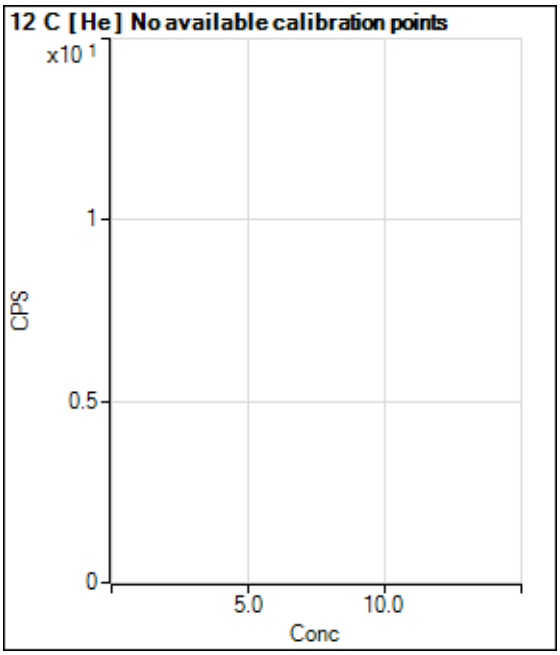
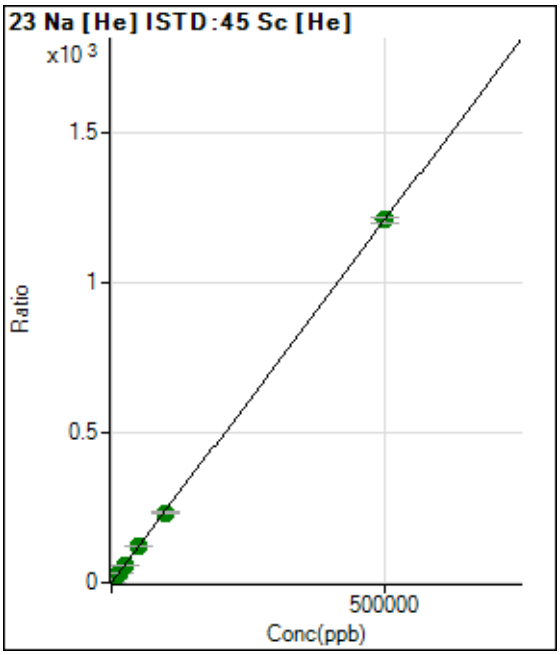
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 42841.20 | | P | 0.9 |
| 2 | ☐ | | | 44617.46 | | P | 0.3 |
| 3 | ☐ | | | 43829.54 | | P | 0.7 |
| 4 | ☐ | | | 45526.89 | | P | 1.0 |
| 5 | ☐ | | | 47830.88 | | P | 0.7 |
| 6 | ☐ | | | 49713.77 | | P | 1.3 |
| 7 | ☐ | | | 57866.65 | | P | 0.4 |
| 8 | ☐ | | | 61869.36 | | P | 1.6 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 55760.32 | 0.2382 | P | 0.6 |
| 2 | ☐ | 500.000 | 521.089 | 349842.29 | 1.4970 | P | 0.3 |
| 3 | ☐ | 5000.000 | 4951.978 | 2822057.88 | 12.2014 | A | 1.9 |
| 4 | ☐ | 12500.000 | 12372.251 | 6956311.28 | 30.1275 | A | 0.7 |
| 5 | ☐ | 25000.000 | 24836.823 | 13768986.32 | 60.2399 | A | 0.5 |
| 6 | ☐ | 50000.000 | 50354.134 | 26222550.72 | 121.8856 | A | 0.4 |
| 7 | ☐ | 100000.00 | 96513.484 | 51640965.34 | 233.3991 | A | 1.1 |
| 8 | ☐ | 500000.00 | 500673.70 | 248800967.4 | 1,209.784 | A | 1.9 |

y = 0.0024 * x + 0.2382
R = 1.0000
DL = 1.699
BEC = 98.59

Weight: <None>
Min Conc: 0

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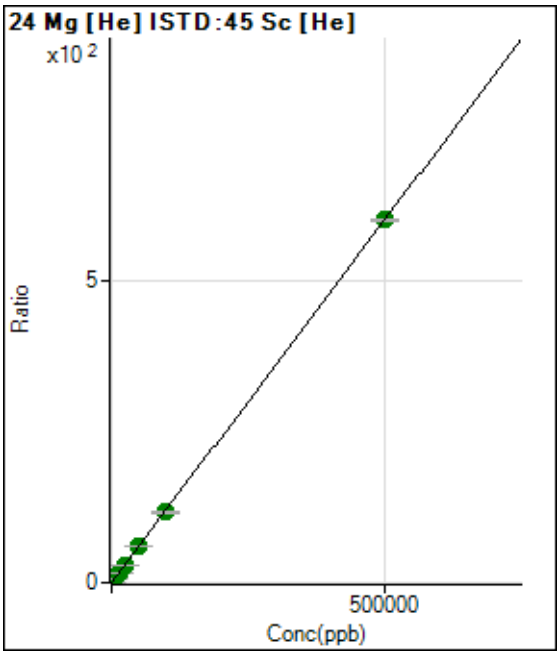
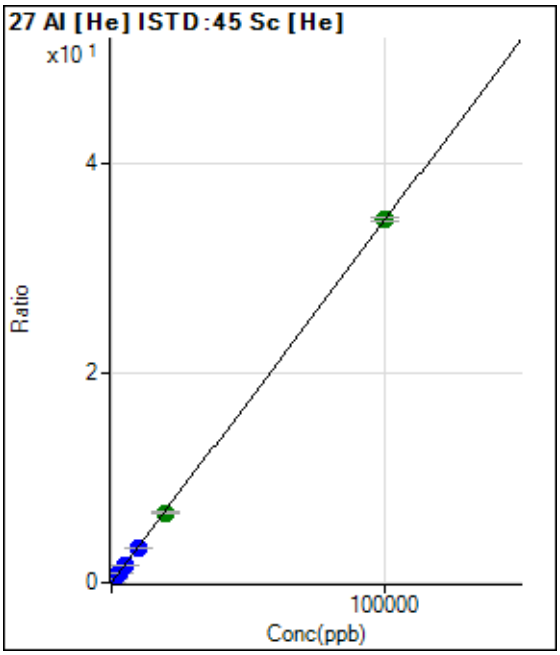



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4650.78 | 0.0199 | P | 2.6 |
| 2 | ☐ | 500.000 | 534.109 | 154607.72 | 0.6616 | P | 0.1 |
| 3 | ☐ | 5000.000 | 5034.854 | 1403842.83 | 6.0693 | A | 1.4 |
| 4 | ☐ | 12500.000 | 12614.920 | 3504109.32 | 15.1768 | A | 0.6 |
| 5 | ☐ | 25000.000 | 25091.272 | 6895103.51 | 30.1672 | A | 0.5 |
| 6 | ☐ | 50000.000 | 50833.316 | 13143176.75 | 61.0964 | A | 0.5 |
| 7 | ☐ | 100000.00 | 97128.939 | 25824302.67 | 116.7208 | A | 1.4 |
| 8 | ☐ | 500000.00 | 500483.06 | 123685942.6 | 601.3531 | A | 0.3 |

y = 0.0012 * x + 0.0199
R = 1.0000
DL = 1.277
BEC = 16.53

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 77.78 | 0.0003 | P | 23.6 |
| 2 | ☐ | 20.000 | 20.337 | 1722.34 | 0.0074 | P | 2.1 |
| 3 | ☐ | 1000.000 | 958.242 | 76785.46 | 0.3320 | P | 2.2 |
| 4 | ☐ | 2500.000 | 2402.443 | 192068.14 | 0.8319 | P | 0.3 |
| 5 | ☐ | 5000.000 | 4822.560 | 381570.92 | 1.6695 | P | 0.7 |
| 6 | ☐ | 10000.000 | 9741.780 | 725378.44 | 3.3721 | P | 1.1 |
| 7 | ☐ | 20000.000 | 19343.237 | 1481358.52 | 6.6953 | A | 0.9 |
| 8 | ☐ | 100000.00 | 100168.90 | 7130685.38 | 34.6704 | A | 1.1 |

y = 3.4612E-004 * x + 3.3179E-004
R = 1.0000
DL = 0.6799
BEC = 0.9586

Weight: <None>
Min Conc: 0

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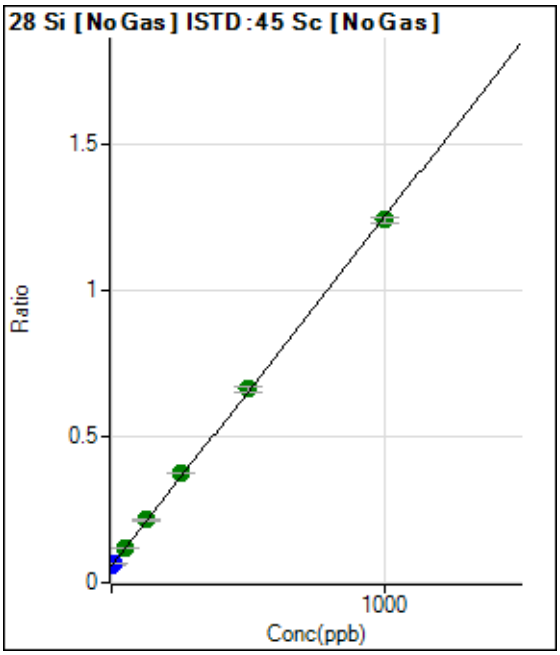
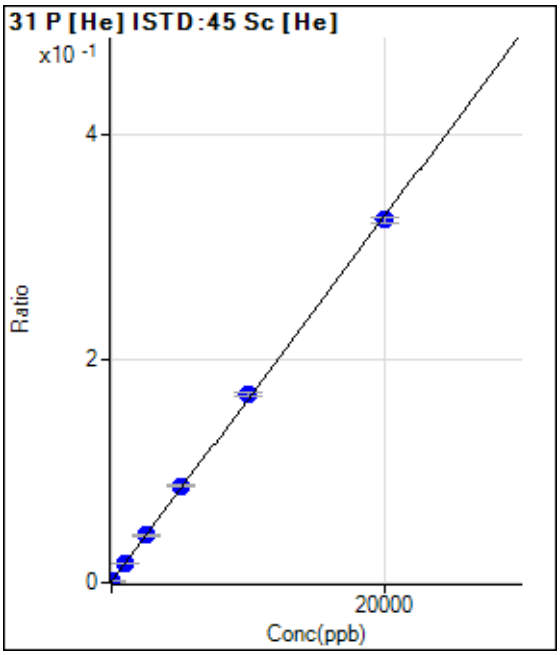



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 649404.83 | 0.0569 | P | 2.1 |
| 2 | ☐ | 10.000 | 7.787 | 744095.66 | 0.0662 | P | 0.6 |
| 3 | ☐ | 50.000 | 52.460 | 1330772.59 | 0.1195 | A | 0.6 |
| 4 | ☐ | 125.000 | 132.061 | 2365208.98 | 0.2145 | A | 1.6 |
| 5 | ☐ | 250.000 | 265.033 | 4064727.09 | 0.3732 | A | 0.6 |
| 6 | ☐ | 500.000 | 507.374 | 7128445.59 | 0.6625 | A | 3.0 |
| 7 | ☐ | 1000.000 | 991.571 | 13161651.47 | 1.2405 | A | 1.3 |
| 8 | ☐ | | | 810986.71 | 0.0842 | P | 1.1 |

y = 0.0012 * x + 0.0569
R = 0.9998
DL = 2.998
BEC = 47.64

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -18.210 | 110.00 | 0.0005 | P | 21.6 |
| 2 | ☐ | 0.000 | 18.210 | 248.89 | 0.0011 | P | 12.5 |
| 3 | ☐ | 1000.000 | 1010.216 | 3995.04 | 0.0173 | P | 6.8 |
| 4 | ☐ | 2500.000 | 2533.847 | 9735.56 | 0.0422 | P | 1.4 |
| 5 | ☐ | 5000.000 | 5252.014 | 19789.14 | 0.0866 | P | 1.4 |
| 6 | ☐ | 10000.000 | 10268.387 | 36251.89 | 0.1685 | P | 1.6 |
| 7 | ☐ | 20000.000 | 19798.061 | 71736.05 | 0.3242 | P | 1.3 |
| 8 | ☐ | | | 111.11 | 0.0005 | P | 22.0 |

y = 1.6338E-005 * x + 7.6787E-004
R = 0.9998
DL = 21.59
BEC = 47

Weight: <None>
Min Conc: 0

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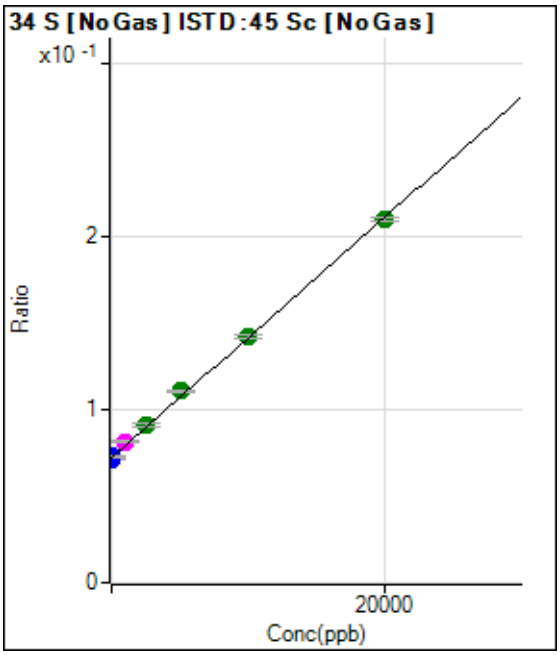
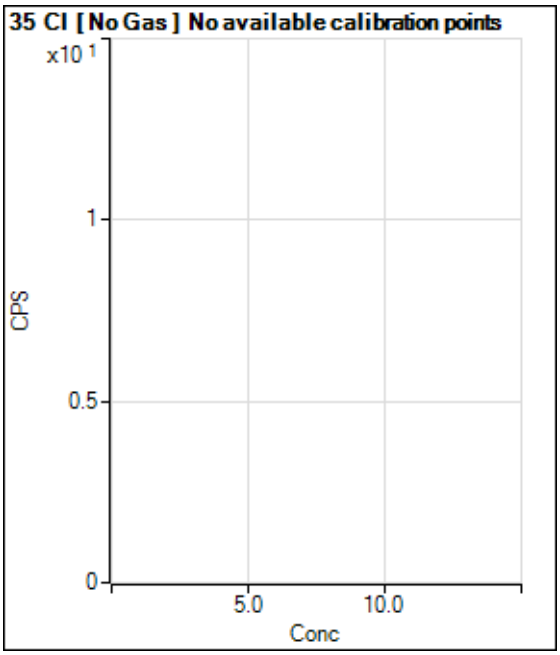



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -85.005 | 819535.25 | 0.0718 | P | 2.4 |
| 2 | ☐ | 0.000 | 85.005 | 820440.18 | 0.0730 | P | 0.9 |
| 3 | ☐ | 1000.000 | 1299.045 | 906511.04 | 0.0814 | M | 1.2 |
| 4 | ☐ | 2500.000 | 2756.900 | 1009217.73 | 0.0915 | A | 2.0 |
| 5 | ☐ | 5000.000 | 5535.280 | 1207156.98 | 0.1109 | A | 1.6 |
| 6 | ☐ | 10000.000 | 10066.160 | 1532039.70 | 0.1424 | A | 1.8 |
| 7 | ☐ | 20000.000 | 19786.035 | 2227605.89 | 0.2099 | A | 1.1 |
| 8 | ☐ | | | 665329.30 | 0.0691 | P | 2.3 |

y = 6.9536E-006 * x + 0.0724
R = 0.9995
DL = 506.2
BEC = 1.041E+04

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 167891.88 | | P | 0.4 |
| 2 | ☐ | | | 169064.32 | | P | 0.9 |
| 3 | ☐ | | | 163879.92 | | P | 0.5 |
| 4 | ☐ | | | 164354.36 | | P | 0.5 |
| 5 | ☐ | | | 171655.02 | | P | 0.4 |
| 6 | ☐ | | | 175272.29 | | P | 0.5 |
| 7 | ☐ | | | 197625.40 | | P | 1.5 |
| 8 | ☐ | | | 156089.64 | | P | 0.7 |

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On:2/7/2025 11:31:39 AM
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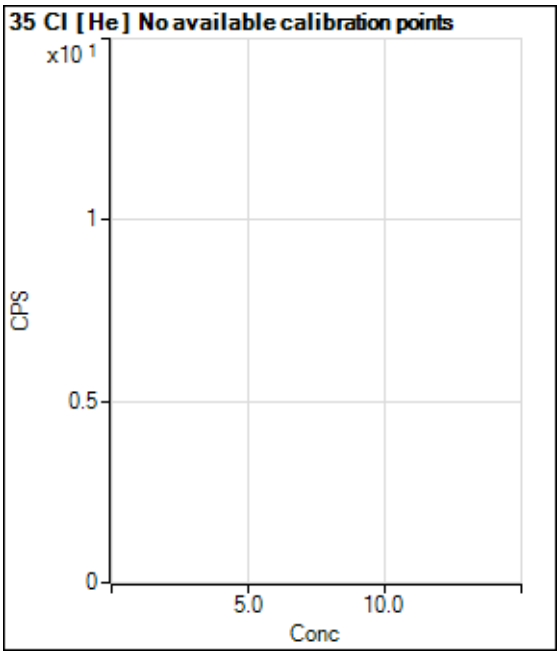
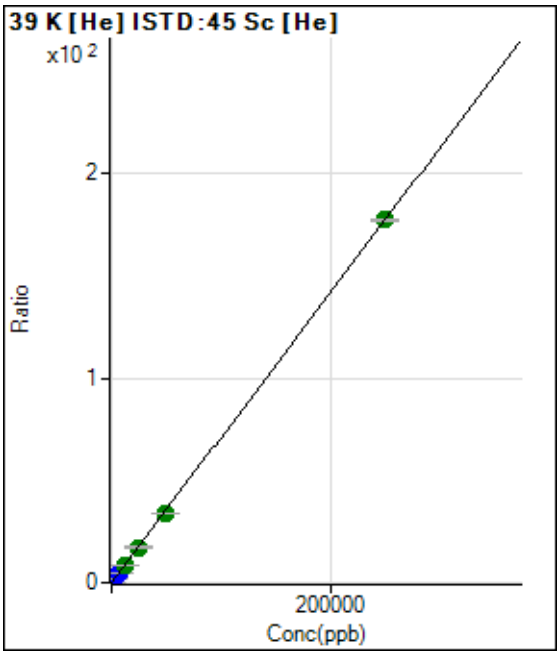



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 690.02 | | P | 7.8 |
| 2 | ☐ | | | 717.81 | | P | 9.8 |
| 3 | ☐ | | | 686.69 | | P | 5.1 |
| 4 | ☐ | | | 700.03 | | P | 6.4 |
| 5 | ☐ | | | 713.36 | | P | 7.3 |
| 6 | ☐ | | | 726.69 | | P | 2.9 |
| 7 | ☐ | | | 876.70 | | P | 4.9 |
| 8 | ☐ | | | 691.14 | | P | 4.8 |

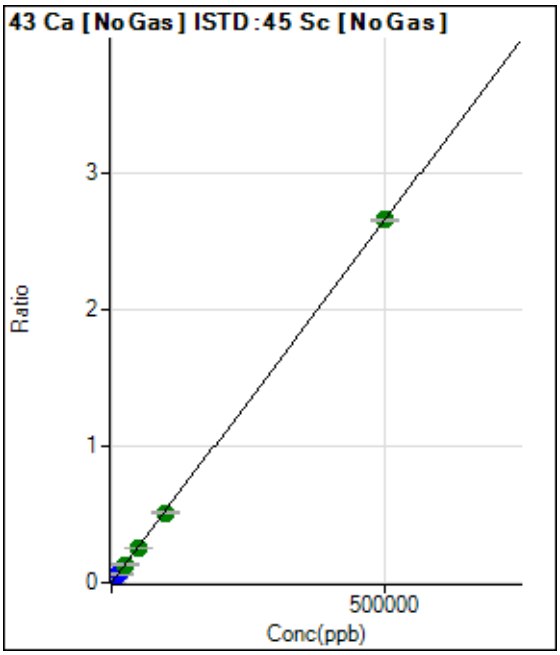



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13211.70 | 0.0564 | P | 1.3 |
| 2 | ☐ | 500.000 | 508.771 | 97328.29 | 0.4165 | P | 0.7 |
| 3 | ☐ | 2500.000 | 2369.609 | 400974.09 | 1.7334 | P | 0.7 |
| 4 | ☐ | 6250.000 | 5988.420 | 991539.96 | 4.2945 | P | 0.8 |
| 5 | ☐ | 12500.000 | 12363.353 | 2012754.64 | 8.8062 | A | 1.5 |
| 6 | ☐ | 25000.000 | 24429.184 | 3731054.67 | 17.3454 | A | 1.5 |
| 7 | ☐ | 50000.000 | 47709.475 | 7483021.42 | 33.8212 | A | 1.2 |
| 8 | ☐ | 250000.00 | 250529.84 | 36479288.07 | 177.3607 | A | 0.4 |

y = 7.0772E-004 * x + 0.0564
R = 1.0000
DL = 3.228
BEC = 79.73

Weight: <None>
Min Conc: 0

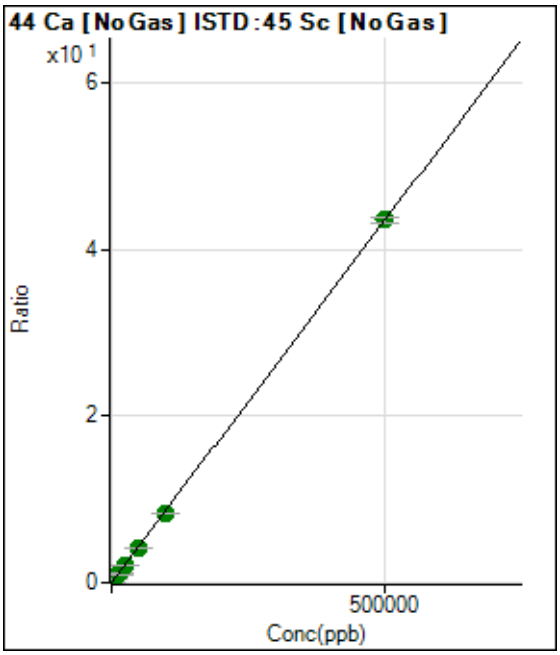
Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 690.02 | 0.0001 | P | 4.2 |
| 2 | ☐ | 500.000 | 518.193 | 31534.58 | 0.0028 | P | 1.1 |
| 3 | ☐ | 5000.000 | 4786.836 | 282942.43 | 0.0254 | P | 1.1 |
| 4 | ☐ | 12500.000 | 12036.520 | 703282.84 | 0.0638 | P | 2.5 |
| 5 | ☐ | 25000.000 | 25094.048 | 1447565.15 | 0.1329 | A | 1.3 |
| 6 | ☐ | 50000.000 | 48032.999 | 2736593.88 | 0.2544 | A | 4.1 |
| 7 | ☐ | 100000.00 | 96259.368 | 5408626.03 | 0.5097 | A | 1.4 |
| 8 | ☐ | 500000.00 | 500953.82 | 25543196.01 | 2.6525 | A | 0.7 |

y = 5.2947E-006 * x + 6.0374E-005
R = 1.0000
DL = 1.451
BEC = 11.4

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 34224.02 | 0.0030 | P | 1.5 |
| 2 | ☐ | 500.000 | 510.497 | 532926.39 | 0.0474 | P | 1.0 |
| 3 | ☐ | 5000.000 | 4752.829 | 4636360.49 | 0.4163 | A | 0.5 |
| 4 | ☐ | 12500.000 | 11950.698 | 11491016.08 | 1.0422 | A | 2.0 |
| 5 | ☐ | 25000.000 | 24363.907 | 23105687.71 | 2.1216 | A | 1.5 |
| 6 | ☐ | 50000.000 | 47208.658 | 44206963.79 | 4.1082 | A | 2.5 |
| 7 | ☐ | 100000.00 | 95505.588 | 88153443.13 | 8.3080 | A | 0.8 |
| 8 | ☐ | 500000.00 | 501226.01 | 419745478.1 | 43.5889 | A | 1.3 |

y = 8.6959E-005 * x + 0.0030
R = 0.9999
DL = 1.565
BEC = 34.46

Weight: <None>
Min Conc: 0

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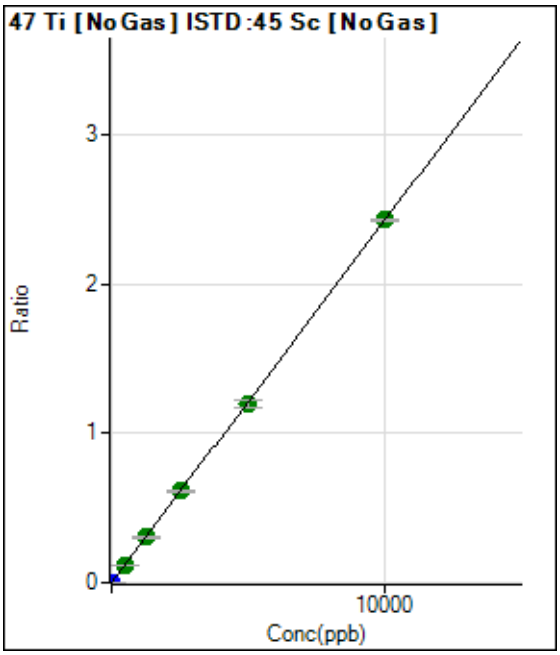
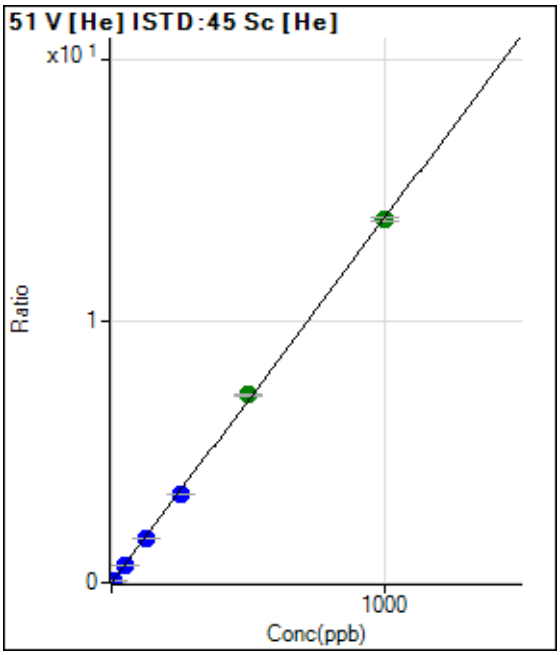



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 246.67 | 0.0000 | P | 1.9 |
| 2 | ☐ | 5.000 | 5.314 | 14716.55 | 0.0013 | P | 1.7 |
| 3 | ☐ | 500.000 | 498.276 | 1344304.79 | 0.1207 | A | 1.6 |
| 4 | ☐ | 1250.000 | 1251.929 | 3343781.55 | 0.3032 | A | 1.7 |
| 5 | ☐ | 2500.000 | 2534.076 | 6684766.36 | 0.6138 | A | 1.3 |
| 6 | ☐ | 5000.000 | 4942.644 | 12880212.45 | 1.1972 | A | 3.4 |
| 7 | ☐ | 10000.000 | 10020.004 | 25751142.12 | 2.4269 | A | 0.3 |
| 8 | ☐ | | | 3381.55 | 0.0004 | P | 6.8 |

y = 2.4221E-004 * x + 2.1592E-005
R = 1.0000
DL = 0.005208
BEC = 0.08915

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 49.3 |
| 2 | ☐ | 5.000 | 5.249 | 17095.88 | 0.0732 | P | 2.8 |
| 3 | ☐ | 50.000 | 47.997 | 154668.62 | 0.6687 | P | 1.8 |
| 4 | ☐ | 125.000 | 120.733 | 388370.26 | 1.6821 | P | 0.4 |
| 5 | ☐ | 250.000 | 243.612 | 775720.42 | 3.3940 | P | 0.8 |
| 6 | ☐ | 500.000 | 514.457 | 1541841.30 | 7.1675 | A | 1.1 |
| 7 | ☐ | 1000.000 | 995.001 | 3067117.63 | 13.8624 | A | 0.9 |
| 8 | ☐ | | | 821.14 | 0.0040 | P | 7.0 |

y = 0.0139 * x + 2.8398E-005
R = 0.9998
DL = 0.003017
BEC = 0.002038

Weight: <None>
Min Conc: 0

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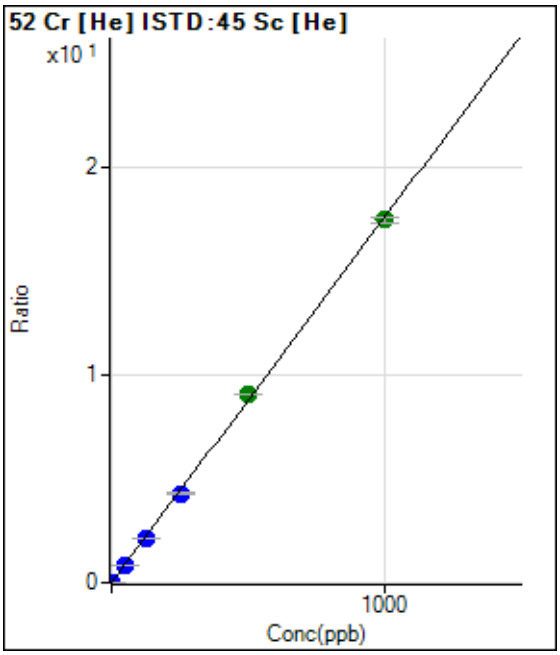
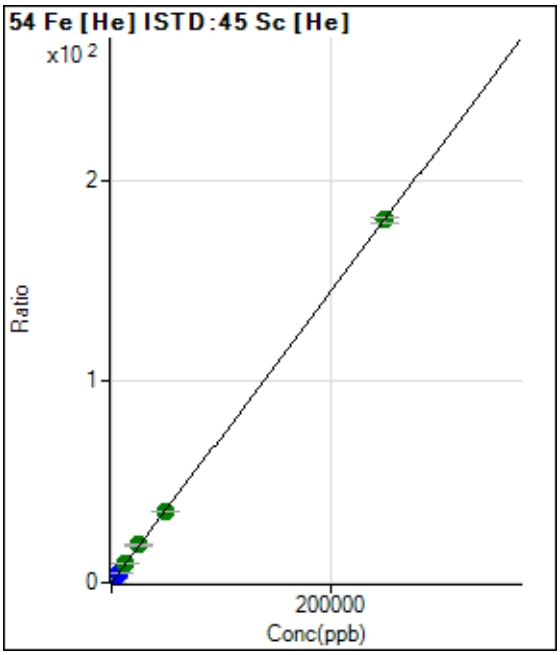



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1676.78 | 0.0072 | P | 4.8 |
| 2 | ☐ | 2.000 | 2.097 | 10296.00 | 0.0441 | P | 2.4 |
| 3 | ☐ | 50.000 | 48.670 | 199693.88 | 0.8633 | P | 1.1 |
| 4 | ☐ | 125.000 | 121.497 | 495134.91 | 2.1445 | P | 0.3 |
| 5 | ☐ | 250.000 | 244.524 | 984774.30 | 4.3087 | P | 0.6 |
| 6 | ☐ | 500.000 | 516.772 | 1957243.77 | 9.0979 | A | 0.1 |
| 7 | ☐ | 1000.000 | 993.487 | 3868422.75 | 17.4839 | A | 1.8 |
| 8 | ☐ | | | 9464.32 | 0.0460 | P | 2.6 |

y = 0.0176 * x + 0.0072
R = 0.9998
DL = 0.05836
BEC = 0.4072

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 548.91 | 0.0023 | P | 10.2 |
| 2 | ☐ | 50.000 | 55.250 | 9862.35 | 0.0422 | P | 2.1 |
| 3 | ☐ | 2500.000 | 2477.871 | 413996.65 | 1.7900 | P | 2.0 |
| 4 | ☐ | 6250.000 | 6182.846 | 1030387.67 | 4.4628 | P | 0.9 |
| 5 | ☐ | 12500.000 | 12753.925 | 2103592.02 | 9.2034 | A | 1.1 |
| 6 | ☐ | 25000.000 | 25860.234 | 4013241.82 | 18.6587 | A | 2.4 |
| 7 | ☐ | 50000.000 | 49181.686 | 7850713.22 | 35.4834 | A | 1.4 |
| 8 | ☐ | 250000.00 | 250066.84 | 37104507.78 | 180.4078 | A | 1.4 |

y = 7.2143E-004 * x + 0.0023
R = 1.0000
DL = 0.9953
BEC = 3.251

Weight: <None>
Min Conc: 0

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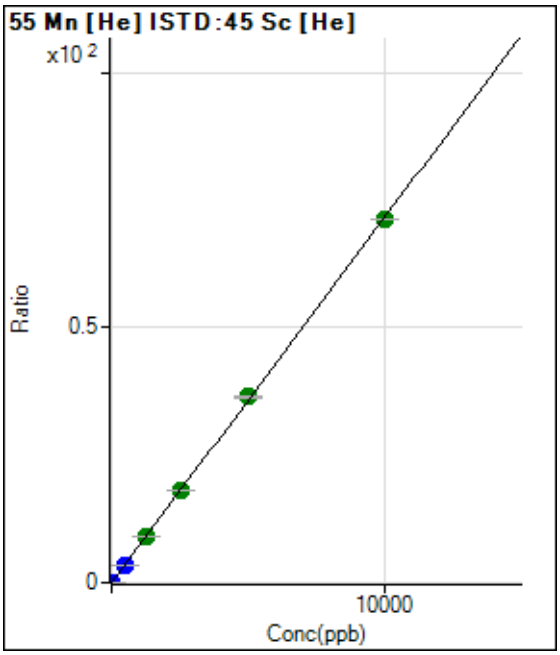
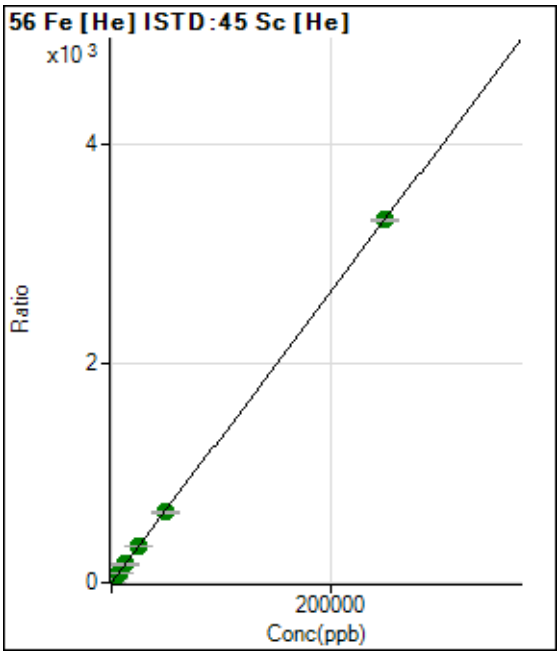



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 141.11 | 0.0006 | P | 0.8 |
| 2 | ☐ | 1.000 | 1.063 | 1917.93 | 0.0082 | P | 6.6 |
| 3 | ☐ | 500.000 | 491.924 | 814525.97 | 3.5217 | P | 1.9 |
| 4 | ☐ | 1250.000 | 1280.839 | 2116839.95 | 9.1685 | A | 1.4 |
| 5 | ☐ | 2500.000 | 2543.569 | 4161235.15 | 18.2067 | A | 0.7 |
| 6 | ☐ | 5000.000 | 5093.562 | 7843167.52 | 36.4588 | A | 0.4 |
| 7 | ☐ | 10000.000 | 9938.876 | 15740324.63 | 71.1401 | A | 0.1 |
| 8 | ☐ | | | 6856.16 | 0.0333 | P | 3.7 |

y = 0.0072 * x + 6.0273E-004
R = 0.9999
DL = 0.00201
BEC = 0.08421

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6719.42 | 0.0287 | P | 6.5 |
| 2 | ☐ | 50.000 | 53.740 | 172473.19 | 0.7381 | P | 0.6 |
| 3 | ☐ | 2500.000 | 2495.735 | 7626117.11 | 32.9716 | A | 1.8 |
| 4 | ☐ | 6250.000 | 6289.400 | 19174160.27 | 83.0469 | A | 0.7 |
| 5 | ☐ | 12500.000 | 12677.636 | 38252405.54 | 167.3697 | A | 1.7 |
| 6 | ☐ | 25000.000 | 25462.262 | 72307056.14 | 336.1229 | A | 0.7 |
| 7 | ☐ | 50000.000 | 48540.308 | 141766919.0 | 640.7461 | A | 0.9 |
| 8 | ☐ | 250000.00 | 250235.88 | 679358478.7 | 3,303.066 | A | 0.9 |

y = 0.0132 * x + 0.0287
R = 1.0000
DL = 0.4211
BEC = 2.175

Weight: <None>
Min Conc: 0

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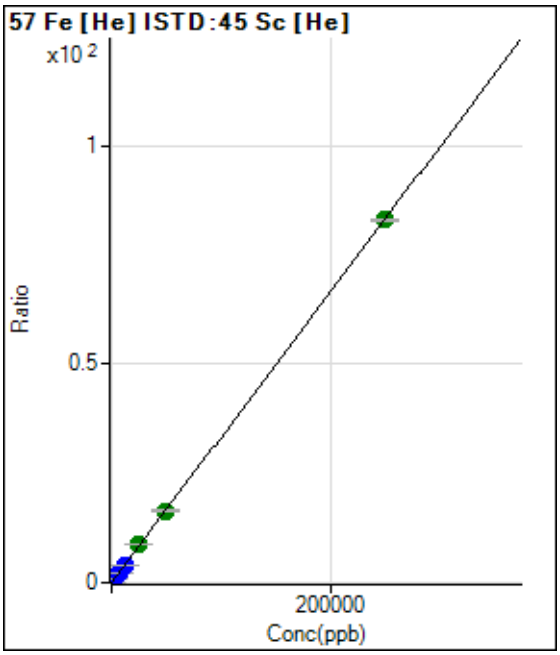
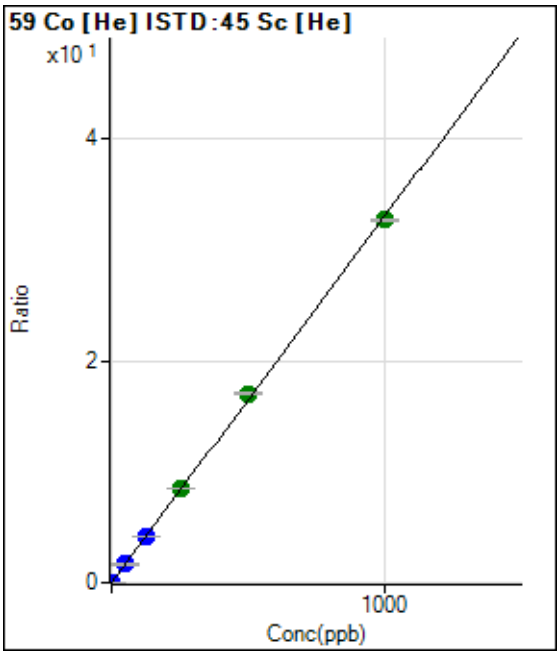



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 194.45 | 0.0008 | P | 11.6 |
| 2 | ☐ | 50.000 | 51.927 | 4222.89 | 0.0181 | P | 4.3 |
| 3 | ☐ | 2500.000 | 2453.575 | 188621.39 | 0.8155 | P | 1.8 |
| 4 | ☐ | 6250.000 | 6107.893 | 468434.01 | 2.0289 | P | 0.6 |
| 5 | ☐ | 12500.000 | 12320.743 | 935197.80 | 4.0918 | P | 1.1 |
| 6 | ☐ | 25000.000 | 26145.578 | 1867412.80 | 8.6821 | A | 2.3 |
| 7 | ☐ | 50000.000 | 49627.171 | 3646140.36 | 16.4788 | A | 1.5 |
| 8 | ☐ | 250000.00 | 249972.98 | 17071398.63 | 83.0006 | A | 0.7 |

y = 3.3204E-004 * x + 8.3101E-004
R = 1.0000
DL = 0.8674
BEC = 2.503

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 94.44 | 0.0004 | P | 15.6 |
| 2 | ☐ | 1.000 | 1.177 | 9179.70 | 0.0393 | P | 1.9 |
| 3 | ☐ | 50.000 | 50.076 | 382669.05 | 1.6545 | P | 1.7 |
| 4 | ☐ | 125.000 | 124.309 | 948132.41 | 4.1064 | P | 0.1 |
| 5 | ☐ | 250.000 | 257.214 | 1941901.15 | 8.4964 | A | 0.6 |
| 6 | ☐ | 500.000 | 515.060 | 3659759.08 | 17.0132 | A | 1.1 |
| 7 | ☐ | 1000.000 | 990.749 | 7240736.56 | 32.7257 | A | 0.5 |
| 8 | ☐ | | | 15191.56 | 0.0739 | P | 3.1 |

y = 0.0330 * x + 4.0309E-004
R = 0.9998
DL = 0.005726
BEC = 0.0122

Weight: <None>
Min Conc: 0

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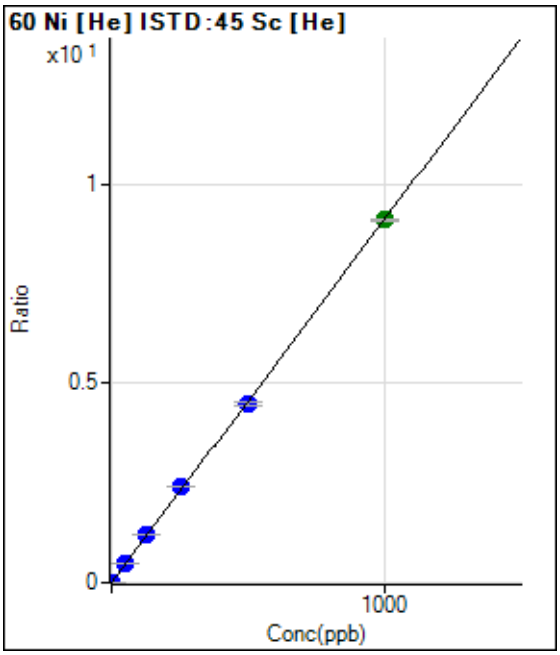
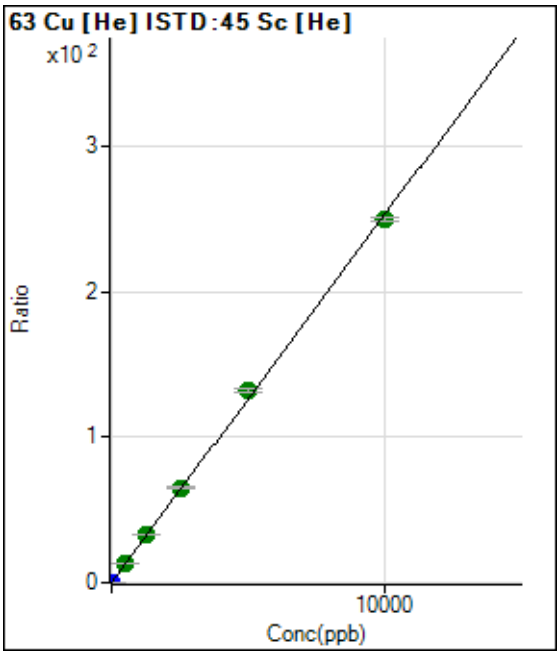



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 715.58 | 0.0031 | P | 4.3 |
| 2 | ☐ | 1.000 | 1.099 | 3054.80 | 0.0131 | P | 4.8 |
| 3 | ☐ | 50.000 | 52.813 | 112078.86 | 0.4846 | P | 2.1 |
| 4 | ☐ | 125.000 | 133.262 | 281245.83 | 1.2181 | P | 0.1 |
| 5 | ☐ | 250.000 | 265.984 | 554979.55 | 2.4282 | P | 0.8 |
| 6 | ☐ | 500.000 | 492.336 | 966228.30 | 4.4920 | P | 1.8 |
| 7 | ☐ | 1000.000 | 998.663 | 2015333.86 | 9.1086 | A | 0.6 |
| 8 | ☐ | | | 6512.65 | 0.0317 | P | 1.4 |

y = 0.0091 * x + 0.0031
R = 0.9998
DL = 0.04348
BEC = 0.3351

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3802.77 | 0.0162 | P | 4.4 |
| 2 | ☐ | 2.000 | 2.241 | 17038.11 | 0.0729 | P | 0.6 |
| 3 | ☐ | 500.000 | 523.552 | 3065583.67 | 13.2546 | A | 2.1 |
| 4 | ☐ | 1250.000 | 1288.834 | 7528313.99 | 32.6051 | A | 0.6 |
| 5 | ☐ | 2500.000 | 2583.770 | 14935792.28 | 65.3483 | A | 0.8 |
| 6 | ☐ | 5000.000 | 5218.698 | 28386633.47 | 131.9739 | A | 2.0 |
| 7 | ☐ | 10000.000 | 9863.677 | 55185646.40 | 249.4248 | A | 1.2 |
| 8 | ☐ | | | 11343.52 | 0.0551 | P | 0.8 |

y = 0.0253 * x + 0.0162
R = 0.9996
DL = 0.08399
BEC = 0.6425

Weight: <None>
Min Conc: 0

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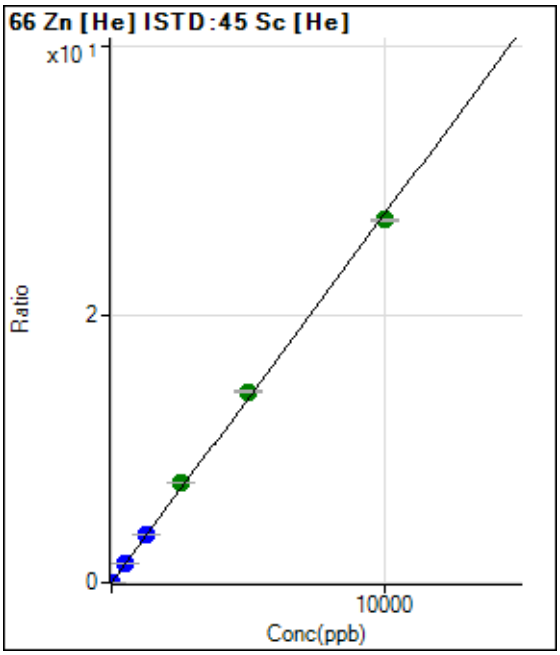
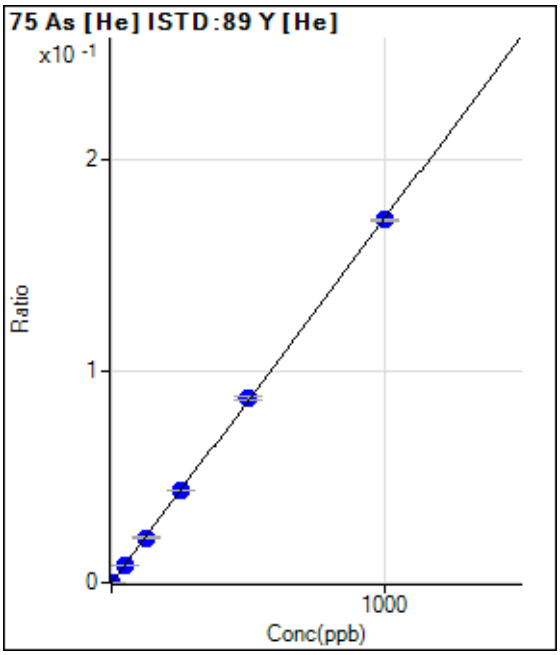



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 336.67 | 0.0014 | P | 3.4 |
| 2 | ☐ | 5.000 | 5.367 | 3781.65 | 0.0162 | P | 5.4 |
| 3 | ☐ | 500.000 | 518.470 | 329779.38 | 1.4258 | P | 1.7 |
| 4 | ☐ | 1250.000 | 1302.186 | 826299.04 | 3.5788 | P | 0.3 |
| 5 | ☐ | 2500.000 | 2706.708 | 1699886.59 | 7.4373 | A | 1.3 |
| 6 | ☐ | 5000.000 | 5188.463 | 3066439.99 | 14.2551 | A | 1.6 |
| 7 | ☐ | 10000.000 | 9846.645 | 5985352.27 | 27.0520 | A | 0.6 |
| 8 | ☐ | | | 2943.67 | 0.0143 | P | 4.9 |

y = 0.0027 * x + 0.0014
R = 0.9995
DL = 0.05348
BEC = 0.5236

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 51.4 |
| 2 | ☐ | 1.000 | 1.101 | 410.01 | 0.0002 | P | 12.0 |
| 3 | ☐ | 50.000 | 49.317 | 18056.10 | 0.0085 | P | 1.9 |
| 4 | ☐ | 125.000 | 123.585 | 45255.79 | 0.0213 | P | 1.0 |
| 5 | ☐ | 250.000 | 254.042 | 90612.10 | 0.0437 | P | 1.3 |
| 6 | ☐ | 500.000 | 505.347 | 173574.69 | 0.0870 | P | 2.2 |
| 7 | ☐ | 1000.000 | 996.527 | 347359.22 | 0.1716 | P | 0.9 |
| 8 | ☐ | | | 225.56 | 0.0001 | P | 7.3 |

y = 1.7215E-004 * x + 3.0948E-006
R = 1.0000
DL = 0.02769
BEC = 0.01798

Weight: <None>
Min Conc: 0

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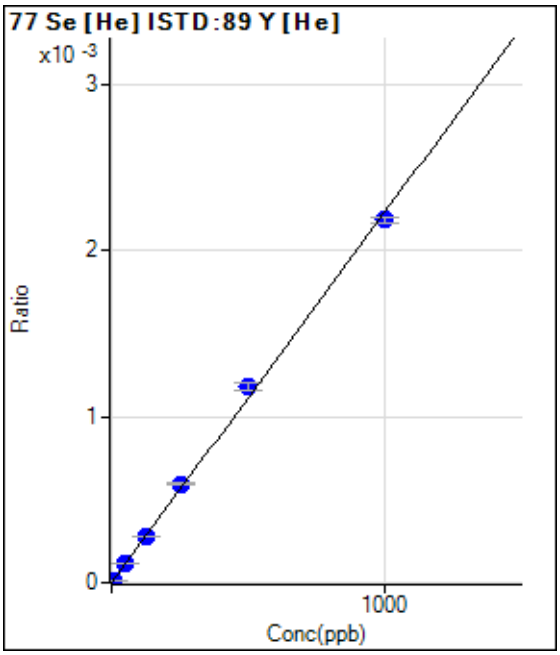
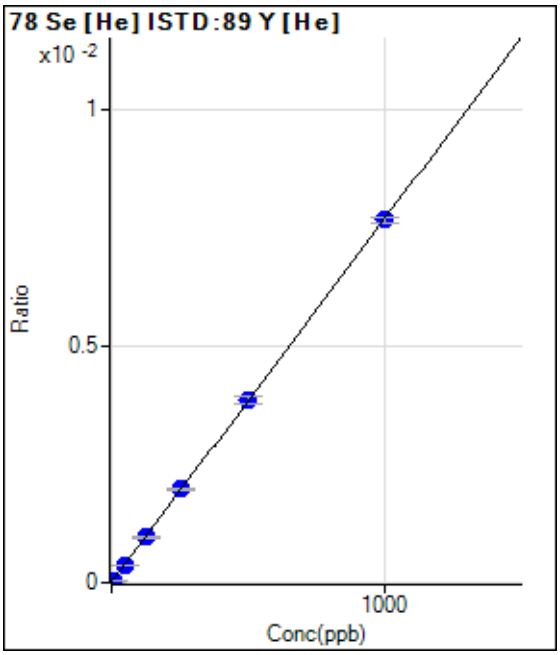



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 0.00 | 0.0000 | P | |
| 2 | ☐ | 5.000 | 4.451 | 21.11 | 0.0000 | P | 45.7 |
| 3 | ☐ | 50.000 | 52.248 | 247.78 | 0.0001 | P | 6.2 |
| 4 | ☐ | 125.000 | 124.836 | 592.24 | 0.0003 | P | 3.0 |
| 5 | ☐ | 250.000 | 266.663 | 1232.29 | 0.0006 | P | 3.1 |
| 6 | ☐ | 500.000 | 530.681 | 2361.34 | 0.0012 | P | 4.5 |
| 7 | ☐ | 1000.000 | 980.405 | 4428.52 | 0.0022 | P | 1.8 |
| 8 | ☐ | | | 1.11 | 0.0000 | P | 173. |

y = 2.2306E-006 * x + 0.0000E+000
R = 0.9991
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 69.4 |
| 2 | ☐ | 5.000 | 4.161 | 84.44 | 0.0000 | P | 22.3 |
| 3 | ☐ | 50.000 | 47.734 | 795.59 | 0.0004 | P | 4.4 |
| 4 | ☐ | 125.000 | 124.666 | 2052.40 | 0.0010 | P | 4.6 |
| 5 | ☐ | 250.000 | 256.667 | 4099.52 | 0.0020 | P | 1.3 |
| 6 | ☐ | 500.000 | 501.636 | 7699.95 | 0.0039 | P | 3.3 |
| 7 | ☐ | 1000.000 | 997.674 | 15527.52 | 0.0077 | P | 1.4 |
| 8 | ☐ | | | 6.67 | 0.0000 | P | 50.0 |

y = 7.6790E-006 * x + 7.7181E-006
R = 1.0000
DL = 2.093
BEC = 1.005

Weight: <None>
Min Conc: 0

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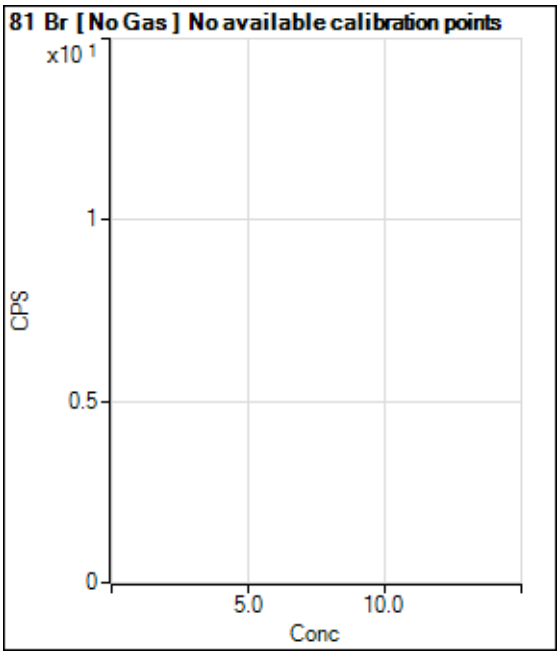
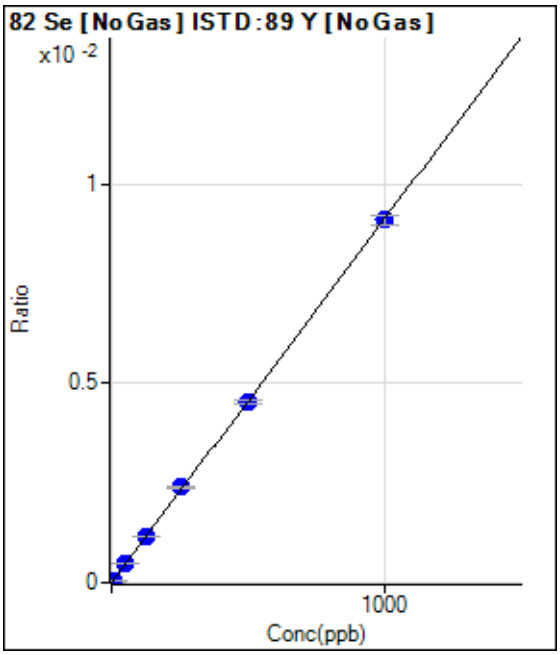



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4261.80 | | P | 3.0 |
| 2 | ☐ | | | 4142.87 | | P | 4.0 |
| 3 | ☐ | | | 4071.74 | | P | 3.5 |
| 4 | ☐ | | | 3906.14 | | P | 0.3 |
| 5 | ☐ | | | 4032.84 | | P | 2.3 |
| 6 | ☐ | | | 3793.88 | | P | 6.9 |
| 7 | ☐ | | | 4015.06 | | P | 1.6 |
| 8 | ☐ | | | 4030.63 | | P | 0.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 31.1 |
| 2 | ☐ | 5.000 | 5.266 | 1333.44 | 0.0000 | P | 0.6 |
| 3 | ☐ | 50.000 | 51.025 | 12593.78 | 0.0005 | P | 2.5 |
| 4 | ☐ | 125.000 | 127.157 | 31817.86 | 0.0012 | P | 1.9 |
| 5 | ☐ | 250.000 | 261.843 | 64314.24 | 0.0024 | P | 0.8 |
| 6 | ☐ | 500.000 | 498.169 | 121133.77 | 0.0045 | P | 1.9 |
| 7 | ☐ | 1000.000 | 997.632 | 240624.74 | 0.0091 | P | 2.7 |
| 8 | ☐ | | | 27.78 | 0.0000 | P | 203. |

y = 9.1244E-006 * x + 7.1409E-007
R = 0.9999
DL = 0.07291
BEC = 0.07826

Weight: <None>
Min Conc: 0

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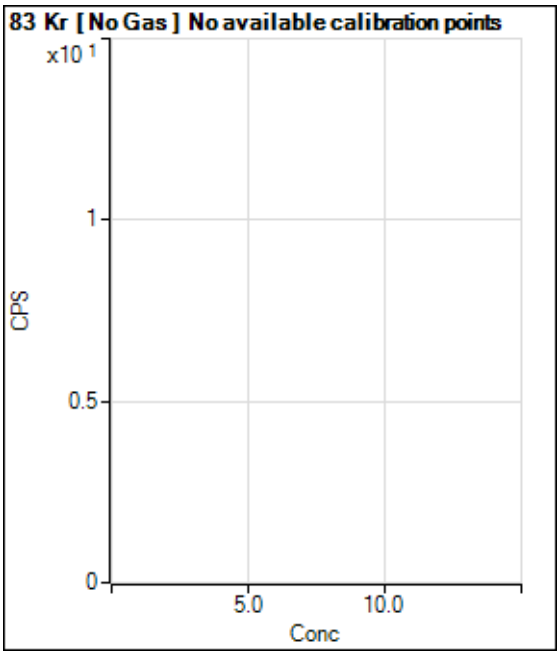
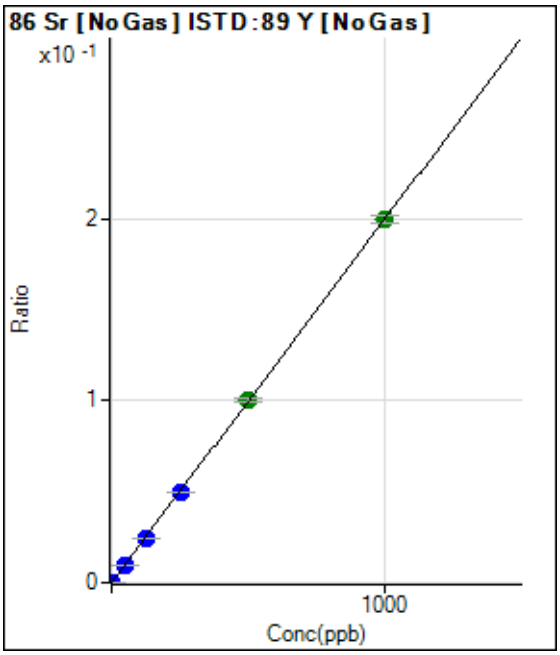



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 290.01 | | P | 14.1 |
| 2 | ☐ | | | 265.56 | | P | 13.8 |
| 3 | ☐ | | | 285.56 | | P | 3.6 |
| 4 | ☐ | | | 295.56 | | P | 12.8 |
| 5 | ☐ | | | 230.00 | | P | 5.2 |
| 6 | ☐ | | | 310.01 | | P | 19.1 |
| 7 | ☐ | | | 294.45 | | P | 11.8 |
| 8 | ☐ | | | 318.90 | | P | 18.4 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 503.35 | 0.0000 | P | 17.9 |
| 2 | ☐ | 1.000 | 1.067 | 6320.38 | 0.0002 | P | 3.2 |
| 3 | ☐ | 50.000 | 48.748 | 263444.41 | 0.0098 | P | 1.5 |
| 4 | ☐ | 125.000 | 121.053 | 663107.09 | 0.0242 | P | 1.4 |
| 5 | ☐ | 250.000 | 248.670 | 1337004.91 | 0.0497 | P | 0.7 |
| 6 | ☐ | 500.000 | 503.273 | 2678684.96 | 0.1005 | A | 2.0 |
| 7 | ☐ | 1000.000 | 999.252 | 5276047.42 | 0.1996 | A | 2.3 |
| 8 | ☐ | | | 16602.15 | 0.0007 | P | 0.5 |

y = 1.9972E-004 * x + 1.8108E-005
R = 1.0000
DL = 0.04869
BEC = 0.09067

Weight: <None>
Min Conc: 0

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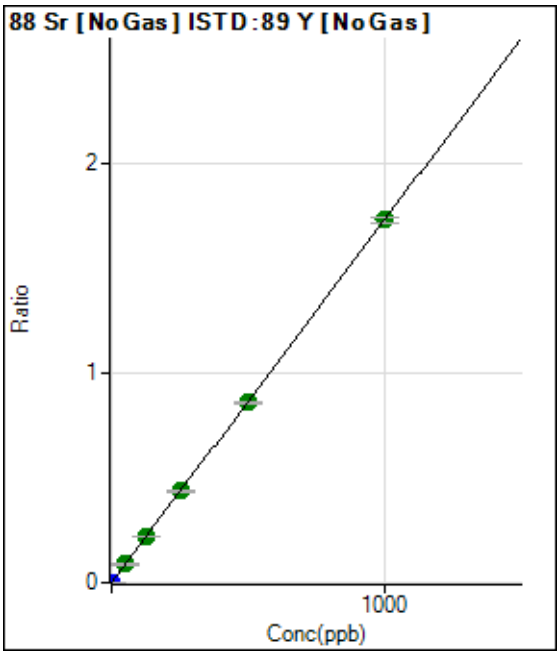
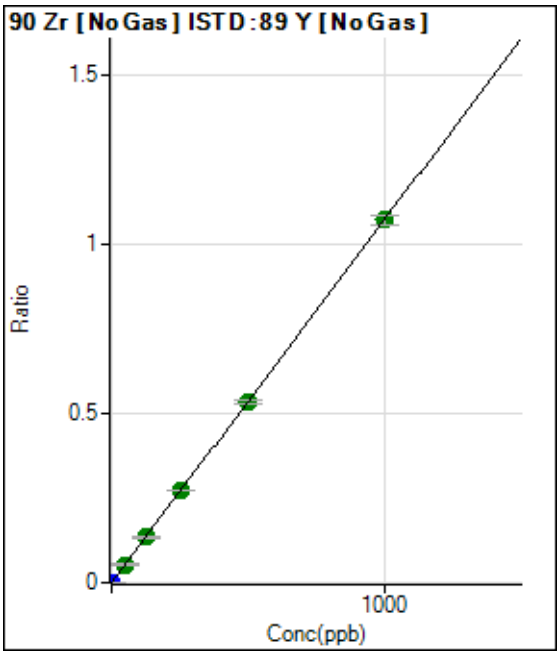



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 361.12 | 0.0000 | P | 9.6 |
| 2 | ☐ | 1.000 | 1.061 | 50573.40 | 0.0018 | P | 1.1 |
| 3 | ☐ | 50.000 | 50.542 | 2363414.46 | 0.0875 | A | 2.1 |
| 4 | ☐ | 125.000 | 125.638 | 5961953.32 | 0.2175 | A | 0.9 |
| 5 | ☐ | 250.000 | 253.008 | 11787023.44 | 0.4380 | A | 1.5 |
| 6 | ☐ | 500.000 | 497.856 | 22966438.82 | 0.8619 | A | 1.1 |
| 7 | ☐ | 1000.000 | 1000.213 | 45774527.65 | 1.7315 | A | 1.6 |
| 8 | ☐ | | | 140271.68 | 0.0059 | P | 0.8 |

y = 0.0017 * x + 1.2973E-005
R = 1.0000
DL = 0.002168
BEC = 0.007494

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 933.37 | 0.0000 | P | 10.0 |
| 2 | ☐ | 1.000 | 1.036 | 31344.06 | 0.0011 | P | 1.5 |
| 3 | ☐ | 50.000 | 50.234 | 1458625.85 | 0.0540 | A | 1.4 |
| 4 | ☐ | 125.000 | 125.265 | 3689437.79 | 0.1346 | A | 2.1 |
| 5 | ☐ | 250.000 | 254.857 | 7370100.72 | 0.2739 | A | 0.5 |
| 6 | ☐ | 500.000 | 498.474 | 14271543.12 | 0.5356 | A | 1.7 |
| 7 | ☐ | 1000.000 | 999.504 | 28386090.13 | 1.0739 | A | 2.9 |
| 8 | ☐ | | | 47730.31 | 0.0020 | P | 1.0 |

y = 0.0011 * x + 3.3502E-005
R = 1.0000
DL = 0.009329
BEC = 0.03118

Weight: <None>
Min Conc: 0

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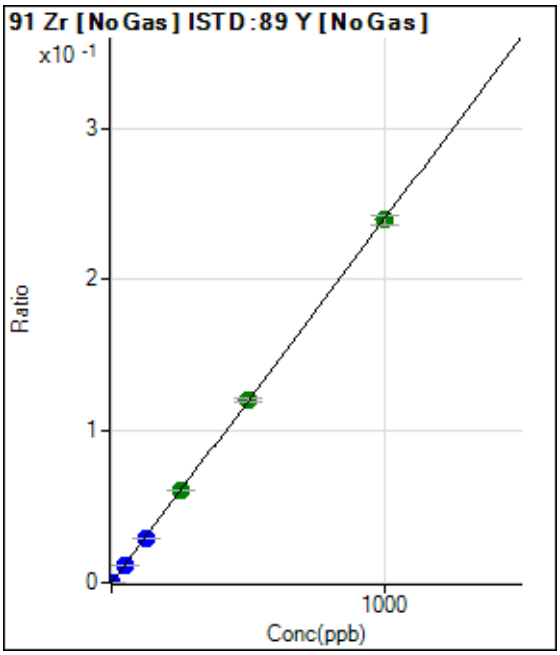
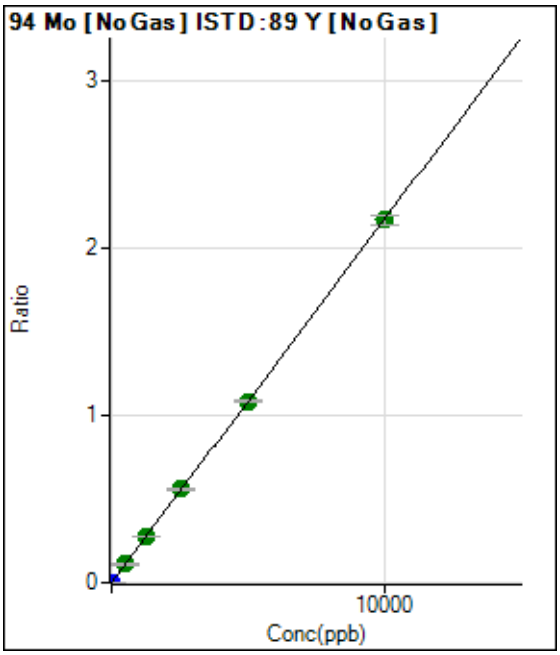



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 155.56 | 0.0000 | P | 10.2 |
| 2 | ☐ | 1.000 | 1.018 | 6833.96 | 0.0002 | P | 2.0 |
| 3 | ☐ | 50.000 | 48.102 | 311926.87 | 0.0115 | P | 1.2 |
| 4 | ☐ | 125.000 | 120.019 | 789514.89 | 0.0288 | P | 1.3 |
| 5 | ☐ | 250.000 | 255.030 | 1647170.51 | 0.0612 | A | 0.8 |
| 6 | ☐ | 500.000 | 503.997 | 3222730.05 | 0.1209 | A | 2.0 |
| 7 | ☐ | 1000.000 | 997.461 | 6326876.22 | 0.2394 | A | 2.8 |
| 8 | ☐ | | | 10741.98 | 0.0004 | P | 2.2 |

y = 2.3997E-004 * x + 5.5880E-006
R = 1.0000
DL = 0.007123
BEC = 0.02329

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 374.45 | 0.0000 | P | 7.1 |
| 2 | ☐ | 5.000 | 6.204 | 37155.13 | 0.0014 | P | 1.2 |
| 3 | ☐ | 500.000 | 507.536 | 2972811.31 | 0.1101 | A | 2.4 |
| 4 | ☐ | 1250.000 | 1248.840 | 7423134.54 | 0.2708 | A | 0.6 |
| 5 | ☐ | 2500.000 | 2569.945 | 14998598.39 | 0.5573 | A | 0.7 |
| 6 | ☐ | 5000.000 | 4996.107 | 28869797.35 | 1.0834 | A | 1.3 |
| 7 | ☐ | 10000.000 | 9984.228 | 57231410.81 | 2.1651 | A | 2.5 |
| 8 | ☐ | | | 24312.45 | 0.0010 | P | 3.7 |

y = 2.1685E-004 * x + 1.3430E-005
R = 1.0000
DL = 0.0131
BEC = 0.06193

Weight: <None>
Min Conc: 0

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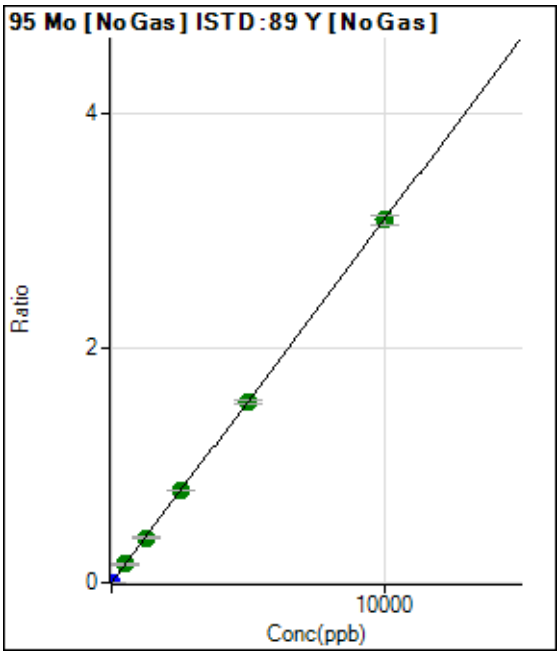
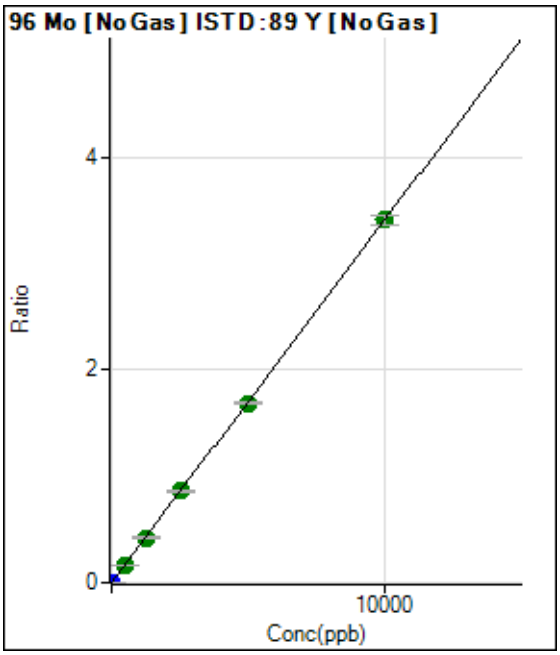



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 156.67 | 0.0000 | P | 18.5 |
| 2 | ☐ | 5.000 | 5.230 | 44336.01 | 0.0016 | P | 1.1 |
| 3 | ☐ | 500.000 | 503.724 | 4203426.02 | 0.1556 | A | 1.9 |
| 4 | ☐ | 1250.000 | 1244.379 | 10538539.22 | 0.3845 | A | 1.2 |
| 5 | ☐ | 2500.000 | 2551.599 | 21215449.27 | 0.7883 | A | 0.7 |
| 6 | ☐ | 5000.000 | 4988.449 | 41067384.67 | 1.5412 | A | 1.6 |
| 7 | ☐ | 10000.000 | 9993.392 | 81611594.34 | 3.0875 | A | 2.5 |
| 8 | ☐ | | | 11916.47 | 0.0005 | P | 5.5 |

y = 3.0896E-004 * x + 5.6323E-006
R = 1.0000
DL = 0.01011
BEC = 0.01823

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 213.34 | 0.0000 | P | 7.9 |
| 2 | ☐ | 5.000 | 5.254 | 49136.49 | 0.0018 | P | 0.8 |
| 3 | ☐ | 500.000 | 503.167 | 4628719.93 | 0.1714 | A | 0.3 |
| 4 | ☐ | 1250.000 | 1242.574 | 11598042.33 | 0.4232 | A | 1.4 |
| 5 | ☐ | 2500.000 | 2534.354 | 23226559.93 | 0.8631 | A | 1.2 |
| 6 | ☐ | 5000.000 | 4961.079 | 45021057.66 | 1.6895 | A | 0.8 |
| 7 | ☐ | 10000.000 | 10011.641 | 90125787.54 | 3.4095 | A | 2.4 |
| 8 | ☐ | | | 16038.31 | 0.0007 | P | 4.7 |

y = 3.4056E-004 * x + 7.6478E-006
R = 1.0000
DL = 0.0053
BEC = 0.02246

Weight: <None>
Min Conc: 0

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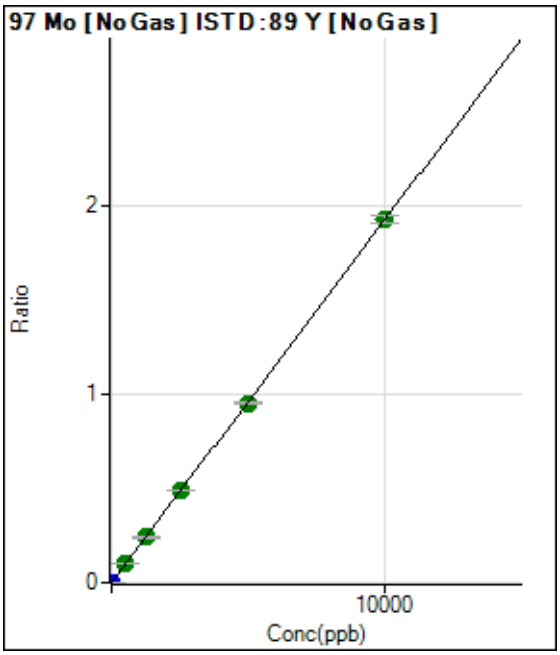
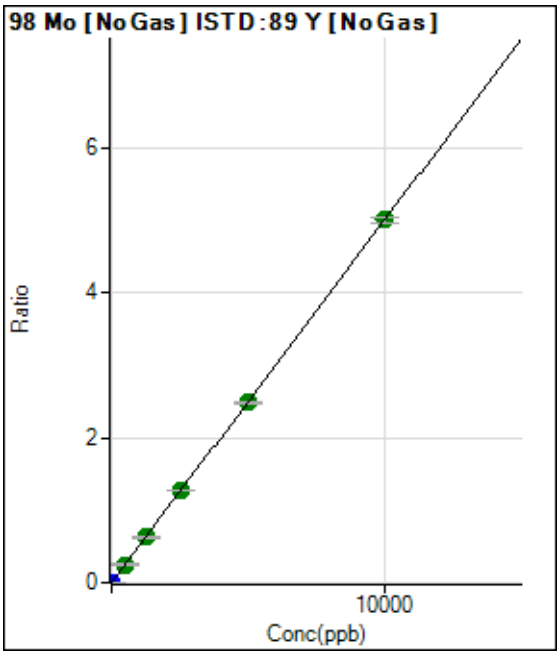



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 97.78 | 0.0000 | P | 9.4 |
| 2 | ☐ | 5.000 | 5.316 | 27983.80 | 0.0010 | P | 2.4 |
| 3 | ☐ | 500.000 | 508.044 | 2633141.54 | 0.0975 | A | 0.9 |
| 4 | ☐ | 1250.000 | 1250.812 | 6577813.17 | 0.2400 | A | 2.1 |
| 5 | ☐ | 2500.000 | 2548.069 | 13157592.72 | 0.4889 | A | 1.2 |
| 6 | ☐ | 5000.000 | 4951.194 | 25315910.73 | 0.9501 | A | 0.9 |
| 7 | ☐ | 10000.000 | 10011.882 | 50784152.58 | 1.9211 | A | 2.0 |
| 8 | ☐ | | | 6929.60 | 0.0003 | P | 6.5 |

y = 1.9188E-004 * x + 3.5127E-006
R = 1.0000
DL = 0.005169
BEC = 0.01831

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 231.12 | 0.0000 | P | 14.9 |
| 2 | ☐ | 5.000 | 5.190 | 71276.11 | 0.0026 | P | 2.1 |
| 3 | ☐ | 500.000 | 503.835 | 6813729.83 | 0.2523 | A | 1.8 |
| 4 | ☐ | 1250.000 | 1247.432 | 17119181.13 | 0.6246 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2541.961 | 34251370.60 | 1.2728 | A | 1.3 |
| 6 | ☐ | 5000.000 | 4961.580 | 66196053.46 | 2.4843 | A | 1.6 |
| 7 | ☐ | 10000.000 | 10008.849 | 132482390.2 | 5.0115 | A | 1.6 |
| 8 | ☐ | | | 17545.91 | 0.0007 | P | 6.0 |

y = 5.0071E-004 * x + 8.2843E-006
R = 1.0000
DL = 0.007404
BEC = 0.01655

Weight: <None>
Min Conc: 0

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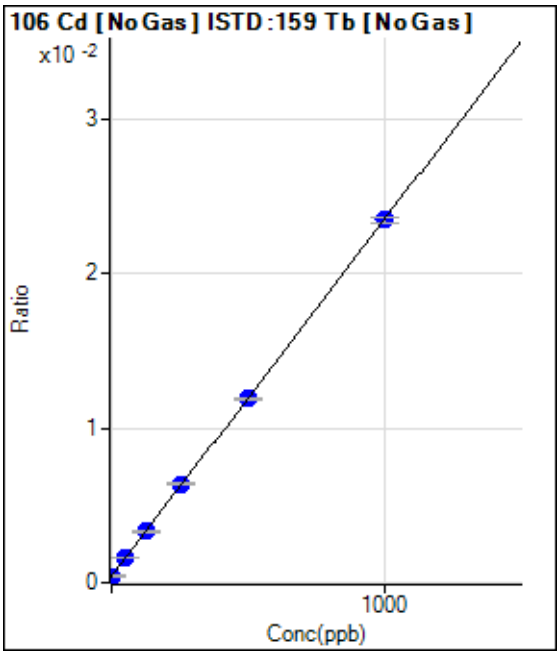
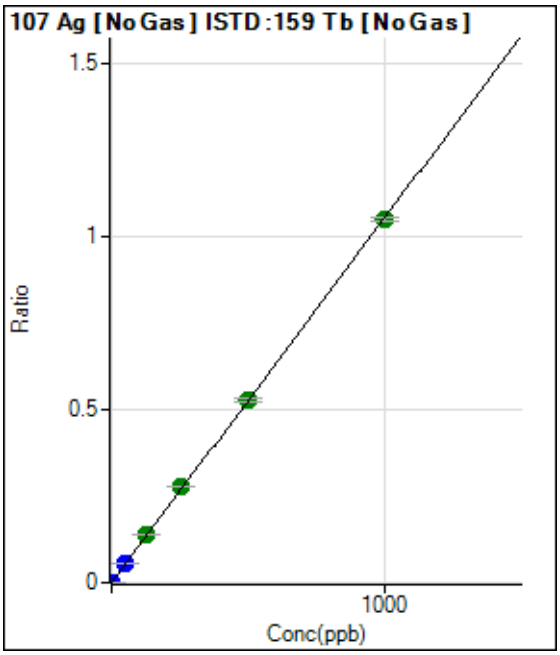



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8102.47 | 0.0004 | P | 1.7 |
| 2 | ☐ | 1.000 | 0.990 | 8395.97 | 0.0004 | P | 1.7 |
| 3 | ☐ | 50.000 | 52.438 | 31430.25 | 0.0016 | P | 1.2 |
| 4 | ☐ | 125.000 | 126.388 | 65580.35 | 0.0033 | P | 2.3 |
| 5 | ☐ | 250.000 | 259.284 | 124870.92 | 0.0064 | P | 1.6 |
| 6 | ☐ | 500.000 | 497.559 | 230555.04 | 0.0119 | P | 1.1 |
| 7 | ☐ | 1000.000 | 998.604 | 450449.33 | 0.0235 | P | 1.4 |
| 8 | ☐ | | | 7195.27 | 0.0004 | P | 0.8 |

y = 2.3099E-005 * x + 4.0910E-004
R = 0.9999
DL = 0.9114
BEC = 17.71

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 196.67 | 0.0000 | P | 17.0 |
| 2 | ☐ | 1.000 | 1.060 | 21911.96 | 0.0011 | P | 2.3 |
| 3 | ☐ | 50.000 | 50.694 | 1037340.99 | 0.0535 | P | 1.0 |
| 4 | ☐ | 125.000 | 131.151 | 2726115.20 | 0.1383 | A | 1.0 |
| 5 | ☐ | 250.000 | 263.258 | 5419214.29 | 0.2777 | A | 1.5 |
| 6 | ☐ | 500.000 | 501.584 | 10247648.39 | 0.5291 | A | 2.0 |
| 7 | ☐ | 1000.000 | 995.090 | 20138358.59 | 1.0496 | A | 1.2 |
| 8 | ☐ | | | 2574.73 | 0.0001 | P | 13.2 |

y = 0.0011 * x + 9.9565E-006
R = 0.9999
DL = 0.004802
BEC = 0.00944

Weight: <None>
Min Conc: 0

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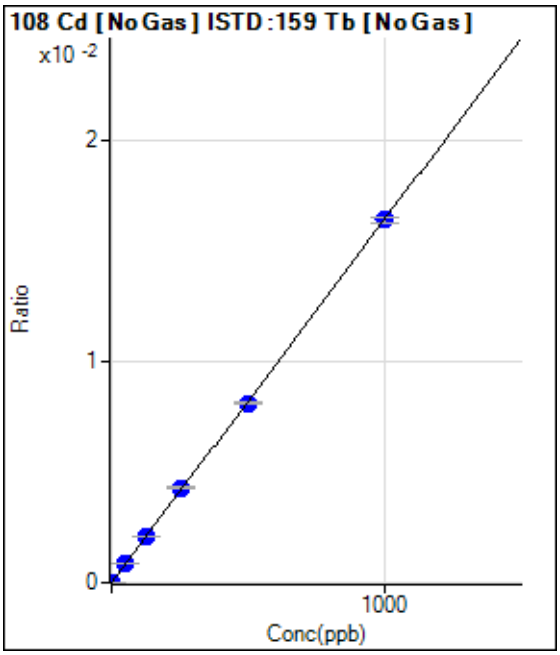
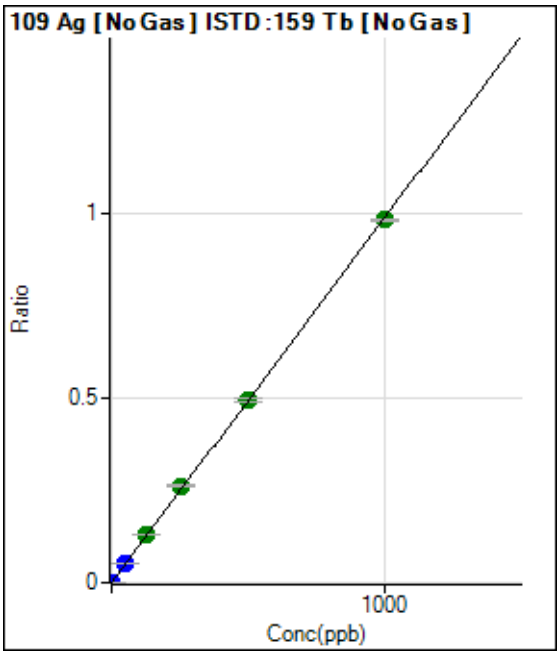



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17.78 | 0.0000 | P | 63.6 |
| 2 | ☐ | 1.000 | 1.064 | 356.67 | 0.0000 | P | 7.5 |
| 3 | ☐ | 50.000 | 51.974 | 16565.63 | 0.0009 | P | 0.2 |
| 4 | ☐ | 125.000 | 127.638 | 41296.22 | 0.0021 | P | 2.6 |
| 5 | ☐ | 250.000 | 260.627 | 83503.07 | 0.0043 | P | 2.2 |
| 6 | ☐ | 500.000 | 495.139 | 157458.02 | 0.0081 | P | 0.5 |
| 7 | ☐ | 1000.000 | 999.345 | 314751.20 | 0.0164 | P | 1.8 |
| 8 | ☐ | | | 200.00 | 0.0000 | P | 13.5 |

y = 1.6415E-005 * x + 8.8904E-007
R = 0.9999
DL = 0.1033
BEC = 0.05416

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 95.56 | 0.0000 | P | 7.4 |
| 2 | ☐ | 1.000 | 1.065 | 20585.50 | 0.0011 | P | 2.2 |
| 3 | ☐ | 50.000 | 51.439 | 987783.73 | 0.0509 | P | 1.2 |
| 4 | ☐ | 125.000 | 131.325 | 2561557.32 | 0.1300 | A | 0.8 |
| 5 | ☐ | 250.000 | 264.209 | 5104147.04 | 0.2615 | A | 1.7 |
| 6 | ☐ | 500.000 | 501.417 | 9614332.85 | 0.4964 | A | 1.9 |
| 7 | ☐ | 1000.000 | 994.876 | 18896638.75 | 0.9848 | A | 0.8 |
| 8 | ☐ | | | 2398.02 | 0.0001 | P | 9.9 |

y = 9.8990E-004 * x + 4.8173E-006
R = 0.9999
DL = 0.001081
BEC = 0.004867

Weight: <None>
Min Conc: 0

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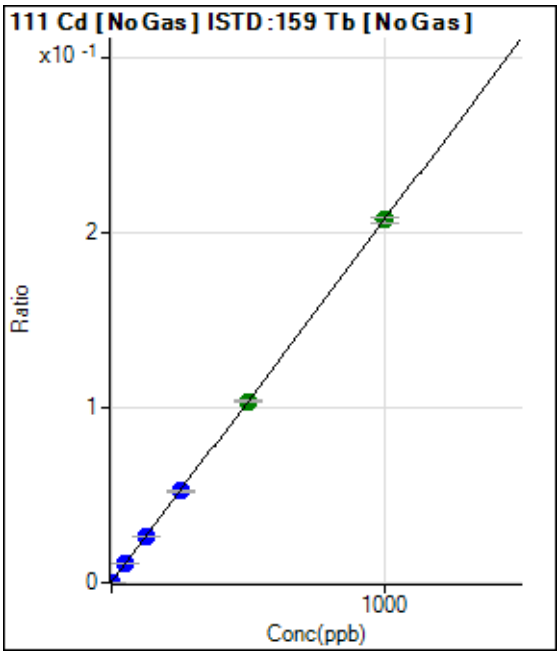
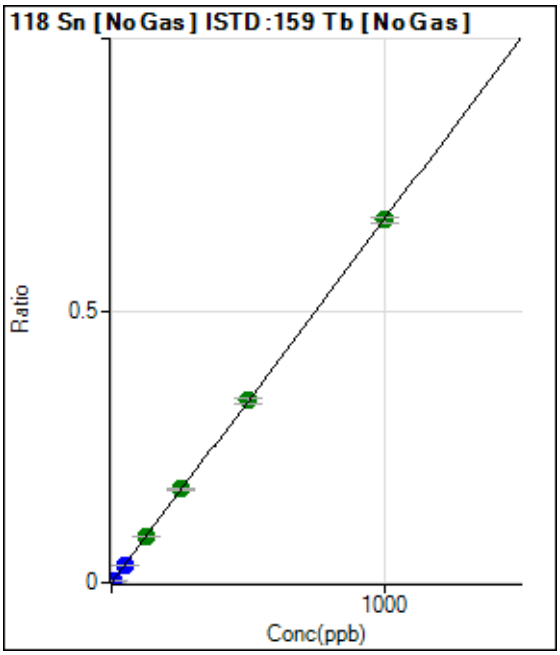



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5675.95 | 0.0003 | P | 1.9 |
| 2 | ☐ | 1.000 | 1.149 | 10193.87 | 0.0005 | P | 1.4 |
| 3 | ☐ | 50.000 | 50.490 | 208260.39 | 0.0107 | P | 1.0 |
| 4 | ☐ | 125.000 | 124.664 | 514043.12 | 0.0261 | P | 1.5 |
| 5 | ☐ | 250.000 | 252.841 | 1026835.55 | 0.0526 | P | 2.4 |
| 6 | ☐ | 500.000 | 499.405 | 2007874.40 | 0.1037 | A | 0.7 |
| 7 | ☐ | 1000.000 | 999.605 | 3975217.70 | 0.2072 | A | 1.5 |
| 8 | ☐ | | | 5598.93 | 0.0003 | P | 0.2 |

y = 2.0698E-004 * x + 2.8659E-004
R = 1.0000
DL = 0.07957
BEC = 1.385

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2081.36 | 0.0001 | P | 8.4 |
| 2 | ☐ | 5.000 | 5.462 | 73027.63 | 0.0038 | P | 2.7 |
| 3 | ☐ | 50.000 | 49.871 | 648927.15 | 0.0335 | P | 0.6 |
| 4 | ☐ | 125.000 | 126.722 | 1671888.95 | 0.0848 | A | 0.4 |
| 5 | ☐ | 250.000 | 256.830 | 3354170.16 | 0.1719 | A | 1.1 |
| 6 | ☐ | 500.000 | 500.001 | 6478751.85 | 0.3345 | A | 2.3 |
| 7 | ☐ | 1000.000 | 998.081 | 12808427.86 | 0.6676 | A | 1.3 |
| 8 | ☐ | | | 4315.17 | 0.0002 | P | 1.8 |

y = 6.6873E-004 * x + 1.0514E-004
R = 1.0000
DL = 0.0397
BEC = 0.1572

Weight: <None>
Min Conc: 0

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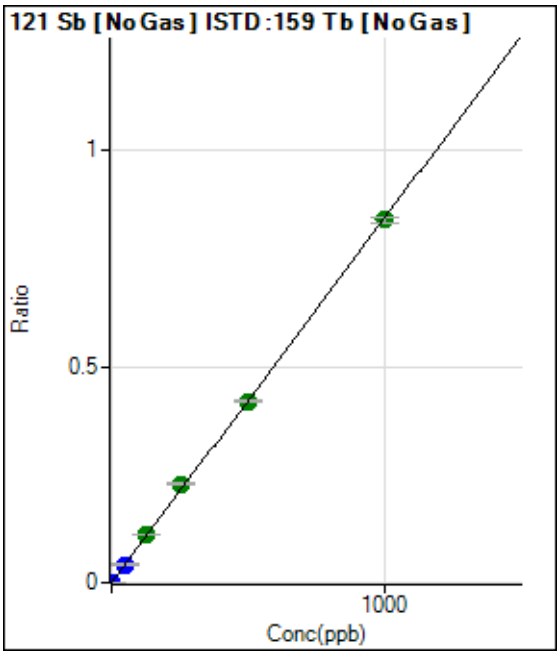
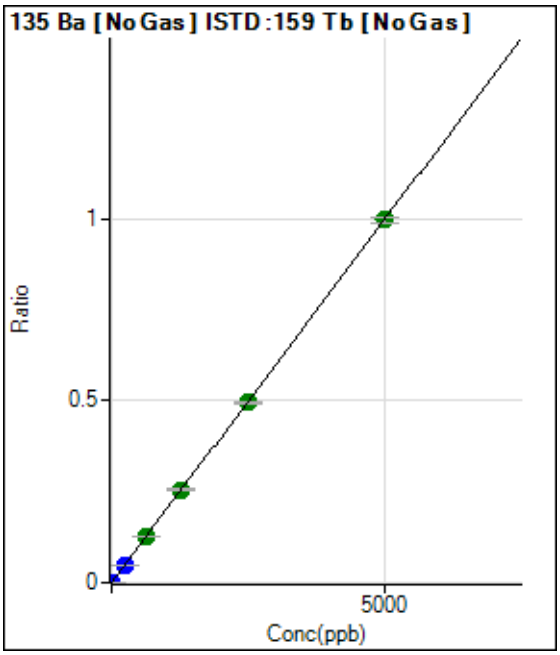



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 47.78 | 0.0000 | P | 11.6 |
| 2 | ☐ | 2.000 | 2.188 | 35889.24 | 0.0018 | P | 2.6 |
| 3 | ☐ | 50.000 | 50.107 | 819217.98 | 0.0422 | P | 1.0 |
| 4 | ☐ | 125.000 | 130.501 | 2167335.47 | 0.1100 | A | 1.5 |
| 5 | ☐ | 250.000 | 270.473 | 4448843.55 | 0.2280 | A | 1.9 |
| 6 | ☐ | 500.000 | 497.794 | 8127108.42 | 0.4196 | A | 1.5 |
| 7 | ☐ | 1000.000 | 995.291 | 16096043.79 | 0.8389 | A | 1.4 |
| 8 | ☐ | | | 6288.17 | 0.0004 | P | 3.8 |

y = 8.4285E-004 * x + 2.4137E-006
R = 0.9998
DL = 0.001
BEC = 0.002864

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 67.78 | 0.0000 | P | 35.9 |
| 2 | ☐ | 10.000 | 10.701 | 41501.17 | 0.0021 | P | 3.1 |
| 3 | ☐ | 250.000 | 244.126 | 943557.44 | 0.0486 | P | 0.6 |
| 4 | ☐ | 625.000 | 639.104 | 2509160.40 | 0.1273 | A | 1.7 |
| 5 | ☐ | 1250.000 | 1282.208 | 4985735.62 | 0.2555 | A | 1.8 |
| 6 | ☐ | 2500.000 | 2485.365 | 9592317.57 | 0.4952 | A | 1.3 |
| 7 | ☐ | 5000.000 | 4997.795 | 19107089.44 | 0.9958 | A | 1.4 |
| 8 | ☐ | | | 6960.76 | 0.0004 | P | 4.5 |

y = 1.9925E-004 * x + 3.4069E-006
R = 1.0000
DL = 0.01839
BEC = 0.0171

Weight: <None>
Min Conc: 0

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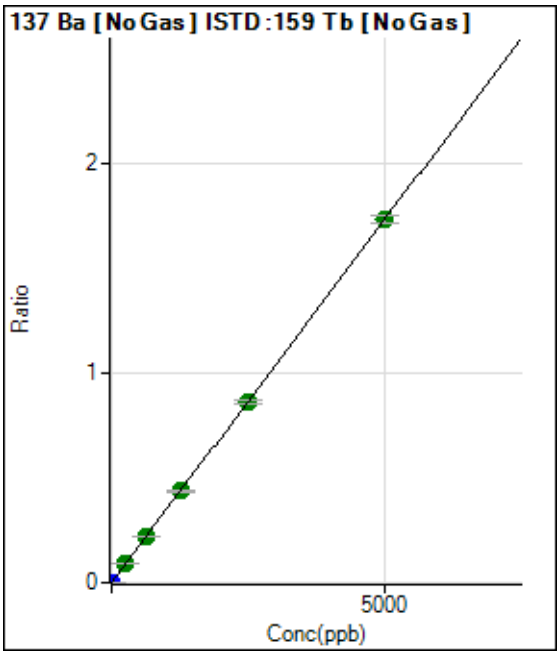
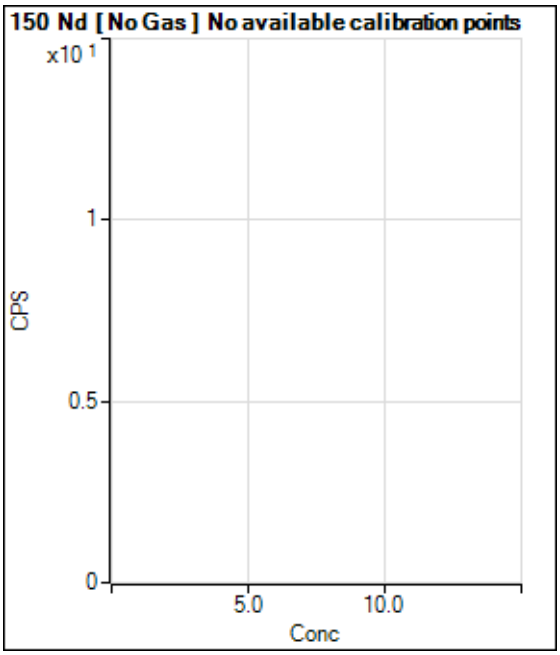



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 110.00 | 0.0000 | P | 10.7 |
| 2 | ☐ | 10.000 | 10.673 | 71882.90 | 0.0037 | P | 2.0 |
| 3 | ☐ | 250.000 | 252.966 | 1697894.49 | 0.0875 | A | 0.4 |
| 4 | ☐ | 625.000 | 627.669 | 4279676.67 | 0.2172 | A | 0.9 |
| 5 | ☐ | 1250.000 | 1265.989 | 8548903.00 | 0.4381 | A | 1.7 |
| 6 | ☐ | 2500.000 | 2494.153 | 16716867.80 | 0.8630 | A | 1.5 |
| 7 | ☐ | 5000.000 | 4998.443 | 33183120.62 | 1.7296 | A | 2.2 |
| 8 | ☐ | | | 12433.60 | 0.0007 | P | 3.1 |

y = 3.4602E-004 * x + 5.5522E-006
R = 1.0000
DL = 0.005128
BEC = 0.01605

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 11.11 | | P | 17.3 |
| 2 | ☐ | | | 11.11 | | P | 45.8 |
| 3 | ☐ | | | 64.45 | | P | 26.0 |
| 4 | ☐ | | | 177.78 | | P | 8.5 |
| 5 | ☐ | | | 295.56 | | P | 6.8 |
| 6 | ☐ | | | 547.80 | | P | 0.7 |
| 7 | ☐ | | | 1197.84 | | P | 9.4 |
| 8 | ☐ | | | 321.12 | | P | 8.1 |

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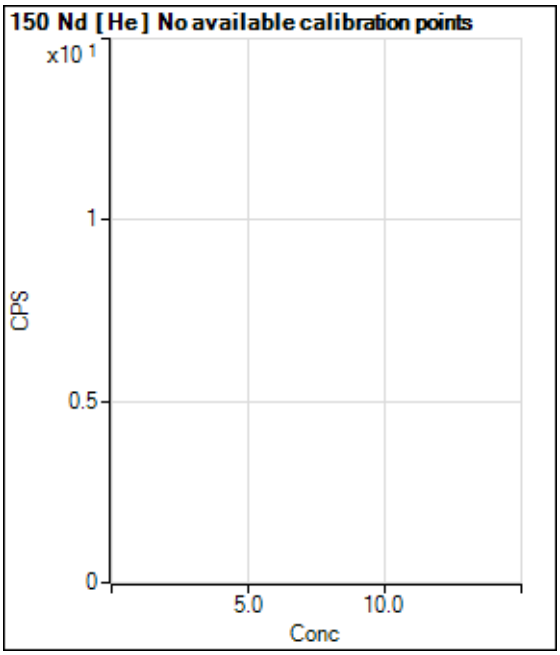
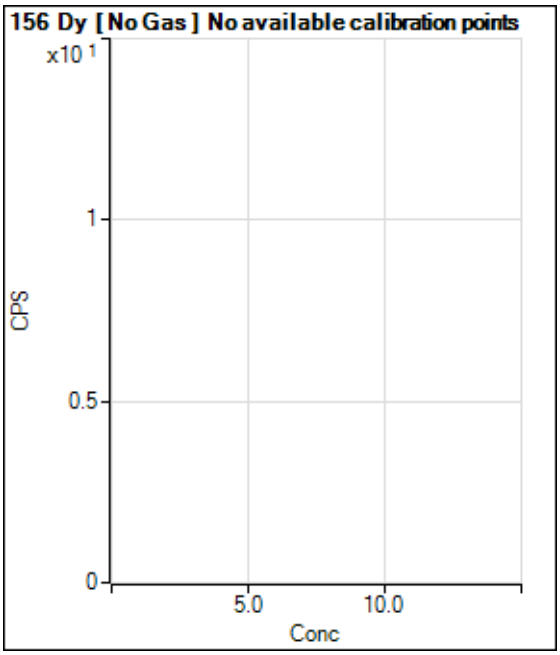



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 0.00 | | P | |
| 2 | ☐ | | | 2.22 | | P | 173. |
| 3 | ☐ | | | 5.56 | | P | 34.7 |
| 4 | ☐ | | | 13.33 | | P | 25.0 |
| 5 | ☐ | | | 5.56 | | P | 34.7 |
| 6 | ☐ | | | 22.22 | | P | 22.9 |
| 7 | ☐ | | | 43.33 | | P | NaN |
| 8 | ☐ | | | 74.44 | | P | 2.6 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 17.78 | | P | 10.8 |
| 2 | ☐ | | | 13.33 | | P | 90.2 |
| 3 | ☐ | | | 24.44 | | P | 56.8 |
| 4 | ☐ | | | 46.67 | | P | 18.9 |
| 5 | ☐ | | | 102.22 | | P | 11.5 |
| 6 | ☐ | | | 198.89 | | P | 4.8 |
| 7 | ☐ | | | 328.90 | | P | 12.1 |
| 8 | ☐ | | | 590.02 | | P | 16.4 |

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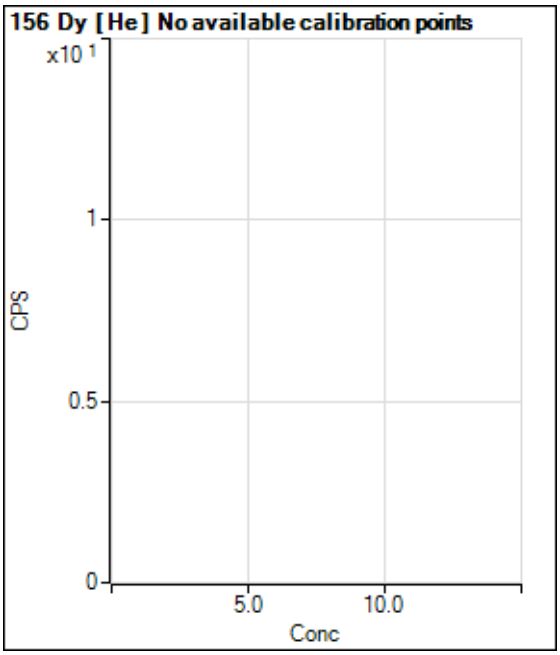
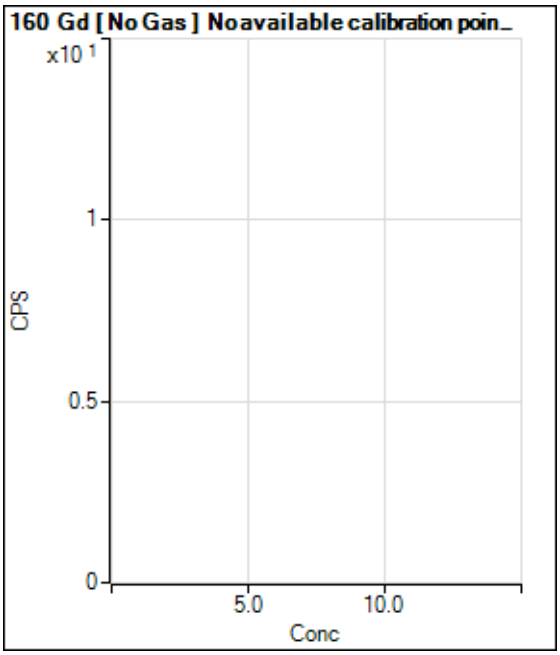



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 3.33 | | P | 0.0 |
| 2 | ☐ | | | 7.78 | | P | 89.2 |
| 3 | ☐ | | | 2.22 | | P | 173. |
| 4 | ☐ | | | 13.34 | | P | 43.3 |
| 5 | ☐ | | | 15.56 | | P | 53.9 |
| 6 | ☐ | | | 30.00 | | P | 29.4 |
| 7 | ☐ | | | 58.89 | | P | 23.6 |
| 8 | ☐ | | | 214.45 | | P | 6.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 133.34 | | P | 6.6 |
| 2 | ☐ | | | 113.33 | | P | 19.3 |
| 3 | ☐ | | | 116.67 | | P | 8.6 |
| 4 | ☐ | | | 124.45 | | P | 16.1 |
| 5 | ☐ | | | 168.89 | | P | 7.5 |
| 6 | ☐ | | | 188.89 | | P | 13.2 |
| 7 | ☐ | | | 241.12 | | P | 7.1 |
| 8 | ☐ | | | 656.69 | | P | 3.5 |

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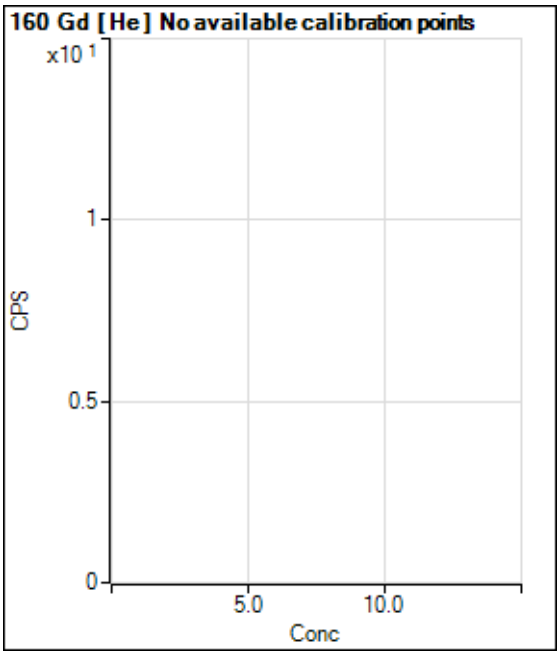
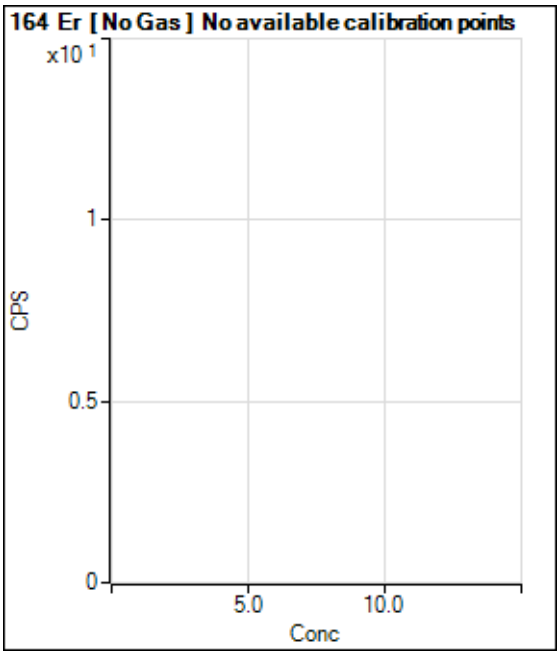



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 23.33 | | P | 42.9 |
| 2 | ☐ | | | 25.56 | | P | 32.8 |
| 3 | ☐ | | | 41.11 | | P | 12.4 |
| 4 | ☐ | | | 42.22 | | P | 44.9 |
| 5 | ☐ | | | 36.67 | | P | 55.3 |
| 6 | ☐ | | | 64.44 | | P | 25.5 |
| 7 | ☐ | | | 77.78 | | P | 24.4 |
| 8 | ☐ | | | 286.67 | | P | 12.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 104.45 | | P | 32.0 |
| 2 | ☐ | | | 93.34 | | P | 12.9 |
| 3 | ☐ | | | 114.45 | | P | 11.8 |
| 4 | ☐ | | | 123.34 | | P | 21.1 |
| 5 | ☐ | | | 145.56 | | P | 10.3 |
| 6 | ☐ | | | 194.45 | | P | 9.4 |
| 7 | ☐ | | | 253.34 | | P | 11.7 |
| 8 | ☐ | | | 740.03 | | P | 0.4 |

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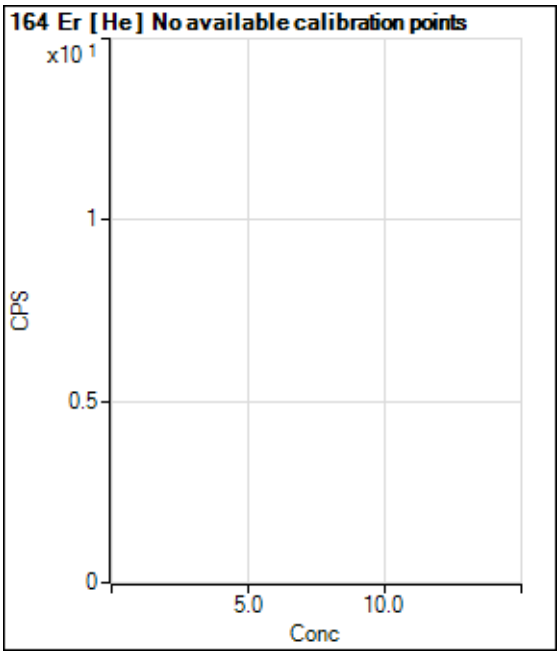
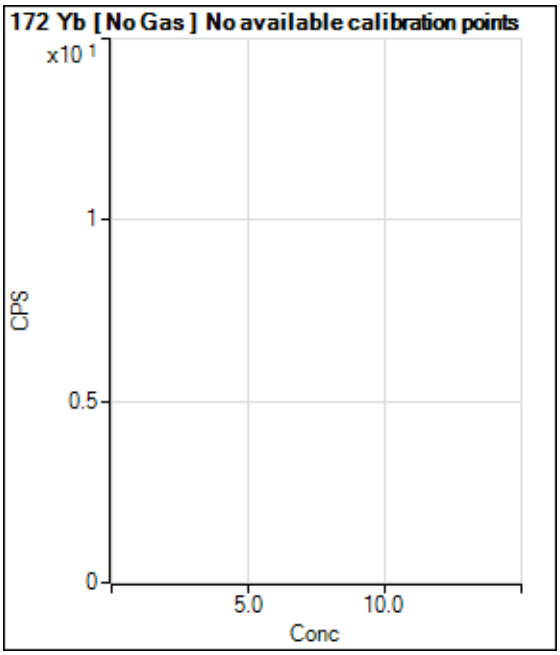



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 30.00 | | P | 44.4 |
| 2 | ☐ | | | 24.44 | | P | 20.8 |
| 3 | ☐ | | | 33.33 | | P | 17.3 |
| 4 | ☐ | | | 44.45 | | P | 8.7 |
| 5 | ☐ | | | 58.89 | | P | 11.8 |
| 6 | ☐ | | | 54.44 | | P | 31.4 |
| 7 | ☐ | | | 82.22 | | P | 26.4 |
| 8 | ☐ | | | 261.12 | | P | 4.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 98.89 | | P | 36.0 |
| 2 | ☐ | | | 93.34 | | P | 12.4 |
| 3 | ☐ | | | 115.56 | | P | 26.2 |
| 4 | ☐ | | | 120.00 | | P | 16.9 |
| 5 | ☐ | | | 168.89 | | P | 17.2 |
| 6 | ☐ | | | 194.45 | | P | 29.6 |
| 7 | ☐ | | | 260.01 | | P | 20.6 |
| 8 | ☐ | | | 882.26 | | P | 3.3 |

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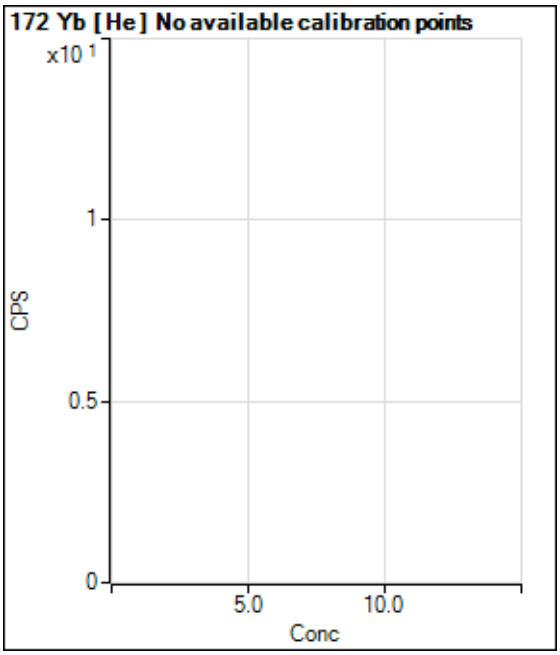
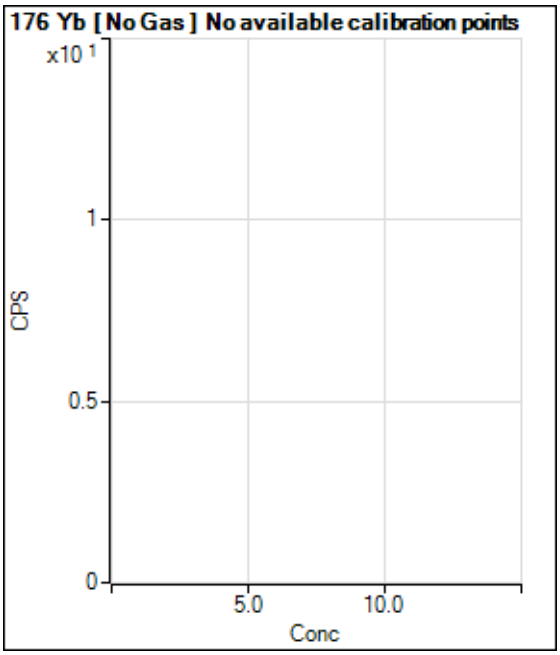



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 46.66 | | P | 44.6 |
| 2 | ☐ | | | 40.00 | | P | 22.0 |
| 3 | ☐ | | | 48.89 | | P | 10.4 |
| 4 | ☐ | | | 64.44 | | P | 42.1 |
| 5 | ☐ | | | 56.67 | | P | 23.5 |
| 6 | ☐ | | | 81.11 | | P | 12.6 |
| 7 | ☐ | | | 100.00 | | P | 23.1 |
| 8 | ☐ | | | 374.45 | | P | 8.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 2030.18 | | P | 7.9 |
| 2 | ☐ | | | 1947.94 | | P | 1.7 |
| 3 | ☐ | | | 5612.35 | | P | 0.8 |
| 4 | ☐ | | | 10736.69 | | P | 1.7 |
| 5 | ☐ | | | 20343.54 | | P | 1.0 |
| 6 | ☐ | | | 38094.81 | | P | 0.5 |
| 7 | ☐ | | | 74668.41 | | P | 0.8 |
| 8 | ☐ | | | 2258.00 | | P | 2.7 |

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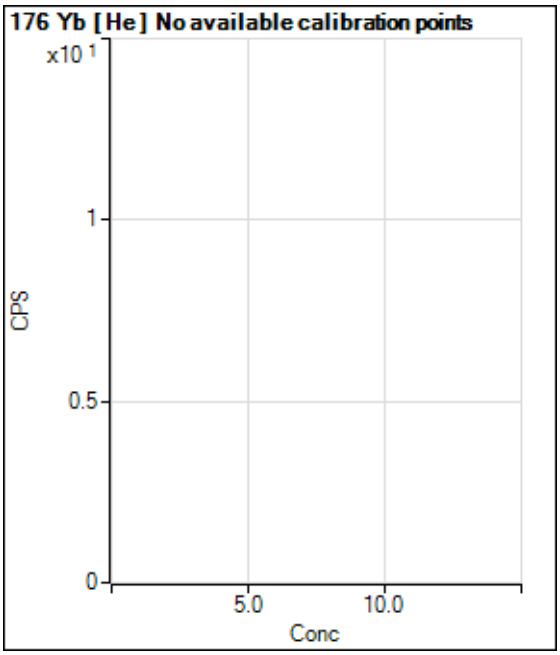
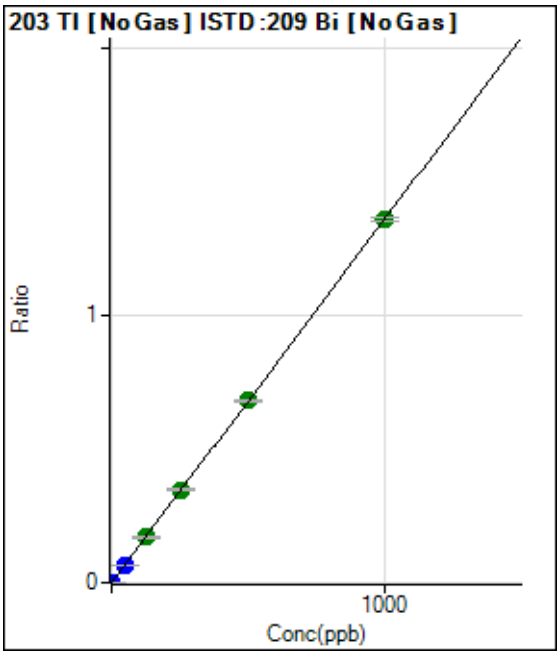



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 456.68 | | P | 9.1 |
| 2 | ☐ | | | 427.79 | | P | 6.6 |
| 3 | ☐ | | | 1837.92 | | P | 4.4 |
| 4 | ☐ | | | 3927.29 | | P | 0.9 |
| 5 | ☐ | | | 7547.79 | | P | 2.5 |
| 6 | ☐ | | | 14558.12 | | P | 0.9 |
| 7 | ☐ | | | 28305.94 | | P | 1.6 |
| 8 | ☐ | | | 582.24 | | P | 7.1 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 231.12 | 0.0000 | P | 11.8 |
| 2 | ☐ | 1.000 | 1.012 | 16636.27 | 0.0014 | P | 1.4 |
| 3 | ☐ | 50.000 | 47.310 | 770408.67 | 0.0643 | P | 0.8 |
| 4 | ☐ | 125.000 | 124.819 | 2011165.61 | 0.1695 | A | 1.2 |
| 5 | ☐ | 250.000 | 254.907 | 4105537.86 | 0.3462 | A | 1.5 |
| 6 | ☐ | 500.000 | 500.647 | 7822424.54 | 0.6799 | A | 0.7 |
| 7 | ☐ | 1000.000 | 998.607 | 15468166.85 | 1.3560 | A | 1.2 |
| 8 | ☐ | | | 1546.78 | 0.0002 | P | 13.8 |

y = 0.0014 * x + 1.8642E-005
R = 1.0000
DL = 0.00486
BEC = 0.01373

Weight: <None>
Min Conc: 0

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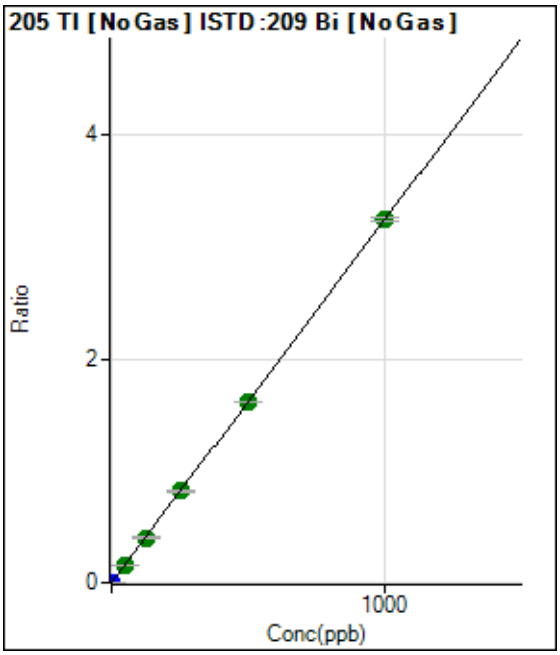
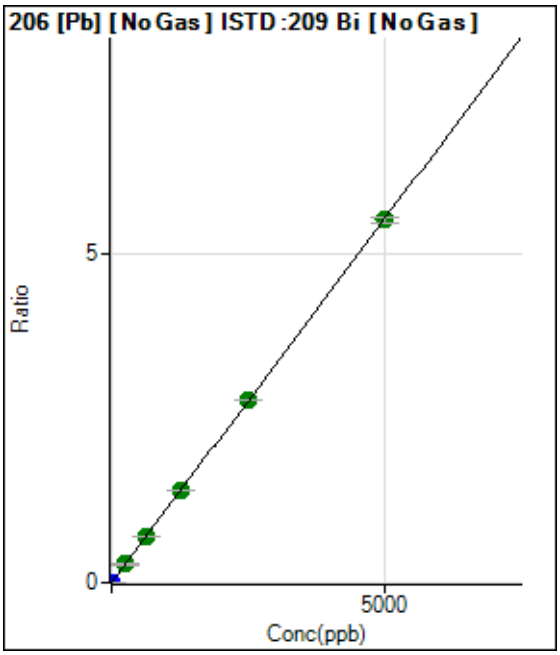



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 496.68 | 0.0000 | P | 5.5 |
| 2 | ☐ | 1.000 | 1.042 | 40767.14 | 0.0034 | P | 1.0 |
| 3 | ☐ | 50.000 | 49.929 | 1938746.50 | 0.1617 | A | 1.0 |
| 4 | ☐ | 125.000 | 124.465 | 4781900.24 | 0.4030 | A | 1.1 |
| 5 | ☐ | 250.000 | 253.563 | 9737737.63 | 0.8211 | A | 1.7 |
| 6 | ☐ | 500.000 | 497.490 | 18533900.84 | 1.6109 | A | 0.5 |
| 7 | ☐ | 1000.000 | 1000.435 | 36951162.51 | 3.2394 | A | 1.0 |
| 8 | ☐ | | | 3778.43 | 0.0004 | P | 15.6 |

y = 0.0032 * x + 4.0133E-005
R = 1.0000
DL = 0.00205
BEC = 0.01239

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1345.64 | 0.0001 | P | 4.3 |
| 2 | ☐ | 1.000 | 1.031 | 14935.39 | 0.0013 | P | 1.6 |
| 3 | ☐ | 250.000 | 251.372 | 3341626.24 | 0.2787 | A | 1.9 |
| 4 | ☐ | 625.000 | 625.642 | 8227418.91 | 0.6935 | A | 1.2 |
| 5 | ☐ | 1250.000 | 1273.710 | 16742879.75 | 1.4117 | A | 1.3 |
| 6 | ☐ | 2500.000 | 2508.984 | 31992105.36 | 2.7806 | A | 0.7 |
| 7 | ☐ | 5000.000 | 4989.432 | 63072056.28 | 5.5295 | A | 1.7 |
| 8 | ☐ | | | 15003.29 | 0.0015 | P | 2.4 |

y = 0.0011 * x + 1.0879E-004
R = 1.0000
DL = 0.0128
BEC = 0.09817

Weight: <None>
Min Conc: 0

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On:2/7/2025 11:31:39 AM
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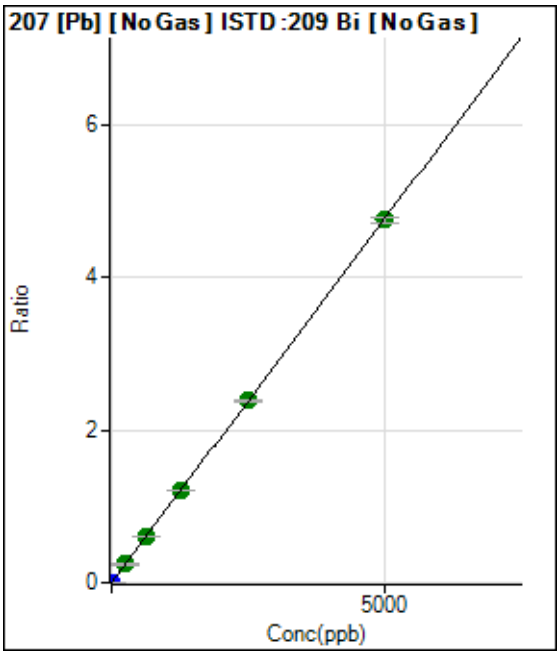
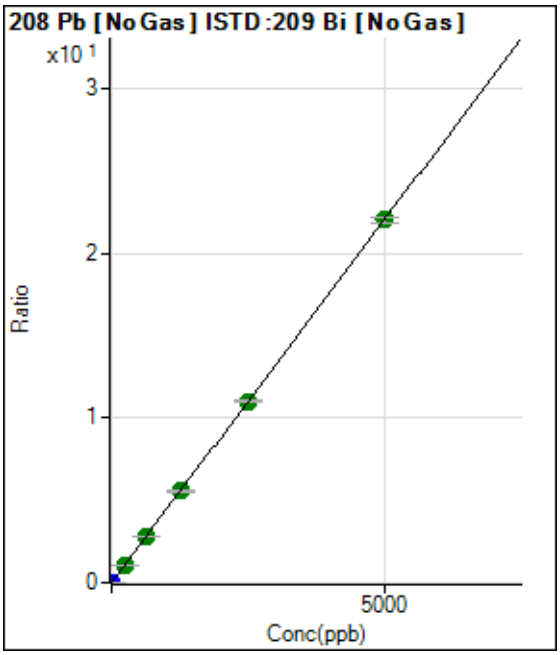



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1125.62 | 0.0001 | P | 3.0 |
| 2 | ☐ | 1.000 | 1.037 | 12896.51 | 0.0011 | P | 0.5 |
| 3 | ☐ | 250.000 | 251.470 | 2877703.19 | 0.2400 | A | 1.7 |
| 4 | ☐ | 625.000 | 629.841 | 7131591.21 | 0.6011 | A | 0.6 |
| 5 | ☐ | 1250.000 | 1267.582 | 14347356.18 | 1.2096 | A | 1.0 |
| 6 | ☐ | 2500.000 | 2511.731 | 27576696.26 | 2.3968 | A | 1.1 |
| 7 | ☐ | 5000.000 | 4989.060 | 54303627.52 | 4.7607 | A | 1.5 |
| 8 | ☐ | | | 12849.85 | 0.0013 | P | 2.4 |

y = 9.5421E-004 * x + 9.0983E-005
R = 1.0000
DL = 0.008663
BEC = 0.09535

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5126.00 | 0.0004 | P | 1.7 |
| 2 | ☐ | 1.000 | 1.024 | 58879.12 | 0.0049 | P | 0.3 |
| 3 | ☐ | 250.000 | 249.386 | 13196943.35 | 1.1008 | A | 0.9 |
| 4 | ☐ | 625.000 | 625.454 | 32747204.30 | 2.7601 | A | 0.4 |
| 5 | ☐ | 1250.000 | 1266.237 | 66269760.96 | 5.5875 | A | 1.4 |
| 6 | ☐ | 2500.000 | 2497.012 | 126767311.1 | 11.0181 | A | 0.9 |
| 7 | ☐ | 5000.000 | 4997.409 | 251524314.0 | 22.0507 | A | 1.4 |
| 8 | ☐ | | | 59100.96 | 0.0061 | P | 1.6 |

y = 0.0044 * x + 4.1445E-004
R = 1.0000
DL = 0.004706
BEC = 0.09393

Weight: <None>
Min Conc: 0

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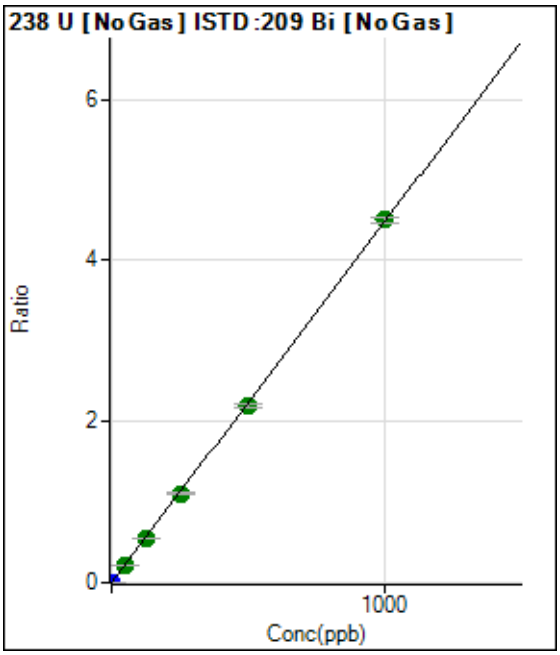



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 106.67 | 0.0000 | P | 21.7 |
| 2 | ☐ | 1.000 | 0.966 | 51769.40 | 0.0043 | P | 0.6 |
| 3 | ☐ | 50.000 | 47.879 | 2571501.92 | 0.2145 | A | 2.3 |
| 4 | ☐ | 125.000 | 121.552 | 6461255.11 | 0.5446 | A | 1.2 |
| 5 | ☐ | 250.000 | 247.351 | 13143452.58 | 1.1082 | A | 1.5 |
| 6 | ☐ | 500.000 | 491.403 | 25328530.73 | 2.2016 | A | 2.7 |
| 7 | ☐ | 1000.000 | 1005.498 | 51387101.46 | 4.5049 | A | 1.4 |
| 8 | ☐ | | | 2998.25 | 0.0003 | P | 18.3 |

y = 0.0045 * x + 8.6527E-006

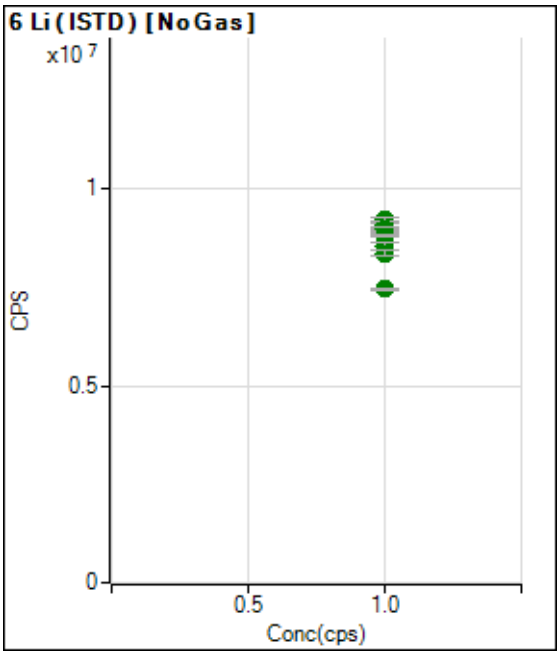
R = 0.9999

DL = 0.001256

BEC = 0.001931

Weight: <None>

Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 9059528.82 | | A | 1.4 |
| 2 | ☐ | 1.000 | | 9205242.38 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 8973925.67 | | A | 0.7 |
| 4 | ☐ | 1.000 | | 8962799.98 | | A | 1.6 |
| 5 | ☐ | 1.000 | | 8798351.58 | | A | 0.9 |
| 6 | ☐ | 1.000 | | 8537525.63 | | A | 1.9 |
| 7 | ☐ | 1.000 | | 8366531.80 | | A | 1.3 |
| 8 | ☐ | 1.000 | | 7450189.26 | | A | 0.4 |

Reviewed By:Mohan
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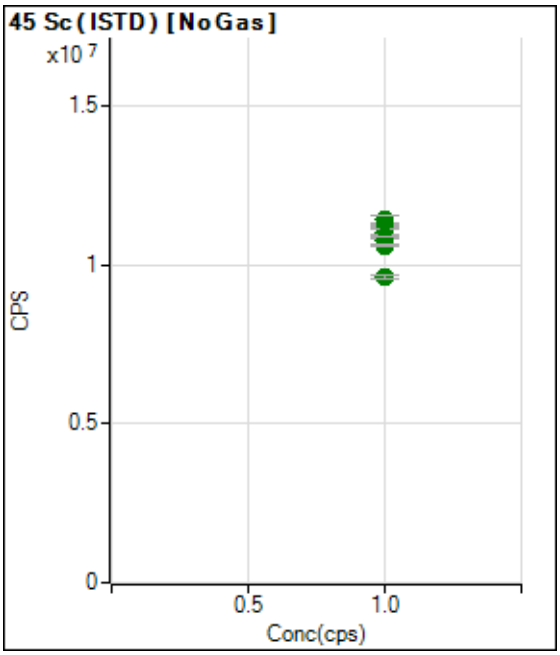
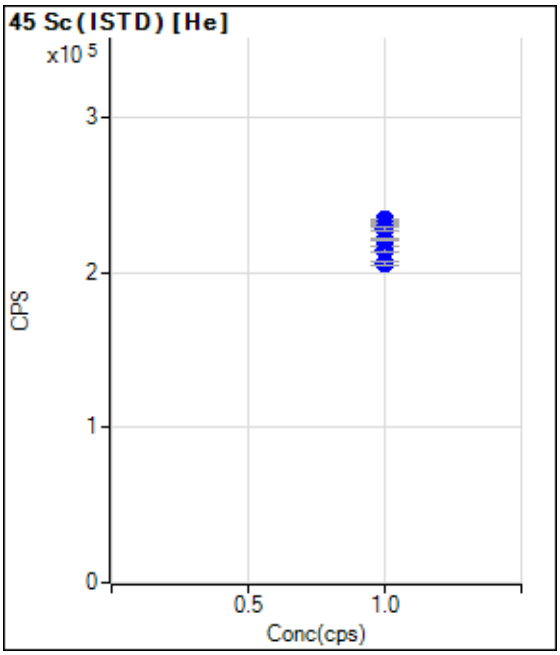



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 11422453.30 | | A | 2.2 |
| 2 | ☐ | 1.000 | | 11246345.80 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 11137179.14 | | A | 0.3 |
| 4 | ☐ | 1.000 | | 11028798.45 | | A | 2.2 |
| 5 | ☐ | 1.000 | | 10890753.17 | | A | 0.9 |
| 6 | ☐ | 1.000 | | 10764805.81 | | A | 2.4 |
| 7 | ☐ | 1.000 | | 10610564.28 | | A | 0.4 |
| 8 | ☐ | 1.000 | | 9630328.54 | | A | 0.9 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 234117.65 | | P | 0.8 |
| 2 | ☐ | 1.000 | | 233687.50 | | P | 0.4 |
| 3 | ☐ | 1.000 | | 231331.89 | | P | 1.5 |
| 4 | ☐ | 1.000 | | 230889.13 | | P | 0.6 |
| 5 | ☐ | 1.000 | | 228563.17 | | P | 0.8 |
| 6 | ☐ | 1.000 | | 215132.96 | | P | 1.4 |
| 7 | ☐ | 1.000 | | 221258.57 | | P | 0.5 |
| 8 | ☐ | 1.000 | | 205683.33 | | P | 1.0 |

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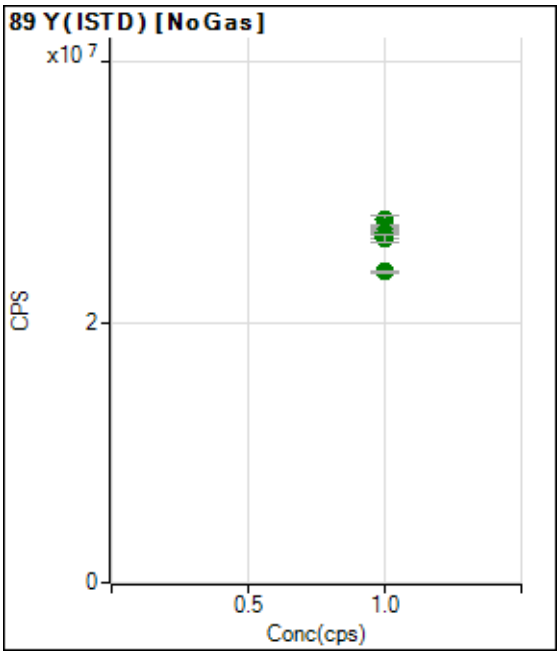
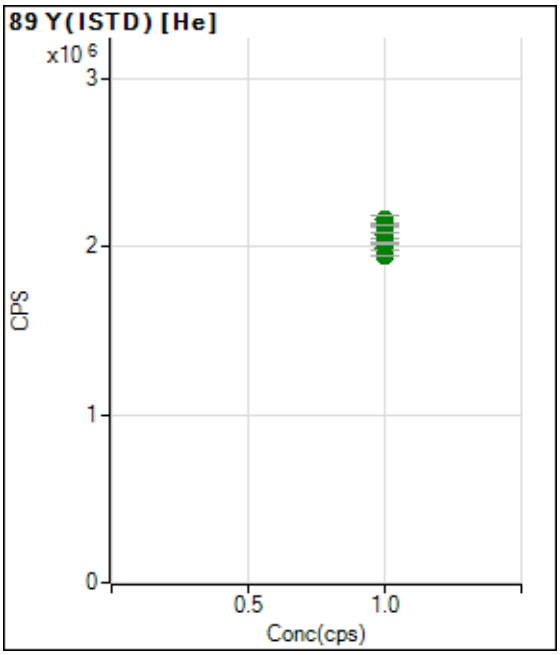



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | | 1.000 | | 27877719.58 | | A | 2.4 |
| 2 | | 1.000 | | 27345740.98 | | A | 1.1 |
| 3 | | 1.000 | | 27011582.10 | | A | 1.0 |
| 4 | | 1.000 | | 27409621.54 | | A | 0.9 |
| 5 | | 1.000 | | 26912505.43 | | A | 0.9 |
| 6 | | 1.000 | | 26648388.22 | | A | 1.0 |
| 7 | | 1.000 | | 26440432.66 | | A | 1.8 |
| 8 | | 1.000 | | 23880634.09 | | A | 0.7 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | | 1.000 | | 2161282.02 | | A | 2.1 |
| 2 | | 1.000 | | 2128321.86 | | A | 0.3 |
| 3 | | 1.000 | | 2126151.27 | | A | 0.8 |
| 4 | | 1.000 | | 2126856.65 | | A | 0.1 |
| 5 | | 1.000 | | 2072050.42 | | A | 1.6 |
| 6 | | 1.000 | | 1995577.23 | | A | 1.6 |
| 7 | | 1.000 | | 2024856.64 | | A | 0.8 |
| 8 | | 1.000 | | 1951034.92 | | A | 0.2 |

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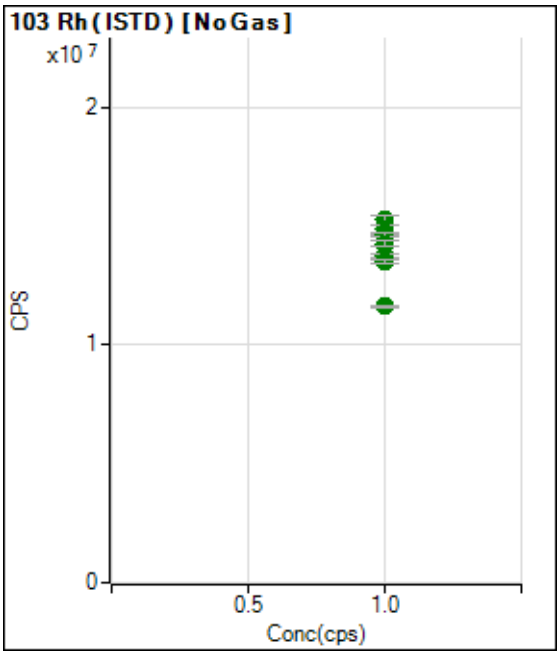
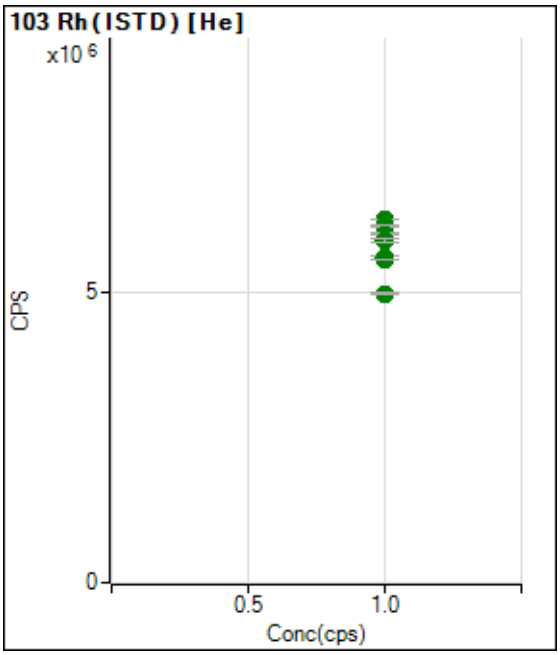



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 15250511.02 | | A | 2.9 |
| 2 | ☐ | 1.000 | | 14872047.56 | | A | 1.7 |
| 3 | ☐ | 1.000 | | 14690517.42 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 14643182.84 | | A | 1.3 |
| 5 | ☐ | 1.000 | | 14264099.09 | | A | 1.4 |
| 6 | ☐ | 1.000 | | 13769265.07 | | A | 1.0 |
| 7 | ☐ | 1.000 | | 13485853.27 | | A | 1.0 |
| 8 | ☐ | 1.000 | | 11623148.58 | | A | 0.6 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 6231494.49 | | A | 0.1 |
| 2 | ☐ | 1.000 | | 6129774.01 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 6120655.12 | | A | 0.3 |
| 4 | ☐ | 1.000 | | 5985959.29 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 5877366.10 | | A | 0.7 |
| 6 | ☐ | 1.000 | | 5583674.78 | | A | 1.1 |
| 7 | ☐ | 1.000 | | 5559929.22 | | A | 0.1 |
| 8 | ☐ | 1.000 | | 4965394.06 | | A | 0.8 |

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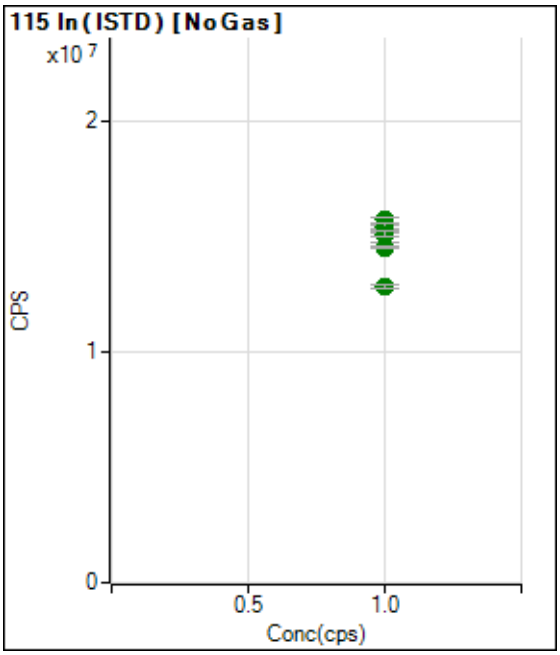
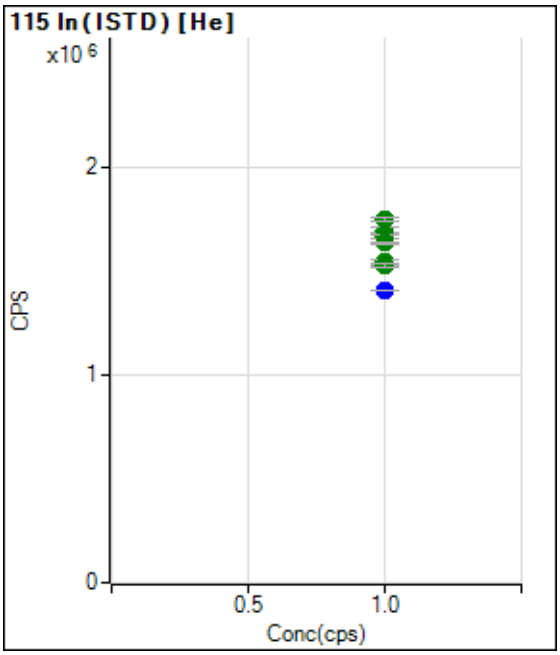
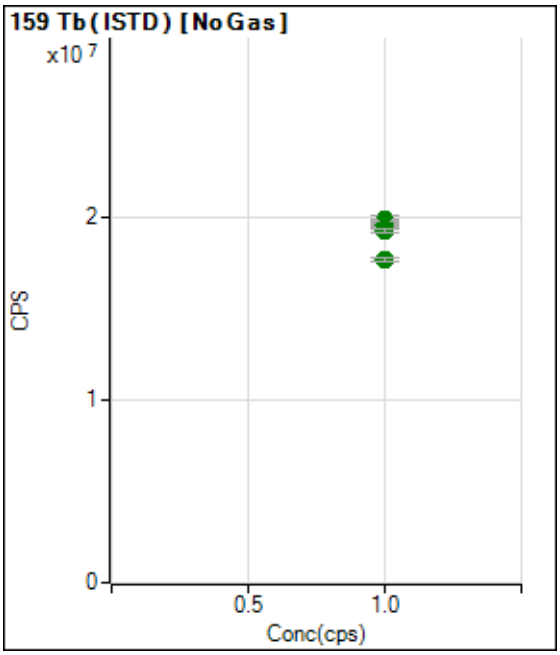



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 15753912.33 | | A | 1.8 |
| 2 | ☐ | 1.000 | | 15437188.50 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 15272069.31 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 15407629.29 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 15129807.85 | | A | 1.8 |
| 6 | ☐ | 1.000 | | 14648243.61 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 14557086.84 | | A | 0.2 |
| 8 | ☐ | 1.000 | | 12851021.98 | | A | 1.2 |

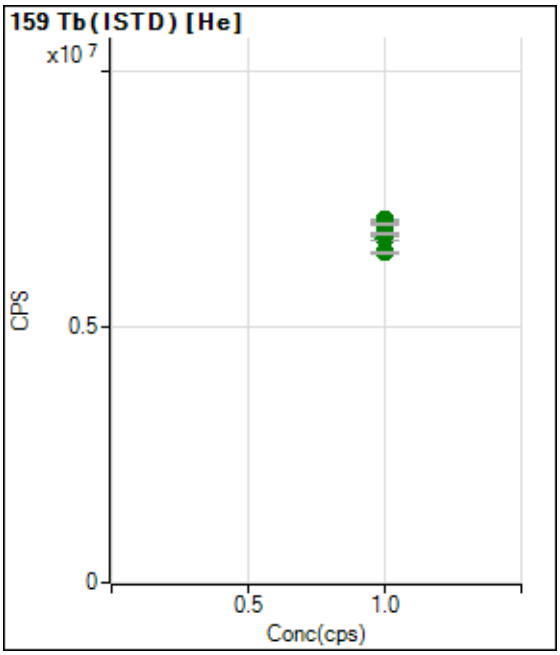



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1743791.67 | | A | 1.0 |
| 2 | ☐ | 1.000 | | 1693855.78 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 1676281.43 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 1662056.01 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 1634345.82 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 1540383.68 | | A | 2.1 |
| 7 | ☐ | 1.000 | | 1523998.87 | | A | 1.2 |
| 8 | ☐ | 1.000 | | 1404112.15 | | P | 0.2 |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 19810880.40 | | A | 2.6 |
| 2 | ☐ | 1.000 | | 19438155.41 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 19396632.21 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 19704896.09 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 19520114.29 | | A | 2.1 |
| 6 | ☐ | 1.000 | | 19371216.38 | | A | 0.6 |
| 7 | ☐ | 1.000 | | 19188779.72 | | A | 1.2 |
| 8 | ☐ | 1.000 | | 17641355.02 | | A | 0.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 7081215.03 | | A | 0.7 |
| 2 | ☐ | 1.000 | | 7036621.49 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 7094007.11 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 7068982.39 | | A | 0.1 |
| 5 | ☐ | 1.000 | | 6999528.37 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 6728111.29 | | A | 1.3 |
| 7 | ☐ | 1.000 | | 6824530.66 | | A | 0.8 |
| 8 | ☐ | 1.000 | | 6455927.89 | | A | 0.6 |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
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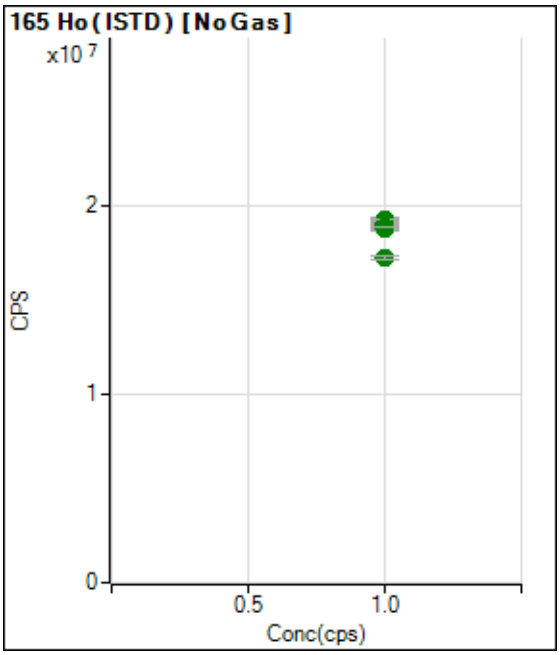
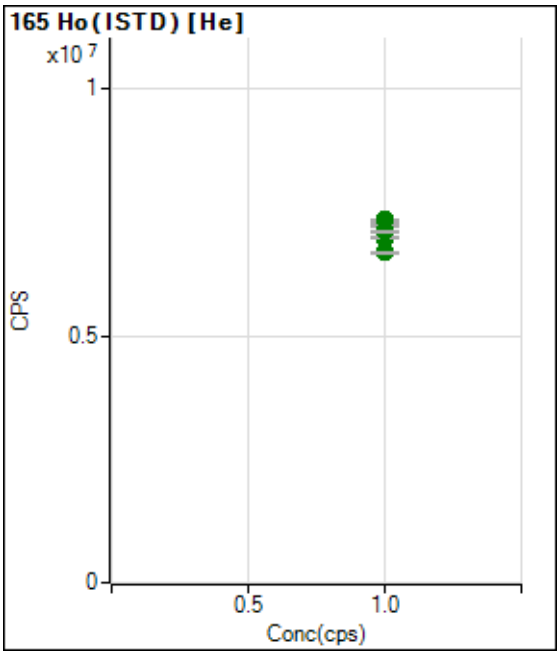
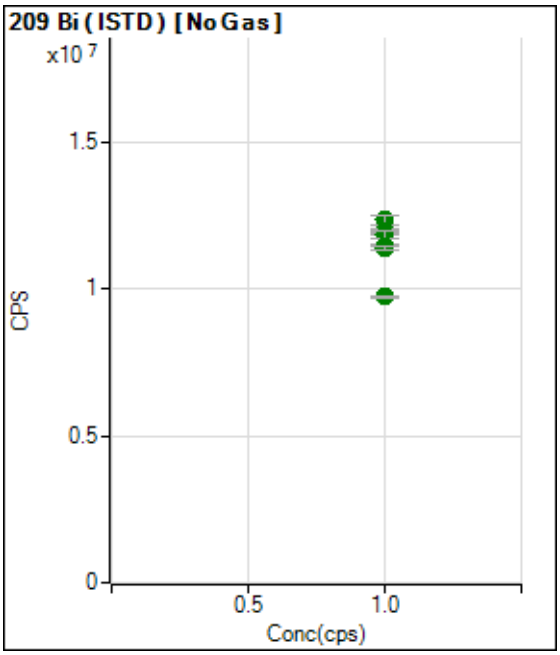



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 19166883.19 | | A | 1.9 |
| 2 | ☐ | 1.000 | | 18869168.89 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 18973812.77 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 19230723.88 | | A | 0.4 |
| 5 | ☐ | 1.000 | | 19072554.86 | | A | 2.1 |
| 6 | ☐ | 1.000 | | 18774583.61 | | A | 1.3 |
| 7 | ☐ | 1.000 | | 18839581.25 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 17218425.30 | | A | 0.9 |

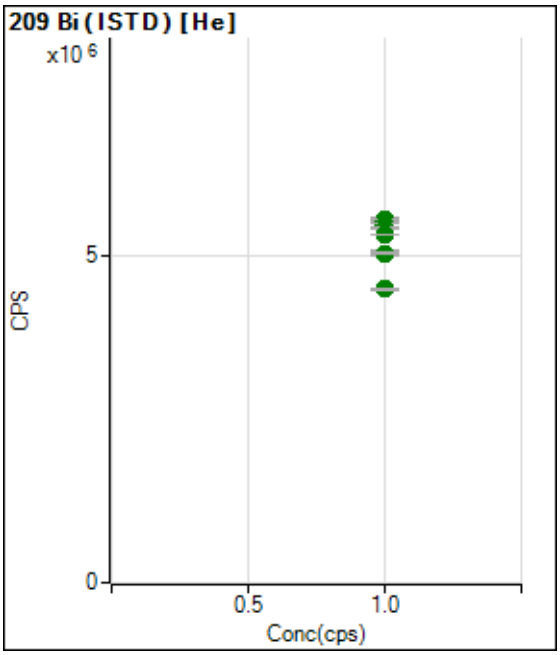



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 7348301.42 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 7256639.13 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 7212824.55 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 7304751.63 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 7227860.52 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 6978573.65 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 7111347.67 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 6690108.79 | | A | 0.5 |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 12371269.26 | | A | 2.7 |
| 2 | ☐ | 1.000 | | 11939242.04 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 11989498.16 | | A | 1.4 |
| 4 | ☐ | 1.000 | | 11864360.52 | | A | 0.1 |
| 5 | ☐ | 1.000 | | 11862431.91 | | A | 2.0 |
| 6 | ☐ | 1.000 | | 11505755.80 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 11407413.72 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 9749757.35 | | A | 0.7 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 5535397.97 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 5511954.43 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 5453267.00 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 5408916.45 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 5309387.04 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 5029689.06 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 5030385.48 | | A | 0.4 |
| 8 | ☐ | 1.000 | | 4483946.43 | | A | 0.8 |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8
ClientSampleId :TUNE001

# US EPA Tune Check Report

| | |
|---|---|
| **Operator Name** | Jaswal |
| **Acq/Data Batch** | D:\Agilent\ICPMH\1\DATA\P8020625MS.b |
| **Acq. Date-Time** | 2025-02-06 11:25:46 |
| **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 | | 34446 | 344463.40 | | | 1.541 | 5.000 |
| 24 | | 329372 | 3293722.22 | | | 1.582 | 5.000 |
| 25 | | 44166 | 441660.86 | | | 1.232 | 5.000 |
| 26 | | 50696 | 506958.33 | | | 1.541 | 5.000 |
| 59 | | 189032 | 1890321.81 | | | 1.621 | 5.000 |
| 113 | | 20040 | 200397.47 | | | 1.392 | 5.000 |
| 115 | | 264609 | 2646091.49 | | | 1.679 | 5.000 |
| 206 | | 59696 | 596964.50 | | | 0.762 | 5.000 |
| 207 | | 51823 | 518233.47 | | | 0.791 | 5.000 |
| 208 | | 129800 | 1298001.86 | | | 1.057 | 5.000 |
| 220 | | 1 | 5.80 | | | 7.711 | |

| Mass | RSD% (Flag) |
|---|---|
| 9 | |
| 24 | |
| 25 | |
| 26 | |
| 59 | |
| 113 | |
| 115 | |
| 206 | |
| 207 | |
| 208 | |
| 220 | |

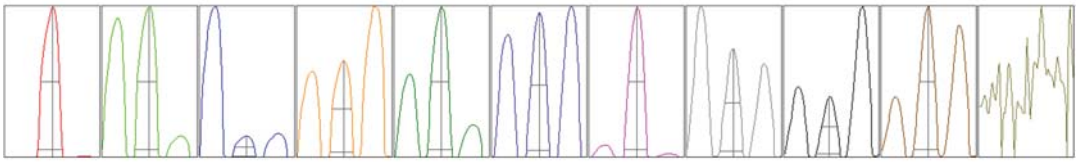
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 9 | 35218 | 34731 | 34316 | 33932 | 34034 |
| 24 | 336234 | 333683 | 325165 | 325178 | 326601 |
| 25 | 44842 | 44675 | 43752 | 43771 | 43791 |
| 26 | 51733 | 51320 | 50333 | 50053 | 50040 |
| 59 | 191821 | 192378 | 187892 | 188083 | 184987 |
| 113 | 20449 | 20196 | 19941 | 19828 | 19785 |
| 115 | 270665 | 268075 | 261231 | 261559 | 261516 |
| 206 | 60320 | 60016 | 59432 | 59223 | 59491 |
| 207 | 52287 | 52248 | 51591 | 51435 | 51556 |
| 208 | 131470 | 130869 | 128040 | 129195 | 129427 |

# US EPA Tune Check Report

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 220 | 1 | 1 | 1 | 1 | 1 |

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 63938.77 | 9.05 | 8.90 - 9.10 | |
| 24 | 577951.13 | 24.00 | 23.90 - 24.10 | |
| 25 | 78495.43 | 25.00 | 24.90 - 25.10 | |
| 26 | 88999.95 | 26.00 | 25.90 - 26.10 | |
| 59 | 358767.91 | 59.00 | 58.90 - 59.10 | |
| 113 | 41293.54 | 113.05 | 112.90 - 113.10 | |
| 115 | 544936.58 | 115.05 | 114.90 - 115.10 | |
| 206 | 123634.18 | 206.00 | 205.90 - 206.10 | |
| 207 | 107028.64 | 206.95 | 206.90 - 207.10 | |
| 208 | 266325.64 | 208.00 | 207.90 - 208.10 | |
| 220 | | | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.58 | 0.773 | 0.900 | |
| 24 | 0.61 | 0.740 | 0.900 | |
| 25 | 0.61 | 0.737 | 0.900 | |
| 26 | 0.61 | 0.740 | 0.900 | |
| 59 | 0.55 | 0.768 | 0.900 | |
| 113 | 0.50 | 0.722 | 0.900 | |
| 115 | 0.50 | 0.722 | 0.900 | |
| 206 | 0.48 | 0.739 | 0.900 | |
| 207 | 0.49 | 0.770 | 0.900 | |
| 208 | 0.49 | 0.768 | 0.900 | |
| 220 | | | | |

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

**Tune Parameters**

**Plasma Parameters**

Plasma Mode --- Nebulizer Gas 0.72 L/min Dilution Gas 0.40 L/min

# US EPA Tune Check Report

| | | | | | |
|---|---|---|---|---|---|
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.9 |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp | 2 °C | | |

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 8.6 V | Deflect | 14.2 V |
| Extract 2 | -215.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -105 V | Cell Exit | -50 V | | |

**Cell Parameters**

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

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 103 | Axis Gain | 0.9961 | QP Bias | -4.0 V |
| Mass Offset | 126 | Axis Offset | 0.03 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.2 mm | Torch V | 1.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.1 mV | Analog HV | 2176 V | Pulse HV | 1085 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 36659 | 366593.10 | | | 0.418 | |
| 89 | | 36943 | 369433.04 | | | 0.588 | |
| 205 | | 37881 | 378808.54 | | | 0.361 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 36846 | 36779 | 36652 | 36526 | 36495 |
| 89 | 37115 | 36880 | 37045 | 37086 | 36591 |
| 205 | 37736 | 37845 | 37929 | 38091 | 37803 |

Integration Time [sec] 0.1

**Tune Parameters**

**Plasma Parameters**

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 8.6 V | Deflect | 3.0 V |

# US EPA Tune Check Report

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8
ClientSampleId :TUNE001

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -215.0 V | Cell Entrance | -50 V | Plate Bias | -60 |
| Omega Bias | -105 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 | 0.9961 | QP Bias | -13.0 V |
| Mass Offset | 126 | Axis Offset | 0.03 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.2 mm | Torch V | 1.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.1 mV | Analog HV | 2176 V | Pulse HV | 1085 V |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.07 | 0.18 | -0.25 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | 0.00 | -0.01 | 0.01 | 0.00 | N/A | ppb |
| Barium | 135-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.00 | -0.03 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | -0.30 | 0.30 | 0.00 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | -0.03 | 0.03 | 0.00 | 0.00 | N/A | ppb |
| Calcium | 43-1 | 0.56 | -0.23 | -0.33 | 0.00 | N/A | ppb |
| Calcium | 44-1 | -0.20 | -0.40 | 0.59 | 0.00 | N/A | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.01 | 0.02 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Copper | 63-2 | -0.01 | -0.02 | 0.03 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | -0.33 | 0.00 | 0.33 | 0.00 | N/A | ppb |
| Iron | 56-2 | -0.15 | 0.02 | 0.13 | 0.00 | N/A | ppb |
| Iron | 57-2 | 0.15 | -0.33 | 0.18 | 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:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | 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 | -0.42 | -0.01 | 0.43 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | 0.01 | -0.02 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -14.77 | -25.39 | -14.47 | -18.21 | | ppb |
| Potassium | 39-2 | -0.87 | 1.20 | -0.34 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 0.02 | 0.00 | -0.02 | 0.00 | N/A | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.42 | 0.81 | -0.39 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -1.04 | 0.08 | 0.96 | 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 | -0.05 | -0.54 | 0.59 | 0.00 | N/A | ppb |
| Strontium | 86-1 | -0.02 | 0.00 | 0.02 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -346.96 | -48.82 | 140.76 | -85.01 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Tin | 118-1 | -0.01 | -0.01 | 0.02 | 0.00 | N/A | ppb |
| Titanium | 47-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | 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 | 0.00 | -0.02 | 0.01 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19.92 | 20.28 | 20.82 | 20.34 | 2.22 | ppb |
| Antimony | 121-1 | 2.15 | 2.25 | 2.16 | 2.19 | 2.58 | ppb |
| Arsenic | 75-2 | 1.02 | 1.26 | 1.03 | 1.10 | 12.23 | ppb |
| Barium | 135-1 | 10.46 | 11.08 | 10.57 | 10.70 | 3.07 | ppb |
| Barium | 137-1 | 10.64 | 10.90 | 10.48 | 10.67 | 1.99 | ppb |
| Beryllium | 9-1 | 1.11 | 1.11 | 1.10 | 1.11 | 0.60 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.97 | 1.12 | 1.10 | 1.06 | 7.84 | ppb |
| Cadmium | 106-1 | 1.22 | 1.12 | 0.63 | 0.99 | 32.20 | ppb |
| Cadmium | 111-1 | 1.19 | 1.13 | 1.13 | 1.15 | 3.16 | ppb |
| Calcium | 43-1 | 524.37 | 513.21 | 517.00 | 518.19 | 1.09 | ppb |
| Calcium | 44-1 | 511.61 | 504.67 | 515.21 | 510.50 | 1.05 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.08 | 2.05 | 2.16 | 2.10 | 2.81 | ppb |
| Cobalt | 59-2 | 1.17 | 1.16 | 1.20 | 1.18 | 1.92 | ppb |
| Copper | 63-2 | 2.24 | 2.22 | 2.26 | 2.24 | 0.75 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 53.84 | 56.24 | 55.67 | 55.25 | 2.27 | ppb |
| Iron | 56-2 | 53.50 | 53.59 | 54.13 | 53.74 | 0.63 | ppb |
| Iron | 57-2 | 50.15 | 51.08 | 54.55 | 51.93 | 4.46 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.03 | 1.01 | 1.05 | 1.03 | 1.75 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.04 | 1.04 | 1.03 | 1.04 | 0.58 | ppb |
| Lead | 208-1 | 1.02 | 1.02 | 1.03 | 1.02 | 0.34 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 534.01 | 533.77 | 534.54 | 534.11 | 0.07 | ppb |
| Manganese | 55-2 | 0.98 | 1.08 | 1.13 | 1.06 | 7.14 | ppb |
| Molybdenum | 94-1 | 6.18 | 6.14 | 6.29 | 6.20 | 1.26 | ppb |
| Molybdenum | 95-1 | 5.19 | 5.30 | 5.20 | 5.23 | 1.09 | ppb |
| Molybdenum | 96-1 | 5.21 | 5.28 | 5.28 | 5.25 | 0.79 | ppb |
| Molybdenum | 97-1 | 5.17 | 5.43 | 5.34 | 5.32 | 2.44 | ppb |
| Molybdenum | 98-1 | 5.07 | 5.25 | 5.25 | 5.19 | 2.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.04 | 1.17 | 1.09 | 1.10 | 6.27 | ppb |
| Phosphorus | 31-2 | 14.81 | 12.28 | 27.54 | 18.21 | 44.90 | ppb |
| Potassium | 39-2 | 503.84 | 510.63 | 511.85 | 508.77 | 0.85 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 5.30 | 5.24 | 5.25 | 5.27 | 0.64 | ppb |
| Selenium | 77-2 | 2.10 | 5.62 | 5.63 | 4.45 | 45.73 | ppb |
| Selenium | 78-2 | 4.49 | 5.12 | 2.88 | 4.16 | 27.73 | ppb |
| Silicon | 28-1 | 7.89 | 7.44 | 8.04 | 7.79 | 4.02 | ppb |
| Silver | 107-1 | 1.05 | 1.09 | 1.04 | 1.06 | 2.35 | ppb |
| Silver | 109-1 | 1.07 | 1.09 | 1.04 | 1.07 | 2.17 | ppb |
| Sodium | 23-2 | 520.10 | 523.33 | 519.84 | 521.09 | 0.37 | ppb |
| Strontium | 86-1 | 1.07 | 1.10 | 1.03 | 1.07 | 3.45 | ppb |
| Strontium | 88-1 | 1.05 | 1.07 | 1.07 | 1.06 | 1.14 | ppb |
| Sulfur | 34-1 | 132.96 | -20.61 | 142.66 | 85.01 | 107.75 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 1.00 | 1.01 | 1.03 | 1.01 | 1.45 | ppb |
| Thallium | 205-1 | 1.04 | 1.05 | 1.03 | 1.04 | 1.06 | ppb |
| Tin | 118-1 | 5.45 | 5.62 | 5.32 | 5.46 | 2.82 | ppb |
| Titanium | 47-1 | 5.26 | 5.25 | 5.42 | 5.31 | 1.77 | ppb |
| Uranium | 238-1 | 0.97 | 0.96 | 0.96 | 0.97 | 0.63 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5.13 | 5.20 | 5.42 | 5.25 | 2.83 | 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 | 5.50 | 5.00 | 5.60 | 5.37 | 5.94 | ppb |
| Zirconium | 90-1 | 1.03 | 1.05 | 1.02 | 1.04 | 1.59 | ppb |
| Zirconium | 91-1 | 1.00 | 1.04 | 1.02 | 1.02 | 2.03 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 973.98 | 934.28 | 966.47 | 958.24 | 2.20 | ppb |
| Antimony | 121-1 | 49.56 | 50.53 | 50.23 | 50.11 | 0.99 | ppb |
| Arsenic | 75-2 | 48.54 | 50.39 | 49.02 | 49.32 | 1.94 | ppb |
| Barium | 135-1 | 242.36 | 244.79 | 245.22 | 244.13 | 0.63 | ppb |
| Barium | 137-1 | 254.09 | 252.56 | 252.26 | 252.97 | 0.39 | ppb |
| Beryllium | 9-1 | 50.74 | 49.87 | 51.11 | 50.57 | 1.25 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 52.09 | 51.97 | 51.87 | 51.97 | 0.21 | ppb |
| Cadmium | 106-1 | 51.54 | 53.28 | 52.49 | 52.44 | 1.66 | ppb |
| Cadmium | 111-1 | 50.09 | 51.10 | 50.28 | 50.49 | 1.07 | ppb |
| Calcium | 43-1 | 4727.55 | 4800.98 | 4831.98 | 4786.84 | 1.12 | ppb |
| Calcium | 44-1 | 4722.99 | 4765.39 | 4770.10 | 4752.83 | 0.55 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 49.23 | 48.16 | 48.62 | 48.67 | 1.10 | ppb |
| Cobalt | 59-2 | 50.96 | 49.31 | 49.96 | 50.08 | 1.66 | ppb |
| Copper | 63-2 | 535.67 | 514.15 | 520.84 | 523.55 | 2.10 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 2531.98 | 2438.72 | 2462.91 | 2477.87 | 1.95 | ppb |
| Iron | 56-2 | 2544.36 | 2459.29 | 2483.55 | 2495.73 | 1.76 | ppb |
| Iron | 57-2 | 2503.71 | 2422.56 | 2434.46 | 2453.58 | 1.79 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 251.23 | 256.24 | 246.65 | 251.37 | 1.91 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 256.33 | 249.39 | 248.69 | 251.47 | 1.68 | ppb |
| Lead | 208-1 | 251.70 | 247.41 | 249.05 | 249.39 | 0.87 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 5118.39 | 4992.29 | 4993.89 | 5034.85 | 1.44 | ppb |
| Manganese | 55-2 | 502.54 | 484.89 | 488.35 | 491.92 | 1.90 | ppb |
| Molybdenum | 94-1 | 501.48 | 499.54 | 521.59 | 507.54 | 2.41 | ppb |
| Molybdenum | 95-1 | 498.16 | 498.26 | 514.75 | 503.72 | 1.90 | ppb |
| Molybdenum | 96-1 | 503.98 | 501.20 | 504.32 | 503.17 | 0.34 | ppb |
| Molybdenum | 97-1 | 507.32 | 503.71 | 513.11 | 508.04 | 0.93 | ppb |
| Molybdenum | 98-1 | 503.51 | 495.15 | 512.85 | 503.84 | 1.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 53.93 | 51.67 | 52.83 | 52.81 | 2.14 | ppb |
| Phosphorus | 31-2 | 991.63 | 949.43 | 1089.59 | 1010.22 | 7.12 | ppb |
| Potassium | 39-2 | 2385.33 | 2352.35 | 2371.14 | 2369.61 | 0.70 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 49.71 | 51.10 | 52.26 | 51.02 | 2.50 | ppb |
| Selenium | 77-2 | 51.55 | 49.43 | 55.76 | 52.25 | 6.17 | ppb |
| Selenium | 78-2 | 45.54 | 49.86 | 47.80 | 47.73 | 4.53 | ppb |
| Silicon | 28-1 | 52.62 | 51.79 | 52.97 | 52.46 | 1.16 | ppb |
| Silver | 107-1 | 50.12 | 50.92 | 51.04 | 50.69 | 0.98 | ppb |
| Silver | 109-1 | 50.75 | 51.66 | 51.91 | 51.44 | 1.19 | ppb |
| Sodium | 23-2 | 5030.80 | 4845.05 | 4980.09 | 4951.98 | 1.94 | ppb |
| Strontium | 86-1 | 48.21 | 48.46 | 49.57 | 48.75 | 1.49 | ppb |
| Strontium | 88-1 | 50.04 | 49.82 | 51.76 | 50.54 | 2.10 | ppb |
| Sulfur | 34-1 | 1206.08 | 1232.25 | 1458.80 | 1299.05 | 10.70 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 47.53 | 46.85 | 47.55 | 47.31 | 0.85 | ppb |
| Thallium | 205-1 | 50.36 | 50.05 | 49.38 | 49.93 | 1.00 | ppb |
| Tin | 118-1 | 49.51 | 50.02 | 50.08 | 49.87 | 0.63 | ppb |
| Titanium | 47-1 | 496.40 | 491.35 | 507.09 | 498.28 | 1.61 | ppb |
| Uranium | 238-1 | 48.62 | 46.64 | 48.38 | 47.88 | 2.26 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 48.86 | 47.12 | 48.01 | 48.00 | 1.81 | 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 | 528.57 | 513.74 | 513.10 | 518.47 | 1.69 | ppb |
| Zirconium | 90-1 | 50.21 | 49.53 | 50.97 | 50.23 | 1.43 | ppb |
| Zirconium | 91-1 | 47.56 | 48.02 | 48.73 | 48.10 | 1.23 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2409.43 | 2398.23 | 2399.67 | 2402.44 | 0.25 | ppb |
| Antimony | 121-1 | 129.23 | 132.80 | 129.48 | 130.50 | 1.53 | ppb |
| Arsenic | 75-2 | 124.01 | 124.50 | 122.25 | 123.59 | 0.96 | ppb |
| Barium | 135-1 | 632.82 | 651.29 | 633.20 | 639.10 | 1.65 | ppb |
| Barium | 137-1 | 626.60 | 633.98 | 622.42 | 627.67 | 0.93 | ppb |
| Beryllium | 9-1 | 123.31 | 127.30 | 126.09 | 125.56 | 1.63 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 123.93 | 128.70 | 130.28 | 127.64 | 2.59 | ppb |
| Cadmium | 106-1 | 122.66 | 127.33 | 129.17 | 126.39 | 2.66 | ppb |
| Cadmium | 111-1 | 122.58 | 126.11 | 125.30 | 124.66 | 1.49 | ppb |
| Calcium | 43-1 | 11699.08 | 12146.57 | 12263.92 | 12036.52 | 2.48 | ppb |
| Calcium | 44-1 | 11696.71 | 11981.16 | 12174.23 | 11950.70 | 2.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 121.67 | 121.12 | 121.71 | 121.50 | 0.27 | ppb |
| Cobalt | 59-2 | 124.38 | 124.43 | 124.11 | 124.31 | 0.14 | ppb |
| Copper | 63-2 | 1296.93 | 1287.42 | 1282.16 | 1288.83 | 0.58 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 6131.69 | 6246.15 | 6170.69 | 6182.85 | 0.94 | ppb |
| Iron | 56-2 | 6246.21 | 6332.27 | 6289.71 | 6289.40 | 0.68 | ppb |
| Iron | 57-2 | 6069.91 | 6118.08 | 6135.69 | 6107.89 | 0.56 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 624.65 | 618.50 | 633.78 | 625.64 | 1.23 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 628.42 | 627.25 | 633.85 | 629.84 | 0.56 | ppb |
| Lead | 208-1 | 623.74 | 624.27 | 628.36 | 625.45 | 0.40 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 12580.02 | 12695.61 | 12569.13 | 12614.92 | 0.56 | ppb |
| Manganese | 55-2 | 1272.35 | 1301.35 | 1268.82 | 1280.84 | 1.39 | ppb |
| Molybdenum | 94-1 | 1247.97 | 1241.65 | 1256.90 | 1248.84 | 0.61 | ppb |
| Molybdenum | 95-1 | 1260.74 | 1233.78 | 1238.62 | 1244.38 | 1.16 | ppb |
| Molybdenum | 96-1 | 1223.98 | 1244.72 | 1259.02 | 1242.57 | 1.42 | ppb |
| Molybdenum | 97-1 | 1227.48 | 1244.93 | 1280.03 | 1250.81 | 2.14 | ppb |
| Molybdenum | 98-1 | 1235.19 | 1246.17 | 1260.94 | 1247.43 | 1.04 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 133.14 | 133.49 | 133.15 | 133.26 | 0.15 | ppb |
| Phosphorus | 31-2 | 2518.33 | 2507.28 | 2575.93 | 2533.85 | 1.45 | ppb |
| Potassium | 39-2 | 5942.58 | 5984.48 | 6038.20 | 5988.42 | 0.80 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 124.36 | 128.52 | 128.59 | 127.16 | 1.91 | ppb |
| Selenium | 77-2 | 120.79 | 128.05 | 125.66 | 124.84 | 2.96 | ppb |
| Selenium | 78-2 | 120.59 | 131.23 | 122.17 | 124.67 | 4.61 | ppb |
| Silicon | 28-1 | 129.27 | 131.86 | 135.06 | 132.06 | 2.20 | ppb |
| Silver | 107-1 | 132.01 | 131.88 | 129.57 | 131.15 | 1.05 | ppb |
| Silver | 109-1 | 130.07 | 132.15 | 131.76 | 131.32 | 0.84 | ppb |
| Sodium | 23-2 | 12474.67 | 12298.95 | 12343.13 | 12372.25 | 0.74 | ppb |
| Strontium | 86-1 | 119.49 | 120.89 | 122.78 | 121.05 | 1.36 | ppb |
| Strontium | 88-1 | 126.51 | 124.40 | 126.01 | 125.64 | 0.88 | ppb |
| Sulfur | 34-1 | 2499.44 | 2735.81 | 3035.45 | 2756.90 | 9.74 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 124.92 | 123.27 | 126.26 | 124.82 | 1.20 | ppb |
| Thallium | 205-1 | 124.55 | 123.01 | 125.83 | 124.46 | 1.13 | ppb |
| Tin | 118-1 | 126.27 | 126.71 | 127.19 | 126.72 | 0.36 | ppb |
| Titanium | 47-1 | 1228.00 | 1268.84 | 1258.95 | 1251.93 | 1.70 | ppb |
| Uranium | 238-1 | 120.93 | 123.24 | 120.48 | 121.55 | 1.22 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 120.25 | 120.86 | 121.09 | 120.73 | 0.36 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 1301.38 | 1307.08 | 1298.10 | 1302.19 | 0.35 | ppb |
| Zirconium | 90-1 | 122.82 | 124.89 | 128.08 | 125.27 | 2.11 | ppb |
| Zirconium | 91-1 | 118.76 | 119.57 | 121.73 | 120.02 | 1.28 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4792.20 | 4861.73 | 4813.75 | 4822.56 | 0.74 | ppb |
| Antimony | 121-1 | 271.29 | 275.14 | 264.99 | 270.47 | 1.89 | ppb |
| Arsenic | 75-2 | 255.72 | 256.27 | 250.13 | 254.04 | 1.34 | ppb |
| Barium | 135-1 | 1293.44 | 1297.31 | 1255.87 | 1282.21 | 1.79 | ppb |
| Barium | 137-1 | 1277.26 | 1279.81 | 1240.89 | 1265.99 | 1.72 | ppb |
| Beryllium | 9-1 | 260.93 | 259.67 | 262.15 | 260.92 | 0.48 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 261.60 | 265.88 | 254.40 | 260.63 | 2.23 | ppb |
| Cadmium | 106-1 | 259.68 | 263.54 | 254.64 | 259.28 | 1.72 | ppb |
| Cadmium | 111-1 | 252.16 | 259.18 | 247.18 | 252.84 | 2.38 | ppb |
| Calcium | 43-1 | 25365.68 | 25171.62 | 24744.84 | 25094.05 | 1.27 | ppb |
| Calcium | 44-1 | 24356.06 | 24733.18 | 24002.48 | 24363.91 | 1.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 243.31 | 246.09 | 244.18 | 244.52 | 0.58 | ppb |
| Cobalt | 59-2 | 256.98 | 258.94 | 255.72 | 257.21 | 0.63 | ppb |
| Copper | 63-2 | 2588.13 | 2600.60 | 2562.58 | 2583.77 | 0.75 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 12913.68 | 12715.61 | 12632.49 | 12753.92 | 1.13 | ppb |
| Iron | 56-2 | 12751.20 | 12843.14 | 12438.57 | 12677.64 | 1.67 | ppb |
| Iron | 57-2 | 12389.23 | 12402.08 | 12170.92 | 12320.74 | 1.05 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1292.23 | 1267.95 | 1260.96 | 1273.71 | 1.29 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1281.28 | 1264.60 | 1256.86 | 1267.58 | 0.98 | ppb |
| Lead | 208-1 | 1286.07 | 1258.29 | 1254.34 | 1266.24 | 1.37 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 24962.63 | 25083.85 | 25227.33 | 25091.27 | 0.53 | ppb |
| Manganese | 55-2 | 2536.81 | 2563.82 | 2530.07 | 2543.57 | 0.70 | ppb |
| Molybdenum | 94-1 | 2588.66 | 2552.29 | 2568.88 | 2569.95 | 0.71 | ppb |
| Molybdenum | 95-1 | 2556.15 | 2565.69 | 2532.96 | 2551.60 | 0.66 | ppb |
| Molybdenum | 96-1 | 2545.83 | 2556.51 | 2500.72 | 2534.35 | 1.17 | ppb |
| Molybdenum | 97-1 | 2557.58 | 2571.73 | 2514.90 | 2548.07 | 1.16 | ppb |
| Molybdenum | 98-1 | 2572.64 | 2545.88 | 2507.37 | 2541.96 | 1.29 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 264.90 | 268.35 | 264.69 | 265.98 | 0.77 | ppb |
| Phosphorus | 31-2 | 5242.55 | 5182.96 | 5330.53 | 5252.01 | 1.41 | ppb |
| Potassium | 39-2 | 12526.49 | 12395.30 | 12168.27 | 12363.35 | 1.47 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 95 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 262.90 | 263.28 | 259.35 | 261.84 | 0.83 | ppb |
| Selenium | 77-2 | 259.63 | 275.79 | 264.57 | 266.66 | 3.11 | ppb |
| Selenium | 78-2 | 259.94 | 256.78 | 253.27 | 256.67 | 1.30 | ppb |
| Silicon | 28-1 | 264.75 | 266.89 | 263.46 | 265.03 | 0.65 | ppb |
| Silver | 107-1 | 265.17 | 265.88 | 258.72 | 263.26 | 1.50 | ppb |
| Silver | 109-1 | 266.26 | 267.30 | 259.06 | 264.21 | 1.70 | ppb |
| Sodium | 23-2 | 24950.38 | 24695.33 | 24864.76 | 24836.82 | 0.52 | ppb |
| Strontium | 86-1 | 250.41 | 248.73 | 246.87 | 248.67 | 0.71 | ppb |
| Strontium | 88-1 | 254.20 | 256.06 | 248.76 | 253.01 | 1.50 | ppb |
| Sulfur | 34-1 | 5806.24 | 5508.16 | 5291.44 | 5535.28 | 4.67 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 259.34 | 253.27 | 252.12 | 254.91 | 1.52 | ppb |
| Thallium | 205-1 | 256.97 | 254.90 | 248.82 | 253.56 | 1.67 | ppb |
| Tin | 118-1 | 259.25 | 257.48 | 253.75 | 256.83 | 1.09 | ppb |
| Titanium | 47-1 | 2516.85 | 2571.61 | 2513.77 | 2534.08 | 1.28 | ppb |
| Uranium | 238-1 | 251.56 | 246.23 | 244.27 | 247.35 | 1.53 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 242.31 | 245.81 | 242.71 | 243.61 | 0.79 | 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 | 2741.85 | 2708.22 | 2670.05 | 2706.71 | 1.33 | ppb |
| Zirconium | 90-1 | 256.20 | 253.71 | 254.66 | 254.86 | 0.49 | ppb |
| Zirconium | 91-1 | 253.44 | 257.34 | 254.31 | 255.03 | 0.80 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9622.10 | 9827.45 | 9775.79 | 9741.78 | 1.10 | ppb |
| Antimony | 121-1 | 489.26 | 502.66 | 501.46 | 497.79 | 1.49 | ppb |
| Arsenic | 75-2 | 492.94 | 508.62 | 514.48 | 505.35 | 2.20 | ppb |
| Barium | 135-1 | 2448.59 | 2506.42 | 2501.08 | 2485.36 | 1.29 | ppb |
| Barium | 137-1 | 2465.44 | 2537.05 | 2479.97 | 2494.15 | 1.52 | ppb |
| Beryllium | 9-1 | 483.06 | 508.61 | 511.01 | 500.89 | 3.09 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 91 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 493.31 | 497.87 | 494.24 | 495.14 | 0.49 | ppb |
| Cadmium | 106-1 | 491.60 | 502.73 | 498.34 | 497.56 | 1.13 | ppb |
| Cadmium | 111-1 | 496.65 | 498.26 | 503.30 | 499.40 | 0.69 | ppb |
| Calcium | 43-1 | 45940.87 | 49844.17 | 48313.97 | 48033.00 | 4.09 | ppb |
| Calcium | 44-1 | 46009.55 | 48329.84 | 47286.58 | 47208.66 | 2.46 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 516.45 | 516.53 | 517.34 | 516.77 | 0.10 | ppb |
| Cobalt | 59-2 | 509.94 | 521.31 | 513.93 | 515.06 | 1.12 | ppb |
| Copper | 63-2 | 5105.88 | 5311.72 | 5238.50 | 5218.70 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 93 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 25135.81 | 26152.09 | 26292.80 | 25860.23 | 2.44 | ppb |
| Iron | 56-2 | 25325.79 | 25670.95 | 25390.05 | 25462.26 | 0.72 | ppb |
| Iron | 57-2 | 25540.34 | 26727.68 | 26168.71 | 26145.58 | 2.27 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2497.11 | 2527.83 | 2502.01 | 2508.98 | 0.66 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2487.38 | 2507.43 | 2540.38 | 2511.73 | 1.07 | ppb |
| Lead | 208-1 | 2471.66 | 2508.46 | 2510.92 | 2497.01 | 0.88 | ppb |
| Lithium | 6-1 | | | | 94 | | % |
| Magnesium | 24-2 | 50513.89 | 51027.29 | 50958.77 | 50833.32 | 0.55 | ppb |
| Manganese | 55-2 | 5068.29 | 5110.65 | 5101.74 | 5093.56 | 0.44 | ppb |
| Molybdenum | 94-1 | 4923.12 | 5022.86 | 5042.35 | 4996.11 | 1.28 | ppb |
| Molybdenum | 95-1 | 4894.92 | 5025.34 | 5045.08 | 4988.45 | 1.64 | ppb |
| Molybdenum | 96-1 | 4917.60 | 4970.02 | 4995.61 | 4961.08 | 0.80 | ppb |
| Molybdenum | 97-1 | 4910.83 | 4946.04 | 4996.72 | 4951.19 | 0.87 | ppb |
| Molybdenum | 98-1 | 4876.63 | 4968.31 | 5039.80 | 4961.58 | 1.65 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 483.82 | 501.79 | 491.40 | 492.34 | 1.83 | ppb |
| Phosphorus | 31-2 | 10108.93 | 10442.34 | 10253.89 | 10268.39 | 1.63 | ppb |
| Potassium | 39-2 | 24047.69 | 24761.50 | 24478.36 | 24429.18 | 1.47 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 94 | | % |
| Scandium | 45-2 | | | | 92 | | % |
| Selenium | 82-1 | 488.93 | 497.53 | 508.05 | 498.17 | 1.92 | ppb |
| Selenium | 77-2 | 509.59 | 556.47 | 525.98 | 530.68 | 4.48 | ppb |
| Selenium | 78-2 | 483.33 | 506.68 | 514.90 | 501.64 | 3.26 | ppb |
| Silicon | 28-1 | 488.61 | 514.59 | 518.93 | 507.37 | 3.23 | ppb |
| Silver | 107-1 | 491.53 | 511.34 | 501.87 | 501.58 | 1.98 | ppb |
| Silver | 109-1 | 491.17 | 509.60 | 503.48 | 501.42 | 1.87 | ppb |
| Sodium | 23-2 | 50549.86 | 50145.25 | 50367.30 | 50354.13 | 0.40 | ppb |
| Strontium | 86-1 | 491.59 | 508.39 | 509.84 | 503.27 | 2.02 | ppb |
| Strontium | 88-1 | 491.33 | 500.96 | 501.28 | 497.86 | 1.14 | ppb |
| Sulfur | 34-1 | 9638.40 | 10227.23 | 10332.85 | 10066.16 | 3.72 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 500.91 | 497.03 | 504.00 | 500.65 | 0.70 | ppb |
| Thallium | 205-1 | 496.08 | 500.11 | 496.27 | 497.49 | 0.46 | ppb |
| Tin | 118-1 | 486.89 | 504.39 | 508.72 | 500.00 | 2.31 | ppb |
| Titanium | 47-1 | 4760.30 | 5097.69 | 4969.94 | 4942.64 | 3.45 | ppb |
| Uranium | 238-1 | 476.01 | 501.21 | 496.99 | 491.40 | 2.75 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 511.11 | 521.14 | 511.12 | 514.46 | 1.13 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 92 | | % |
| Zinc | 66-2 | 5147.83 | 5284.78 | 5132.78 | 5188.46 | 1.61 | ppb |
| Zirconium | 90-1 | 489.24 | 500.74 | 505.44 | 498.47 | 1.67 | ppb |
| Zirconium | 91-1 | 492.47 | 507.65 | 511.87 | 504.00 | 2.02 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19183.29 | 19534.98 | 19311.44 | 19343.24 | 0.92 | ppb |
| Antimony | 121-1 | 980.16 | 1007.88 | 997.84 | 995.29 | 1.41 | ppb |
| Arsenic | 75-2 | 992.72 | 990.29 | 1006.57 | 996.53 | 0.88 | ppb |
| Barium | 135-1 | 4917.27 | 5057.19 | 5018.93 | 4997.79 | 1.45 | ppb |
| Barium | 137-1 | 4909.90 | 5119.85 | 4965.58 | 4998.44 | 2.18 | ppb |
| Beryllium | 9-1 | 979.80 | 998.90 | 1011.47 | 996.72 | 1.60 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 91 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 990.32 | 1020.24 | 987.47 | 999.35 | 1.82 | ppb |
| Cadmium | 106-1 | 984.44 | 1012.17 | 999.21 | 998.60 | 1.39 | ppb |
| Cadmium | 111-1 | 985.90 | 1015.99 | 996.92 | 999.60 | 1.52 | ppb |
| Calcium | 43-1 | 94870.95 | 96292.48 | 97614.67 | 96259.37 | 1.43 | ppb |
| Calcium | 44-1 | 94627.71 | 95868.86 | 96020.19 | 95505.59 | 0.80 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 991.57 | 1011.97 | 976.92 | 993.49 | 1.77 | ppb |
| Cobalt | 59-2 | 986.26 | 990.07 | 995.92 | 990.75 | 0.49 | ppb |
| Copper | 63-2 | 9756.59 | 9846.93 | 9987.51 | 9863.68 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 92 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 48530.01 | 49093.57 | 49921.48 | 49181.69 | 1.42 | ppb |
| Iron | 56-2 | 48163.77 | 48997.22 | 48459.94 | 48540.31 | 0.87 | ppb |
| Iron | 57-2 | 49986.02 | 50127.83 | 48767.66 | 49627.17 | 1.51 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4902.61 | 4992.14 | 5073.54 | 4989.43 | 1.71 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4907.70 | 5010.97 | 5048.51 | 4989.06 | 1.46 | ppb |
| Lead | 208-1 | 4917.11 | 5024.93 | 5050.18 | 4997.41 | 1.41 | ppb |
| Lithium | 6-1 | | | | 92 | | % |
| Magnesium | 24-2 | 95755.12 | 98451.45 | 97180.24 | 97128.94 | 1.39 | ppb |
| Manganese | 55-2 | 9930.84 | 9935.33 | 9950.46 | 9938.88 | 0.10 | ppb |
| Molybdenum | 94-1 | 9701.32 | 10058.92 | 10192.44 | 9984.23 | 2.54 | ppb |
| Molybdenum | 95-1 | 9790.58 | 9911.80 | 10277.80 | 9993.39 | 2.54 | ppb |
| Molybdenum | 96-1 | 9877.68 | 9868.64 | 10288.60 | 10011.64 | 2.40 | ppb |
| Molybdenum | 97-1 | 9906.81 | 9890.00 | 10238.84 | 10011.88 | 1.96 | ppb |
| Molybdenum | 98-1 | 9833.82 | 10034.08 | 10158.65 | 10008.85 | 1.64 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 995.20 | 994.70 | 1006.08 | 998.66 | 0.64 | ppb |
| Phosphorus | 31-2 | 19578.83 | 20074.80 | 19740.56 | 19798.06 | 1.28 | ppb |
| Potassium | 39-2 | 47304.12 | 48389.52 | 47434.78 | 47709.47 | 1.24 | ppb |
| Rhodium | 103-1 | | | | 88 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 93 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 974.66 | 991.54 | 1026.69 | 997.63 | 2.66 | ppb |
| Selenium | 77-2 | 998.80 | 979.16 | 963.26 | 980.40 | 1.82 | ppb |
| Selenium | 78-2 | 983.31 | 999.27 | 1010.44 | 997.67 | 1.37 | ppb |
| Silicon | 28-1 | 996.45 | 1002.11 | 976.15 | 991.57 | 1.38 | ppb |
| Silver | 107-1 | 988.98 | 1008.60 | 987.69 | 995.09 | 1.18 | ppb |
| Silver | 109-1 | 998.17 | 1001.02 | 985.44 | 994.88 | 0.83 | ppb |
| Sodium | 23-2 | 96270.74 | 97702.03 | 95567.68 | 96513.48 | 1.13 | ppb |
| Strontium | 86-1 | 973.18 | 1012.06 | 1012.52 | 999.25 | 2.26 | ppb |
| Strontium | 88-1 | 984.24 | 1000.81 | 1015.60 | 1000.21 | 1.57 | ppb |
| Sulfur | 34-1 | 19700.15 | 20152.00 | 19505.95 | 19786.04 | 1.68 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 986.09 | 1000.83 | 1008.90 | 998.61 | 1.16 | ppb |
| Thallium | 205-1 | 992.26 | 996.84 | 1012.20 | 1000.43 | 1.04 | ppb |
| Tin | 118-1 | 987.37 | 1012.65 | 994.22 | 998.08 | 1.31 | ppb |
| Titanium | 47-1 | 10053.21 | 10018.00 | 9988.80 | 10020.00 | 0.32 | ppb |
| Uranium | 238-1 | 991.99 | 1020.91 | 1003.60 | 1005.50 | 1.45 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 987.46 | 992.33 | 1005.21 | 995.00 | 0.92 | 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 | 9778.43 | 9898.42 | 9863.08 | 9846.64 | 0.63 | ppb |
| Zirconium | 90-1 | 967.97 | 1006.98 | 1023.57 | 999.50 | 2.86 | ppb |
| Zirconium | 91-1 | 973.12 | 991.74 | 1027.52 | 997.46 | 2.77 | ppb |

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On:2/7/2025 11:31:39 AM
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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 101096.56 | 100422.91 | 98987.24 | 100168.90 | 1.08 | ppb |
| Antimony | 121-1 | 0.44 | 0.41 | 0.41 | 0.42 | 3.80 | ppb |
| Arsenic | 75-2 | 0.71 | 0.65 | 0.61 | 0.65 | 7.47 | ppb |
| Barium | 135-1 | 2.06 | 1.89 | 1.94 | 1.96 | 4.58 | ppb |
| Barium | 137-1 | 2.06 | 2.05 | 1.95 | 2.02 | 3.11 | ppb |
| Beryllium | 9-1 | 0.38 | 0.30 | 0.32 | 0.33 | 12.59 | ppb |
| Bismuth | 209-1 | | | | 79 | | % |
| Bismuth | 209-2 | | | | 81 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.58 | 0.74 | 0.58 | 0.64 | 14.67 | ppb |
| Cadmium | 106-1 | -0.16 | -0.11 | 0.10 | -0.05 | | ppb |
| Cadmium | 111-1 | 0.15 | 0.15 | 0.15 | 0.15 | 2.43 | ppb |
| Calcium | 43-1 | 497361.39 | 504066.86 | 501433.22 | 500953.82 | 0.67 | ppb |
| Calcium | 44-1 | 496385.03 | 508682.43 | 498610.58 | 501226.02 | 1.31 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.23 | 2.26 | 2.13 | 2.21 | 3.05 | ppb |
| Cobalt | 59-2 | 2.30 | 2.17 | 2.20 | 2.22 | 3.14 | ppb |
| Copper | 63-2 | 1.52 | 1.54 | 1.55 | 1.54 | 1.12 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 90 | | % |
| Holmium | 165-2 | | | | 91 | | % |
| Indium | 115-1 | | | | 82 | | % |
| Indium | 115-2 | | | | 81 | | % |
| Iron | 54-2 | 253043.33 | 246073.09 | 251084.11 | 250066.84 | 1.44 | ppb |
| Iron | 56-2 | 252099.46 | 247844.21 | 250763.99 | 250235.89 | 0.87 | ppb |
| Iron | 57-2 | 251230.01 | 248118.08 | 250570.87 | 249972.99 | 0.66 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.33 | 1.26 | 1.28 | 1.29 | 2.62 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.31 | 1.30 | 1.25 | 1.29 | 2.63 | ppb |
| Lead | 208-1 | 1.30 | 1.28 | 1.26 | 1.28 | 1.73 | ppb |
| Lithium | 6-1 | | | | 82 | | % |
| Magnesium | 24-2 | 502190.78 | 498780.20 | 500478.21 | 500483.06 | 0.34 | ppb |
| Manganese | 55-2 | 4.70 | 4.38 | 4.64 | 4.57 | 3.73 | ppb |
| Molybdenum | 94-1 | 4.80 | 4.65 | 4.45 | 4.63 | 3.77 | ppb |
| Molybdenum | 95-1 | 1.70 | 1.53 | 1.57 | 1.60 | 5.55 | ppb |
| Molybdenum | 96-1 | 2.05 | 1.94 | 1.86 | 1.95 | 4.76 | ppb |
| Molybdenum | 97-1 | 1.59 | 1.50 | 1.39 | 1.49 | 6.59 | ppb |
| Molybdenum | 98-1 | 1.55 | 1.42 | 1.38 | 1.45 | 6.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.19 | 3.10 | 3.13 | 3.14 | 1.60 | ppb |
| Phosphorus | 31-2 | -9.85 | -22.32 | -9.57 | -13.91 | | ppb |
| Potassium | 39-2 | 251478.37 | 250401.70 | 249709.46 | 250529.84 | 0.36 | ppb |
| Rhodium | 103-1 | | | | 76 | | % |
| Rhodium | 103-2 | | | | 80 | | % |
| Scandium | 45-1 | | | | 84 | | % |
| Scandium | 45-2 | | | | 88 | | % |
| Selenium | 82-1 | 0.03 | 0.32 | -0.20 | 0.05 | 527.14 | ppb |
| Selenium | 77-2 | 0.00 | 0.76 | 0.00 | 0.25 | 173.21 | ppb |
| Selenium | 78-2 | -0.78 | -0.34 | -0.56 | -0.56 | | ppb |
| Silicon | 28-1 | 23.24 | 23.43 | 22.05 | 22.91 | 3.25 | ppb |
| Silver | 107-1 | 0.15 | 0.12 | 0.12 | 0.13 | 14.16 | ppb |
| Silver | 109-1 | 0.15 | 0.13 | 0.12 | 0.13 | 10.24 | ppb |
| Sodium | 23-2 | 510918.95 | 498956.66 | 492145.50 | 500673.70 | 1.90 | ppb |
| Strontium | 86-1 | 3.41 | 3.39 | 3.37 | 3.39 | 0.56 | ppb |
| Strontium | 88-1 | 3.41 | 3.36 | 3.39 | 3.39 | 0.84 | ppb |
| Sulfur | 34-1 | -243.04 | -465.20 | -707.55 | -471.93 | | ppb |
| Terbium | 159-1 | | | | 89 | | % |
| Terbium | 159-2 | | | | 91 | | % |
| Thallium | 203-1 | 0.12 | 0.10 | 0.09 | 0.10 | 15.65 | ppb |
| Thallium | 205-1 | 0.13 | 0.11 | 0.09 | 0.11 | 17.39 | ppb |
| Tin | 118-1 | 0.21 | 0.21 | 0.20 | 0.21 | 3.17 | ppb |
| Titanium | 47-1 | 1.47 | 1.29 | 1.32 | 1.36 | 7.26 | ppb |
| Uranium | 238-1 | 0.08 | 0.06 | 0.06 | 0.07 | 18.88 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.29 | 0.26 | 0.30 | 0.28 | 7.01 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 86 | | % |
| Yttrium | 89-2 | | | | 90 | | % |
| Zinc | 66-2 | 4.94 | 4.69 | 4.43 | 4.69 | 5.41 | ppb |
| Zirconium | 90-1 | 1.83 | 1.85 | 1.81 | 1.83 | 0.97 | ppb |
| Zirconium | 91-1 | 1.88 | 1.87 | 1.80 | 1.85 | 2.27 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 467.31 | 482.84 | 478.93 | 476.36 | 1.70 | ppb |
| Antimony | 121-1 | 209.66 | 208.37 | 208.68 | 208.90 | 0.32 | ppb |
| Arsenic | 75-2 | 207.68 | 210.59 | 207.37 | 208.55 | 0.85 | ppb |
| Barium | 135-1 | 102.20 | 103.27 | 100.59 | 102.02 | 1.32 | ppb |
| Barium | 137-1 | 101.87 | 103.33 | 102.40 | 102.53 | 0.72 | ppb |
| Beryllium | 9-1 | 104.12 | 103.24 | 104.98 | 104.12 | 0.83 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 132.30 | 136.81 | 134.40 | 134.51 | 1.68 | ppb |
| Cadmium | 106-1 | 83.13 | 83.49 | 83.44 | 83.35 | 0.23 | ppb |
| Cadmium | 111-1 | 105.58 | 106.80 | 105.71 | 106.03 | 0.63 | ppb |
| Calcium | 43-1 | 2167.07 | 2181.71 | 2193.21 | 2180.66 | 0.60 | ppb |
| Calcium | 44-1 | 2127.71 | 2140.92 | 2134.14 | 2134.26 | 0.31 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 101.54 | 103.37 | 102.58 | 102.50 | 0.90 | ppb |
| Cobalt | 59-2 | 105.03 | 105.33 | 106.91 | 105.75 | 0.96 | ppb |
| Copper | 63-2 | 105.02 | 106.70 | 108.32 | 106.68 | 1.55 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 2073.47 | 2102.64 | 2102.87 | 2092.99 | 0.81 | ppb |
| Iron | 56-2 | 2062.65 | 2018.33 | 2092.49 | 2057.82 | 1.81 | ppb |
| Iron | 57-2 | 1998.57 | 2010.84 | 2018.55 | 2009.32 | 0.50 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 208.99 | 209.75 | 214.81 | 211.18 | 1.50 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 199.56 | 204.97 | 209.00 | 204.51 | 2.32 | ppb |
| Lead | 208-1 | 203.05 | 207.66 | 209.59 | 206.76 | 1.62 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 1133.24 | 1124.14 | 1139.99 | 1132.46 | 0.70 | ppb |
| Manganese | 55-2 | 100.37 | 102.09 | 102.47 | 101.64 | 1.10 | ppb |
| Molybdenum | 94-1 | 3934.92 | 3945.45 | 4035.17 | 3971.84 | 1.39 | ppb |
| Molybdenum | 95-1 | 4783.68 | 4878.43 | 4969.52 | 4877.21 | 1.91 | ppb |
| Molybdenum | 96-1 | 4718.18 | 4806.02 | 4843.09 | 4789.10 | 1.34 | ppb |
| Molybdenum | 97-1 | 4835.95 | 4902.79 | 4892.02 | 4876.92 | 0.74 | ppb |
| Molybdenum | 98-1 | 4762.33 | 4840.79 | 4853.20 | 4818.77 | 1.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 103.90 | 105.91 | 106.27 | 105.36 | 1.21 | ppb |
| Phosphorus | 31-2 | -15.49 | -24.94 | -14.11 | -18.18 | | ppb |
| Potassium | 39-2 | 1898.05 | 1894.13 | 1929.63 | 1907.27 | 1.02 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 208.92 | 211.75 | 216.01 | 212.22 | 1.68 | ppb |
| Selenium | 77-2 | 228.29 | 222.56 | 197.98 | 216.28 | 7.45 | ppb |
| Selenium | 78-2 | 204.10 | 204.75 | 200.50 | 203.12 | 1.13 | ppb |
| Silicon | 28-1 | 0.81 | 1.86 | 1.88 | 1.52 | 40.24 | ppb |
| Silver | 107-1 | 48.85 | 50.22 | 49.53 | 49.53 | 1.38 | ppb |
| Silver | 109-1 | 49.69 | 50.66 | 50.75 | 50.37 | 1.17 | ppb |
| Sodium | 23-2 | 2020.67 | 2068.23 | 2013.16 | 2034.02 | 1.47 | ppb |
| Strontium | 86-1 | 504.00 | 513.12 | 515.28 | 510.80 | 1.17 | ppb |
| Strontium | 88-1 | 503.96 | 505.69 | 510.35 | 506.67 | 0.65 | ppb |
| Sulfur | 34-1 | -655.31 | -655.54 | -705.71 | -672.19 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 207.36 | 204.76 | 212.90 | 208.34 | 2.00 | ppb |
| Thallium | 205-1 | 204.09 | 201.72 | 205.83 | 203.88 | 1.01 | ppb |
| Tin | 118-1 | 0.05 | 0.09 | 0.05 | 0.06 | 37.76 | ppb |
| Titanium | 47-1 | 0.44 | 0.50 | 0.49 | 0.48 | 6.72 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.30 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 99.29 | 100.06 | 98.61 | 99.32 | 0.73 | 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 | 198.83 | 203.74 | 207.16 | 203.24 | 2.06 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 12.81 | ppb |
| Zirconium | 91-1 | 0.10 | 0.12 | 0.12 | 0.11 | 10.13 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.26 | 0.69 | 0.40 | 0.45 | 48.99 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 8.72 | ppb |
| Arsenic | 75-2 | 0.05 | -0.02 | -0.02 | 0.01 | 686.11 | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.01 | 0.01 | 55.58 | ppb |
| Barium | 137-1 | 0.00 | 0.01 | 0.01 | 0.01 | 29.82 | ppb |
| Beryllium | 9-1 | 0.07 | 0.06 | 0.06 | 0.06 | 4.51 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.01 | 0.03 | -0.01 | | ppb |
| Cadmium | 106-1 | -1.91 | -0.51 | -0.93 | -1.12 | | ppb |
| Cadmium | 111-1 | -0.14 | -0.03 | -0.07 | -0.08 | | ppb |
| Calcium | 43-1 | -0.99 | 0.47 | 0.13 | -0.13 | | ppb |
| Calcium | 44-1 | 1.09 | 0.95 | 1.31 | 1.12 | 16.43 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.15 | -0.15 | -0.13 | -0.14 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | 83.21 | ppb |
| Copper | 63-2 | 0.30 | 0.32 | 0.31 | 0.31 | 3.12 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | -0.03 | 0.13 | -0.43 | -0.11 | | ppb |
| Iron | 56-2 | 0.29 | 0.41 | 0.37 | 0.36 | 17.30 | ppb |
| Iron | 57-2 | -0.62 | -0.04 | 0.85 | 0.06 | 1178.49 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.13 | 0.12 | 0.13 | 0.13 | 2.59 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.13 | 0.14 | 0.14 | 0.14 | 2.20 | ppb |
| Lead | 208-1 | 0.14 | 0.14 | 0.14 | 0.14 | 1.48 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | -10.21 | -10.19 | -10.38 | -10.26 | | ppb |
| Manganese | 55-2 | -0.01 | 0.02 | -0.02 | 0.00 | | ppb |
| Molybdenum | 94-1 | 0.10 | 0.10 | 0.07 | 0.09 | 19.08 | ppb |
| Molybdenum | 95-1 | 0.12 | 0.10 | 0.12 | 0.11 | 10.65 | ppb |
| Molybdenum | 96-1 | 0.11 | 0.10 | 0.10 | 0.11 | 4.69 | ppb |
| Molybdenum | 97-1 | 0.11 | 0.07 | 0.09 | 0.09 | 18.49 | ppb |
| Molybdenum | 98-1 | 0.14 | 0.08 | 0.08 | 0.10 | 32.88 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.04 | -0.07 | -0.01 | -0.04 | | ppb |
| Phosphorus | 31-2 | -19.45 | -19.28 | -22.79 | -20.51 | | ppb |
| Potassium | 39-2 | 9.72 | 7.30 | 9.17 | 8.73 | 14.54 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.12 | -0.08 | 0.06 | 0.03 | 299.83 | ppb |
| Selenium | 77-2 | 0.70 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.80 | -0.80 | -0.39 | -0.66 | | ppb |
| Silicon | 28-1 | -0.04 | 0.70 | 0.57 | 0.41 | 96.49 | ppb |
| Silver | 107-1 | 0.01 | 0.05 | 0.01 | 0.02 | 83.21 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.93 | ppb |
| Sodium | 23-2 | 21.79 | 20.05 | 21.77 | 21.20 | 4.71 | ppb |
| Strontium | 86-1 | 0.01 | 0.00 | 0.01 | 0.01 | 30.15 | ppb |
| Strontium | 88-1 | 0.01 | 0.01 | 0.01 | 0.01 | 32.60 | ppb |
| Sulfur | 34-1 | -457.71 | -299.02 | -217.94 | -324.89 | | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.01 | 0.02 | 0.02 | 0.02 | 8.90 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 15.57 | ppb |
| Tin | 118-1 | -0.02 | 0.00 | -0.01 | -0.01 | | ppb |
| Titanium | 47-1 | 0.00 | -0.01 | 0.01 | 0.00 | 509.50 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 82.69 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 0.05 | 0.07 | 0.04 | 0.05 | 33.21 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 79.64 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 23.47 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 87946.37 | 89438.57 | 88414.68 | 88599.87 | 0.86 | ppb |
| Antimony | 121-1 | 1.02 | 1.11 | 1.11 | 1.08 | 4.99 | ppb |
| Arsenic | 75-2 | 0.25 | 0.31 | 0.35 | 0.30 | 16.26 | ppb |
| Barium | 135-1 | 1.30 | 1.43 | 1.43 | 1.39 | 5.51 | ppb |
| Barium | 137-1 | 1.25 | 1.32 | 1.40 | 1.32 | 5.72 | ppb |
| Beryllium | 9-1 | 0.31 | 0.34 | 0.31 | 0.32 | 4.33 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 91 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 15.99 | 17.64 | 16.11 | 16.58 | 5.56 | ppb |
| Cadmium | 106-1 | -2.85 | -2.04 | -2.12 | -2.34 | | ppb |
| Cadmium | 111-1 | 0.42 | 0.43 | 0.54 | 0.46 | 15.40 | ppb |
| Calcium | 43-1 | 88091.68 | 93451.76 | 93941.77 | 91828.41 | 3.53 | ppb |
| Calcium | 44-1 | 87758.75 | 95358.70 | 94327.91 | 92481.79 | 4.46 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 19.07 | 19.46 | 19.27 | 19.27 | 1.01 | ppb |
| Cobalt | 59-2 | 1.15 | 1.19 | 1.16 | 1.17 | 2.06 | ppb |
| Copper | 63-2 | 7.80 | 8.00 | 7.91 | 7.90 | 1.25 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 91 | | % |
| Iron | 54-2 | 98052.46 | 99341.89 | 96567.18 | 97987.17 | 1.42 | ppb |
| Iron | 56-2 | 98563.42 | 99823.58 | 98387.66 | 98924.89 | 0.79 | ppb |
| Iron | 57-2 | 99252.46 | 100504.60 | 98111.92 | 99289.66 | 1.21 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4.26 | 4.73 | 4.69 | 4.56 | 5.75 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3.97 | 4.27 | 4.26 | 4.17 | 4.10 | ppb |
| Lead | 208-1 | 4.03 | 4.44 | 4.40 | 4.29 | 5.18 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 92615.56 | 92290.17 | 91234.65 | 92046.79 | 0.78 | ppb |
| Manganese | 55-2 | 7.47 | 7.43 | 7.51 | 7.47 | 0.54 | ppb |
| Molybdenum | 94-1 | 1482.56 | 1588.05 | 1570.35 | 1546.98 | 3.65 | ppb |
| Molybdenum | 95-1 | 1794.26 | 1926.73 | 1940.25 | 1887.08 | 4.27 | ppb |
| Molybdenum | 96-1 | 1788.63 | 1880.67 | 1916.20 | 1861.83 | 3.54 | ppb |
| Molybdenum | 97-1 | 1820.47 | 1913.99 | 1969.89 | 1901.45 | 3.97 | ppb |
| Molybdenum | 98-1 | 1804.55 | 1925.46 | 1924.94 | 1884.98 | 3.70 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 4.96 | 5.13 | 5.06 | 5.05 | 1.70 | ppb |
| Phosphorus | 31-2 | 99888.01 | 100680.31 | 100310.48 | 100292.94 | 0.40 | ppb |
| Potassium | 39-2 | 94975.87 | 94943.54 | 93449.35 | 94456.25 | 0.92 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | -0.26 | -0.11 | -0.24 | -0.20 | | ppb |
| Selenium | 77-2 | 0.71 | 0.73 | 0.00 | 0.48 | 86.61 | ppb |
| Selenium | 78-2 | -0.38 | 0.05 | -0.80 | -0.38 | | ppb |
| Silicon | 28-1 | 25.17 | 29.46 | 30.02 | 28.21 | 9.41 | ppb |
| Silver | 107-1 | 0.06 | 0.07 | 0.06 | 0.07 | 7.03 | ppb |
| Silver | 109-1 | 0.06 | 0.07 | 0.07 | 0.07 | 5.42 | ppb |
| Sodium | 23-2 | 96749.68 | 97531.92 | 96183.11 | 96821.57 | 0.70 | ppb |
| Strontium | 86-1 | 30.12 | 32.75 | 32.94 | 31.93 | 4.94 | ppb |
| Strontium | 88-1 | 31.30 | 34.03 | 34.28 | 33.20 | 4.98 | ppb |
| Sulfur | 34-1 | 88018.42 | 93023.69 | 92045.39 | 91029.17 | 2.91 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.07 | 0.08 | 0.11 | 0.08 | 24.70 | ppb |
| Thallium | 205-1 | 0.07 | 0.09 | 0.10 | 0.09 | 16.00 | ppb |
| Tin | 118-1 | 0.19 | 0.24 | 0.22 | 0.21 | 11.46 | ppb |
| Titanium | 47-1 | 1888.18 | 2039.69 | 2066.10 | 1997.99 | 4.81 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.02 | 0.01 | 8.36 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.16 | 0.15 | 0.15 | 0.16 | 4.39 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 96 | | % |
| Zinc | 66-2 | 11.32 | 10.86 | 10.88 | 11.02 | 2.37 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.09 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.03 | 17.37 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90861.33 | 90283.38 | 88398.00 | 89847.57 | 1.43 | ppb |
| Antimony | 121-1 | 21.02 | 21.48 | 21.63 | 21.37 | 1.47 | ppb |
| Arsenic | 75-2 | 21.75 | 22.13 | 20.94 | 21.61 | 2.79 | ppb |
| Barium | 135-1 | 21.32 | 21.73 | 21.91 | 21.65 | 1.39 | ppb |
| Barium | 137-1 | 21.25 | 21.98 | 21.84 | 21.69 | 1.80 | ppb |
| Beryllium | 9-1 | 20.62 | 21.81 | 21.52 | 21.31 | 2.91 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 33.83 | 33.26 | 33.26 | 33.45 | 0.98 | ppb |
| Cadmium | 106-1 | 13.42 | 13.83 | 13.38 | 13.54 | 1.85 | ppb |
| Cadmium | 111-1 | 19.70 | 20.02 | 20.19 | 19.97 | 1.25 | ppb |
| Calcium | 43-1 | 97295.48 | 100218.32 | 97375.34 | 98296.38 | 1.69 | ppb |
| Calcium | 44-1 | 96697.00 | 98153.01 | 97114.87 | 97321.62 | 0.77 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 39.15 | 39.78 | 39.61 | 39.51 | 0.83 | ppb |
| Cobalt | 59-2 | 21.26 | 21.48 | 21.11 | 21.28 | 0.89 | ppb |
| Copper | 63-2 | 28.19 | 28.52 | 27.77 | 28.16 | 1.35 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 101126.81 | 101314.17 | 99254.75 | 100565.25 | 1.13 | ppb |
| Iron | 56-2 | 101949.54 | 101954.73 | 98882.26 | 100928.84 | 1.76 | ppb |
| Iron | 57-2 | 100776.80 | 100435.59 | 100573.25 | 100595.21 | 0.17 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 24.93 | 25.83 | 25.15 | 25.30 | 1.85 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 24.33 | 24.85 | 24.21 | 24.46 | 1.39 | ppb |
| Lead | 208-1 | 24.23 | 24.96 | 24.54 | 24.57 | 1.50 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | 93817.02 | 92229.32 | 90773.97 | 92273.44 | 1.65 | ppb |
| Manganese | 55-2 | 27.55 | 27.45 | 27.28 | 27.43 | 0.49 | ppb |
| Molybdenum | 94-1 | 1639.91 | 1670.97 | 1625.09 | 1645.32 | 1.42 | ppb |
| Molybdenum | 95-1 | 1998.17 | 2034.59 | 1960.54 | 1997.77 | 1.85 | ppb |
| Molybdenum | 96-1 | 1952.81 | 1985.38 | 1920.36 | 1952.85 | 1.66 | ppb |
| Molybdenum | 97-1 | 2016.37 | 2014.38 | 1979.61 | 2003.46 | 1.03 | ppb |
| Molybdenum | 98-1 | 1988.57 | 1997.40 | 1973.47 | 1986.48 | 0.61 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 24.88 | 24.90 | 24.26 | 24.68 | 1.48 | ppb |
| Phosphorus | 31-2 | 102725.17 | 103054.30 | 101474.46 | 102417.98 | 0.81 | ppb |
| Potassium | 39-2 | 98068.32 | 96128.18 | 95239.45 | 96478.65 | 1.50 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 92 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 20.32 | 21.21 | 20.08 | 20.54 | 2.90 | ppb |
| Selenium | 77-2 | 16.11 | 26.66 | 19.15 | 20.64 | 26.30 | ppb |
| Selenium | 78-2 | 21.99 | 15.30 | 19.81 | 19.03 | 17.93 | ppb |
| Silicon | 28-1 | 29.67 | 31.47 | 30.57 | 30.57 | 2.95 | ppb |
| Silver | 107-1 | 18.50 | 19.04 | 19.08 | 18.87 | 1.72 | ppb |
| Silver | 109-1 | 18.95 | 19.48 | 19.21 | 19.21 | 1.38 | ppb |
| Sodium | 23-2 | 99052.85 | 99081.49 | 97073.01 | 98402.45 | 1.17 | ppb |
| Strontium | 86-1 | 33.28 | 34.14 | 33.47 | 33.63 | 1.35 | ppb |
| Strontium | 88-1 | 34.33 | 35.69 | 34.55 | 34.86 | 2.11 | ppb |
| Sulfur | 34-1 | 96791.42 | 97585.44 | 95879.23 | 96752.03 | 0.88 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 20.54 | 21.28 | 20.95 | 20.92 | 1.77 | ppb |
| Thallium | 205-1 | 20.65 | 21.27 | 21.03 | 20.98 | 1.49 | ppb |
| Tin | 118-1 | 0.17 | 0.15 | 0.19 | 0.17 | 10.22 | ppb |
| Titanium | 47-1 | 2059.76 | 2151.40 | 2094.71 | 2101.96 | 2.20 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.51 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 19.95 | 19.94 | 19.65 | 19.84 | 0.86 | 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 | 30.69 | 31.48 | 30.76 | 30.97 | 1.41 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.52 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.03 | 17.94 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 48684.71 | 47566.56 | 48760.86 | 48337.38 | 1.38 | ppb |
| Antimony | 121-1 | 487.95 | 506.55 | 499.37 | 497.95 | 1.88 | ppb |
| Arsenic | 75-2 | 494.26 | 494.86 | 494.14 | 494.42 | 0.08 | ppb |
| Barium | 135-1 | 2494.21 | 2579.48 | 2508.38 | 2527.36 | 1.81 | ppb |
| Barium | 137-1 | 2467.54 | 2517.39 | 2561.62 | 2515.52 | 1.87 | ppb |
| Beryllium | 9-1 | 502.11 | 526.64 | 519.81 | 516.19 | 2.45 | ppb |
| Bismuth | 209-1 | | | | 87 | | % |
| Bismuth | 209-2 | | | | 87 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 482.69 | 495.79 | 492.52 | 490.33 | 1.39 | ppb |
| Cadmium | 106-1 | 478.71 | 490.67 | 500.17 | 489.85 | 2.20 | ppb |
| Cadmium | 111-1 | 483.04 | 504.07 | 493.47 | 493.53 | 2.13 | ppb |
| Calcium | 43-1 | 234940.28 | 236153.02 | 239051.28 | 236714.86 | 0.89 | ppb |
| Calcium | 44-1 | 227705.13 | 235151.37 | 237615.88 | 233490.80 | 2.21 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 509.75 | 511.27 | 510.13 | 510.38 | 0.16 | ppb |
| Cobalt | 59-2 | 496.60 | 490.40 | 493.29 | 493.43 | 0.63 | ppb |
| Copper | 63-2 | 4863.77 | 4724.25 | 4868.36 | 4818.79 | 1.70 | 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 | | | | 95 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 90 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 121141.35 | 119211.95 | 121866.25 | 120739.85 | 1.14 | ppb |
| Iron | 56-2 | 120540.50 | 122285.71 | 121501.39 | 121442.53 | 0.72 | ppb |
| Iron | 57-2 | 121437.24 | 121542.70 | 121413.88 | 121464.61 | 0.06 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2563.31 | 2645.43 | 2581.51 | 2596.75 | 1.66 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2554.95 | 2652.65 | 2592.83 | 2600.14 | 1.89 | ppb |
| Lead | 208-1 | 2531.96 | 2624.28 | 2582.37 | 2579.54 | 1.79 | ppb |
| Lithium | 6-1 | | | | 89 | | % |
| Magnesium | 24-2 | 241105.86 | 234007.32 | 235873.87 | 236995.69 | 1.55 | ppb |
| Manganese | 55-2 | 5015.49 | 5044.50 | 4989.22 | 5016.40 | 0.55 | ppb |
| Molybdenum | 94-1 | 5023.53 | 5211.92 | 5179.51 | 5138.32 | 1.96 | ppb |
| Molybdenum | 95-1 | 5069.41 | 5160.06 | 5200.53 | 5143.34 | 1.31 | ppb |
| Molybdenum | 96-1 | 5073.57 | 5060.71 | 5219.40 | 5117.90 | 1.72 | ppb |
| Molybdenum | 97-1 | 5073.85 | 5076.58 | 5196.56 | 5115.66 | 1.37 | ppb |
| Molybdenum | 98-1 | 5086.56 | 5122.49 | 5185.19 | 5131.41 | 0.97 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 463.62 | 454.63 | 465.39 | 461.21 | 1.25 | ppb |
| Phosphorus | 31-2 | 10104.79 | 10053.41 | 10101.84 | 10086.68 | 0.29 | ppb |
| Potassium | 39-2 | 119898.19 | 117690.11 | 118084.91 | 118557.74 | 0.99 | ppb |
| Rhodium | 103-1 | | | | 85 | | % |
| Rhodium | 103-2 | | | | 87 | | % |
| Scandium | 45-1 | | | | 92 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 485.73 | 493.35 | 499.96 | 493.01 | 1.44 | ppb |
| Selenium | 77-2 | 445.49 | 504.23 | 500.57 | 483.43 | 6.81 | ppb |
| Selenium | 78-2 | 475.04 | 499.65 | 500.61 | 491.77 | 2.95 | ppb |
| Silicon | 28-1 | 500.22 | 521.83 | 528.27 | 516.78 | 2.84 | ppb |
| Silver | 107-1 | 479.93 | 489.67 | 491.59 | 487.06 | 1.28 | ppb |
| Silver | 109-1 | 475.39 | 500.91 | 490.47 | 488.92 | 2.62 | ppb |
| Sodium | 23-2 | 236252.17 | 234513.11 | 232850.32 | 234538.53 | 0.73 | ppb |
| Strontium | 86-1 | 512.29 | 524.44 | 517.13 | 517.95 | 1.18 | ppb |
| Strontium | 88-1 | 504.83 | 506.20 | 518.30 | 509.78 | 1.45 | ppb |
| Sulfur | 34-1 | 9315.40 | 9765.95 | 9773.03 | 9618.13 | 2.73 | ppb |
| Terbium | 159-1 | | | | 96 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 516.99 | 522.55 | 513.59 | 517.71 | 0.87 | ppb |
| Thallium | 205-1 | 505.66 | 530.81 | 529.14 | 521.87 | 2.70 | ppb |
| Tin | 118-1 | 500.15 | 507.17 | 515.18 | 507.50 | 1.48 | ppb |
| Titanium | 47-1 | 5012.58 | 5049.98 | 5311.35 | 5124.64 | 3.18 | ppb |
| Uranium | 238-1 | 513.56 | 536.35 | 524.96 | 524.96 | 2.17 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 506.69 | 504.86 | 512.71 | 508.09 | 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 | 4818.09 | 4799.52 | 4851.23 | 4822.95 | 0.54 | ppb |
| Zirconium | 90-1 | 506.62 | 526.47 | 517.01 | 516.70 | 1.92 | ppb |
| Zirconium | 91-1 | 508.27 | 523.59 | 529.89 | 520.58 | 2.14 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.37 | 0.72 | 0.50 | 0.53 | 33.44 | ppb |
| Antimony | 121-1 | 0.04 | 0.03 | 0.03 | 0.03 | 3.35 | ppb |
| Arsenic | 75-2 | -0.02 | -0.02 | 0.00 | -0.01 | | ppb |
| Barium | 135-1 | 0.00 | 0.01 | 0.00 | 0.00 | 162.12 | ppb |
| Barium | 137-1 | 0.01 | 0.01 | 0.00 | 0.00 | 157.64 | ppb |
| Beryllium | 9-1 | 0.09 | 0.08 | 0.08 | 0.08 | 7.58 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.04 | 0.04 | 0.00 | 0.00 | | ppb |
| Cadmium | 106-1 | -0.98 | -0.73 | -0.94 | -0.89 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.05 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | -4.05 | -3.57 | -4.15 | -3.92 | | ppb |
| Calcium | 44-1 | -2.80 | -2.99 | -0.96 | -2.25 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.18 | -0.15 | -0.16 | -0.16 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.04 | 0.01 | 0.02 | 0.02 | 58.48 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 1.49 | 1.08 | 0.85 | 1.14 | 28.39 | ppb |
| Iron | 56-2 | 1.16 | 1.18 | 1.14 | 1.16 | 2.05 | ppb |
| Iron | 57-2 | 0.86 | 1.17 | -0.18 | 0.62 | 114.32 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.16 | 0.15 | 0.17 | 0.16 | 4.92 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.17 | 0.16 | 0.17 | 0.16 | 3.75 | ppb |
| Lead | 208-1 | 0.17 | 0.16 | 0.17 | 0.17 | 2.10 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | -11.42 | -11.71 | -11.37 | -11.50 | | ppb |
| Manganese | 55-2 | 0.02 | 0.00 | 0.00 | 0.01 | 165.56 | ppb |
| Molybdenum | 94-1 | 0.05 | 0.04 | 0.05 | 0.04 | 10.02 | ppb |
| Molybdenum | 95-1 | 0.05 | 0.03 | 0.03 | 0.04 | 32.20 | ppb |
| Molybdenum | 96-1 | 0.05 | 0.04 | 0.03 | 0.04 | 29.38 | ppb |
| Molybdenum | 97-1 | 0.05 | 0.03 | 0.03 | 0.04 | 36.48 | ppb |
| Molybdenum | 98-1 | 0.05 | 0.03 | 0.03 | 0.03 | 31.54 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.07 | -0.08 | -0.05 | -0.07 | | ppb |
| Phosphorus | 31-2 | -26.49 | -19.82 | -17.80 | -21.37 | | ppb |
| Potassium | 39-2 | 19.32 | 16.75 | 18.48 | 18.18 | 7.20 | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | -0.53 | 0.18 | -0.12 | -0.16 | | ppb |
| Selenium | 77-2 | 0.00 | 0.67 | 0.00 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.61 | -0.42 | -0.61 | -0.55 | | ppb |
| Silicon | 28-1 | -2.60 | -1.03 | 0.06 | -1.19 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 11.00 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.01 | 0.02 | 21.15 | ppb |
| Sodium | 23-2 | 34.98 | 30.25 | 31.97 | 32.40 | 7.39 | ppb |
| Strontium | 86-1 | 0.00 | 0.00 | 0.01 | 0.00 | 1760.38 | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | 8.49 | ppb |
| Sulfur | 34-1 | -811.46 | -489.84 | -197.89 | -499.73 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.03 | 0.04 | 0.04 | 0.03 | 11.57 | ppb |
| Thallium | 205-1 | 0.03 | 0.04 | 0.03 | 0.03 | 5.90 | ppb |
| Tin | 118-1 | -0.01 | 0.01 | 0.00 | 0.00 | | ppb |
| Titanium | 47-1 | 0.05 | 0.04 | 0.02 | 0.04 | 35.56 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 57.70 | 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 | -0.15 | -0.02 | -0.11 | -0.09 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.01 | 0.01 | 48.33 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.64 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12869.41 | 15272.54 | 13277.41 | 13806.46 | 9.31 | ppb |
| Antimony | 121-1 | 2.33 | 2.45 | 2.47 | 2.42 | 3.26 | ppb |
| Arsenic | 75-2 | 40.25 | 44.88 | 41.36 | 42.16 | 5.73 | ppb |
| Barium | 135-1 | 675.35 | 710.28 | 714.63 | 700.09 | 3.08 | ppb |
| Barium | 137-1 | 671.25 | 698.79 | 708.15 | 692.73 | 2.77 | ppb |
| Beryllium | 9-1 | 3.77 | 3.82 | 3.78 | 3.79 | 0.81 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 17.06 | 17.97 | 17.13 | 17.39 | 2.92 | ppb |
| Cadmium | 106-1 | 18.30 | 17.87 | 18.55 | 18.24 | 1.88 | ppb |
| Cadmium | 111-1 | 19.45 | 19.88 | 20.39 | 19.91 | 2.37 | ppb |
| Calcium | 43-1 | 147297.62 | 152053.23 | 151181.48 | 150177.44 | 1.69 | ppb |
| Calcium | 44-1 | 148319.07 | 146931.25 | 148087.35 | 147779.22 | 0.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 57.61 | 65.09 | 59.49 | 60.73 | 6.41 | ppb |
| Cobalt | 59-2 | 18.39 | 20.79 | 18.97 | 19.38 | 6.46 | ppb |
| Copper | 63-2 | 381.34 | 420.03 | 378.86 | 393.41 | 5.87 | 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 | | | | 104 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 34560.60 | 38630.48 | 35217.26 | 36136.11 | 6.05 | ppb |
| Iron | 56-2 | 34445.43 | 38785.99 | 35513.31 | 36248.25 | 6.24 | ppb |
| Iron | 57-2 | 35289.50 | 39539.28 | 35457.60 | 36762.12 | 6.55 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1493.06 | 1540.00 | 1525.08 | 1519.38 | 1.58 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1446.24 | 1499.40 | 1500.74 | 1482.12 | 2.10 | ppb |
| Lead | 208-1 | 1464.24 | 1505.46 | 1510.66 | 1493.45 | 1.70 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 10872.35 | 12477.09 | 11443.04 | 11597.49 | 7.01 | ppb |
| Manganese | 55-2 | 5966.92 | 6653.71 | 6115.99 | 6245.54 | 5.78 | ppb |
| Molybdenum | 94-1 | 8.22 | 8.81 | 8.75 | 8.60 | 3.78 | ppb |
| Molybdenum | 95-1 | 2.10 | 2.20 | 2.17 | 2.16 | 2.42 | ppb |
| Molybdenum | 96-1 | 2.68 | 2.83 | 2.89 | 2.80 | 3.72 | ppb |
| Molybdenum | 97-1 | 2.03 | 2.18 | 2.18 | 2.13 | 4.01 | ppb |
| Molybdenum | 98-1 | 2.08 | 2.21 | 2.16 | 2.15 | 3.15 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 68.27 | 76.29 | 69.40 | 71.32 | 6.09 | ppb |
| Phosphorus | 31-2 | 2752.10 | 3217.81 | 2902.01 | 2957.31 | 8.04 | ppb |
| Potassium | 39-2 | 5455.15 | 6198.58 | 5617.01 | 5756.91 | 6.79 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 10.93 | 11.49 | 11.39 | 11.27 | 2.67 | ppb |
| Selenium | 77-2 | 61.71 | 78.85 | 67.08 | 69.22 | 12.67 | ppb |
| Selenium | 78-2 | 19.94 | 19.31 | 20.30 | 19.85 | 2.52 | ppb |
| Silicon | 28-1 | 9541.28 | 9900.01 | 10039.52 | 9826.94 | 2.62 | ppb |
| Silver | 107-1 | 7.48 | 7.71 | 7.83 | 7.67 | 2.36 | ppb |
| Silver | 109-1 | 7.54 | 7.85 | 7.77 | 7.72 | 2.09 | ppb |
| Sodium | 23-2 | 554.82 | 645.24 | 577.78 | 592.61 | 7.93 | ppb |
| Strontium | 86-1 | 534.98 | 550.88 | 548.47 | 544.78 | 1.57 | ppb |
| Strontium | 88-1 | 530.92 | 559.15 | 548.66 | 546.24 | 2.61 | ppb |
| Sulfur | 34-1 | 310.79 | 540.51 | 625.74 | 492.35 | 33.09 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.66 | 0.72 | 0.73 | 0.70 | 5.03 | ppb |
| Thallium | 205-1 | 0.66 | 0.72 | 0.74 | 0.71 | 5.59 | ppb |
| Tin | 118-1 | 13.52 | 13.98 | 14.07 | 13.85 | 2.13 | ppb |
| Titanium | 47-1 | 225.95 | 230.28 | 234.65 | 230.29 | 1.89 | ppb |
| Uranium | 238-1 | 3.60 | 3.75 | 3.72 | 3.69 | 2.13 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 61.81 | 70.89 | 64.80 | 65.83 | 7.03 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 4189.27 | 4706.41 | 4283.42 | 4393.04 | 6.27 | ppb |
| Zirconium | 90-1 | 3.64 | 3.87 | 3.84 | 3.79 | 3.32 | ppb |
| Zirconium | 91-1 | 3.59 | 3.80 | 3.86 | 3.75 | 3.88 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20651.43 | 21726.71 | 21064.62 | 21147.59 | 2.56 | ppb |
| Antimony | 121-1 | 3.93 | 3.91 | 3.91 | 3.92 | 0.36 | ppb |
| Arsenic | 75-2 | 72.97 | 76.84 | 73.68 | 74.50 | 2.77 | ppb |
| Barium | 135-1 | 2803.59 | 2793.00 | 2723.55 | 2773.38 | 1.57 | ppb |
| Barium | 137-1 | 2774.51 | 2831.01 | 2740.42 | 2781.98 | 1.64 | ppb |
| Beryllium | 9-1 | 3.60 | 3.50 | 3.41 | 3.50 | 2.63 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 71.49 | 71.24 | 69.29 | 70.68 | 1.70 | ppb |
| Cadmium | 106-1 | 69.72 | 69.70 | 70.08 | 69.83 | 0.31 | ppb |
| Cadmium | 111-1 | 85.46 | 85.22 | 84.81 | 85.16 | 0.39 | ppb |
| Calcium | 43-1 | 129836.20 | 129963.47 | 126400.52 | 128733.40 | 1.57 | ppb |
| Calcium | 44-1 | 126905.97 | 129455.38 | 124617.11 | 126992.82 | 1.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 42.92 | 45.27 | 44.08 | 44.09 | 2.66 | ppb |
| Cobalt | 59-2 | 36.74 | 38.96 | 37.74 | 37.81 | 2.95 | ppb |
| Copper | 63-2 | 632.16 | 676.34 | 645.78 | 651.43 | 3.47 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 109257.95 | 114993.12 | 111229.24 | 111826.77 | 2.61 | ppb |
| Iron | 56-2 | 110433.63 | 115948.43 | 111872.61 | 112751.56 | 2.54 | ppb |
| Iron | 57-2 | 110310.44 | 116026.20 | 112502.70 | 112946.45 | 2.55 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1831.26 | 1801.17 | 1791.64 | 1808.02 | 1.14 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1779.24 | 1775.80 | 1750.96 | 1768.67 | 0.87 | ppb |
| Lead | 208-1 | 1794.38 | 1777.80 | 1765.26 | 1779.14 | 0.82 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 13822.73 | 14114.23 | 13550.20 | 13829.05 | 2.04 | ppb |
| Manganese | 55-2 | 6861.50 | 7206.96 | 6983.61 | 7017.36 | 2.50 | ppb |
| Molybdenum | 94-1 | 9.66 | 9.81 | 9.32 | 9.59 | 2.63 | ppb |
| Molybdenum | 95-1 | 4.81 | 4.80 | 4.66 | 4.76 | 1.83 | ppb |
| Molybdenum | 96-1 | 5.32 | 5.29 | 5.17 | 5.26 | 1.55 | ppb |
| Molybdenum | 97-1 | 4.87 | 4.75 | 4.68 | 4.76 | 2.01 | ppb |
| Molybdenum | 98-1 | 4.69 | 4.73 | 4.64 | 4.69 | 0.98 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 493.32 | 519.59 | 501.61 | 504.84 | 2.66 | ppb |
| Phosphorus | 31-2 | 4038.67 | 4208.36 | 3957.88 | 4068.31 | 3.14 | ppb |
| Potassium | 39-2 | 7427.09 | 7810.31 | 7569.69 | 7602.37 | 2.55 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 11.26 | 11.92 | 11.74 | 11.64 | 2.92 | ppb |
| Selenium | 77-2 | 77.76 | 74.46 | 81.61 | 77.94 | 4.59 | ppb |
| Selenium | 78-2 | 21.76 | 19.50 | 21.44 | 20.90 | 5.85 | ppb |
| Silicon | 28-1 | 5516.66 | 5681.79 | 5473.82 | 5557.42 | 1.98 | ppb |
| Silver | 107-1 | 9.37 | 9.37 | 9.37 | 9.37 | 0.03 | ppb |
| Silver | 109-1 | 9.41 | 9.48 | 9.38 | 9.43 | 0.53 | ppb |
| Sodium | 23-2 | 904.52 | 968.81 | 926.75 | 933.36 | 3.50 | ppb |
| Strontium | 86-1 | 502.67 | 491.72 | 494.24 | 496.21 | 1.16 | ppb |
| Strontium | 88-1 | 503.15 | 492.64 | 478.54 | 491.44 | 2.51 | ppb |
| Sulfur | 34-1 | 947.24 | 1172.74 | 1108.81 | 1076.26 | 10.80 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 1.14 | 1.17 | 1.16 | 1.16 | 1.37 | ppb |
| Thallium | 205-1 | 1.14 | 1.16 | 1.16 | 1.15 | 1.02 | ppb |
| Tin | 118-1 | 30.41 | 30.33 | 30.09 | 30.28 | 0.54 | ppb |
| Titanium | 47-1 | 332.31 | 332.81 | 329.58 | 331.57 | 0.52 | ppb |
| Uranium | 238-1 | 4.46 | 4.42 | 4.32 | 4.40 | 1.65 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 107.27 | 114.57 | 111.08 | 110.97 | 3.29 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 5546.64 | 6037.57 | 5651.04 | 5745.08 | 4.50 | ppb |
| Zirconium | 90-1 | 3.17 | 3.19 | 3.12 | 3.16 | 1.10 | ppb |
| Zirconium | 91-1 | 3.20 | 3.28 | 3.13 | 3.20 | 2.42 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.20 | 0.12 | 0.09 | 0.00 | 8918.26 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.01 | 0.00 | 7.92 | ppb |
| Arsenic | 75-2 | 0.00 | 0.03 | -0.02 | 0.00 | 530.04 | ppb |
| Barium | 135-1 | 0.00 | 0.00 | 0.01 | 0.00 | 182.68 | ppb |
| Barium | 137-1 | 0.01 | 0.00 | 0.00 | 0.00 | 119.29 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.06 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.06 | 0.03 | 0.04 | 42.90 | ppb |
| Cadmium | 106-1 | -1.06 | -0.87 | -0.59 | -0.84 | | ppb |
| Cadmium | 111-1 | -0.08 | -0.07 | -0.04 | -0.06 | | ppb |
| Calcium | 43-1 | -2.52 | -3.00 | -4.78 | -3.43 | | ppb |
| Calcium | 44-1 | 0.83 | -2.76 | -3.28 | -1.74 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.20 | -0.19 | -0.17 | -0.18 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | -0.08 | -0.06 | -0.09 | -0.08 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 97 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 0.80 | 0.71 | 0.57 | 0.69 | 16.67 | ppb |
| Iron | 56-2 | 1.07 | 0.86 | 0.83 | 0.92 | 14.17 | ppb |
| Iron | 57-2 | 0.17 | 0.49 | -0.20 | 0.15 | 225.54 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.15 | 0.13 | 0.13 | 0.14 | 7.21 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.16 | 0.12 | 0.14 | 0.14 | 15.14 | ppb |
| Lead | 208-1 | 0.16 | 0.13 | 0.13 | 0.14 | 12.63 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | -11.80 | -11.96 | -11.69 | -11.82 | | ppb |
| Manganese | 55-2 | 0.05 | 0.05 | -0.01 | 0.03 | 109.47 | ppb |
| Molybdenum | 94-1 | 0.01 | 0.00 | 0.00 | 0.00 | 417.06 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | 823.13 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.01 | 0.00 | 0.00 | 255.45 | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 61.87 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.05 | -0.08 | -0.08 | -0.07 | | ppb |
| Phosphorus | 31-2 | -30.05 | -26.73 | -24.85 | -27.21 | | ppb |
| Potassium | 39-2 | 5.13 | 8.54 | 7.62 | 7.10 | 24.89 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | -0.09 | -0.21 | -0.43 | -0.24 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.23 | -0.05 | -0.81 | -0.36 | | ppb |
| Silicon | 28-1 | 4.98 | -0.29 | -1.22 | 1.16 | 288.83 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.78 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.50 | ppb |
| Sodium | 23-2 | 11.53 | 9.69 | 11.00 | 10.74 | 8.82 | ppb |
| Strontium | 86-1 | 0.02 | -0.01 | 0.01 | 0.01 | 150.81 | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | 24.77 | ppb |
| Sulfur | 34-1 | 737.64 | -244.45 | -406.58 | 28.87 | 2144.58 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 12.63 | ppb |
| Thallium | 205-1 | 0.03 | 0.02 | 0.03 | 0.03 | 13.45 | ppb |
| Tin | 118-1 | 0.01 | -0.01 | -0.01 | 0.00 | | ppb |
| Titanium | 47-1 | 0.03 | 0.02 | 0.00 | 0.02 | 76.57 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 25.75 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | -0.17 | -0.08 | -0.11 | -0.12 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | 58.54 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 38.13 | 39.72 | 37.33 | 38.39 | 3.17 | ppb |
| Antimony | 121-1 | 3.89 | 3.82 | 3.93 | 3.88 | 1.44 | ppb |
| Arsenic | 75-2 | 2.03 | 1.89 | 2.07 | 2.00 | 4.82 | ppb |
| Barium | 135-1 | 18.90 | 18.93 | 19.47 | 19.10 | 1.69 | ppb |
| Barium | 137-1 | 19.12 | 19.10 | 19.37 | 19.20 | 0.79 | ppb |
| Beryllium | 9-1 | 2.05 | 2.06 | 2.07 | 2.06 | 0.54 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.99 | 1.62 | 1.84 | 1.82 | 10.36 | ppb |
| Cadmium | 106-1 | 1.81 | 1.17 | 2.30 | 1.76 | 32.28 | ppb |
| Cadmium | 111-1 | 1.93 | 1.97 | 2.13 | 2.01 | 5.32 | ppb |
| Calcium | 43-1 | 1131.32 | 1143.03 | 1132.18 | 1135.51 | 0.57 | ppb |
| Calcium | 44-1 | 1019.05 | 1037.88 | 1015.64 | 1024.19 | 1.17 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.59 | 3.41 | 3.45 | 3.48 | 2.76 | ppb |
| Cobalt | 59-2 | 1.91 | 1.97 | 1.94 | 1.94 | 1.57 | ppb |
| Copper | 63-2 | 4.30 | 4.17 | 4.18 | 4.22 | 1.76 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 381.64 | 387.77 | 374.58 | 381.33 | 1.73 | ppb |
| Iron | 56-2 | 382.74 | 378.68 | 381.54 | 380.99 | 0.55 | ppb |
| Iron | 57-2 | 379.53 | 378.34 | 375.82 | 377.90 | 0.50 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.96 | 1.90 | 1.88 | 1.91 | 1.94 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.97 | 1.94 | 1.95 | 1.96 | 0.72 | ppb |
| Lead | 208-1 | 1.96 | 1.91 | 1.93 | 1.93 | 1.16 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 878.40 | 889.73 | 870.06 | 879.40 | 1.12 | ppb |
| Manganese | 55-2 | 2.01 | 1.91 | 1.91 | 1.94 | 2.91 | ppb |
| Molybdenum | 94-1 | 11.07 | 10.97 | 11.12 | 11.05 | 0.68 | ppb |
| Molybdenum | 95-1 | 9.34 | 9.25 | 9.45 | 9.35 | 1.10 | ppb |
| Molybdenum | 96-1 | 9.45 | 9.41 | 9.45 | 9.44 | 0.26 | ppb |
| Molybdenum | 97-1 | 9.38 | 9.43 | 9.36 | 9.39 | 0.36 | ppb |
| Molybdenum | 98-1 | 9.13 | 9.20 | 9.27 | 9.20 | 0.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.94 | 1.84 | 1.86 | 1.88 | 2.87 | ppb |
| Phosphorus | 31-2 | 31.42 | 28.18 | 28.40 | 29.33 | 6.17 | ppb |
| Potassium | 39-2 | 914.27 | 907.67 | 918.20 | 913.38 | 0.58 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 9.33 | 8.88 | 10.91 | 9.71 | 10.96 | ppb |
| Selenium | 77-2 | 11.29 | 12.05 | 6.03 | 9.79 | 33.49 | ppb |
| Selenium | 78-2 | 8.64 | 9.11 | 9.70 | 9.15 | 5.78 | ppb |
| Silicon | 28-1 | 19.09 | 18.77 | 17.10 | 18.32 | 5.83 | ppb |
| Silver | 107-1 | 1.97 | 1.92 | 2.02 | 1.97 | 2.57 | ppb |
| Silver | 109-1 | 1.92 | 1.97 | 1.97 | 1.95 | 1.53 | ppb |
| Sodium | 23-2 | 939.22 | 925.84 | 923.56 | 929.54 | 0.91 | ppb |
| Strontium | 86-1 | 428.95 | 422.15 | 434.51 | 428.54 | 1.44 | ppb |
| Strontium | 88-1 | 418.47 | 420.64 | 414.39 | 417.84 | 0.76 | ppb |
| Sulfur | 34-1 | -164.01 | -210.27 | -167.84 | -180.71 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 1.89 | 1.82 | 1.85 | 1.85 | 1.97 | ppb |
| Thallium | 205-1 | 1.86 | 1.85 | 1.84 | 1.85 | 0.59 | ppb |
| Tin | 118-1 | 9.78 | 9.60 | 9.87 | 9.75 | 1.43 | ppb |
| Titanium | 47-1 | 2.26 | 2.31 | 2.28 | 2.28 | 1.18 | ppb |
| Uranium | 238-1 | 1.71 | 1.71 | 1.71 | 1.71 | 0.17 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9.42 | 9.69 | 9.53 | 9.55 | 1.41 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 9.70 | 10.09 | 10.07 | 9.95 | 2.22 | ppb |
| Zirconium | 90-1 | 1.80 | 1.85 | 1.82 | 1.82 | 1.35 | ppb |
| Zirconium | 91-1 | 1.86 | 1.82 | 1.88 | 1.85 | 1.73 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20365.67 | 20646.52 | 20892.87 | 20635.02 | 1.28 | ppb |
| Antimony | 121-1 | 1.09 | 1.16 | 1.18 | 1.15 | 4.07 | ppb |
| Arsenic | 75-2 | 55.35 | 54.91 | 56.50 | 55.59 | 1.48 | ppb |
| Barium | 135-1 | 226.97 | 233.20 | 238.84 | 233.00 | 2.55 | ppb |
| Barium | 137-1 | 240.30 | 243.40 | 252.62 | 245.44 | 2.61 | ppb |
| Beryllium | 9-1 | 1.00 | 1.04 | 1.00 | 1.01 | 2.32 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.44 | 0.45 | 0.51 | 0.47 | 8.40 | ppb |
| Cadmium | 106-1 | -0.17 | -0.25 | -0.27 | -0.23 | | ppb |
| Cadmium | 111-1 | 0.15 | 0.13 | 0.16 | 0.14 | 8.66 | ppb |
| Calcium | 43-1 | 5193.16 | 5398.00 | 5289.56 | 5293.58 | 1.94 | ppb |
| Calcium | 44-1 | 5267.65 | 5416.88 | 5305.39 | 5329.97 | 1.46 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 48.13 | 49.41 | 49.59 | 49.04 | 1.62 | ppb |
| Cobalt | 59-2 | 27.41 | 27.59 | 27.89 | 27.63 | 0.88 | ppb |
| Copper | 63-2 | 93.55 | 95.72 | 95.45 | 94.91 | 1.25 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 57248.47 | 58228.01 | 58399.88 | 57958.79 | 1.07 | ppb |
| Iron | 56-2 | 58767.60 | 58996.65 | 59047.21 | 58937.15 | 0.25 | ppb |
| Iron | 57-2 | 58691.58 | 60234.31 | 59052.04 | 59325.98 | 1.36 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 23.92 | 24.60 | 24.98 | 24.50 | 2.19 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23.09 | 23.54 | 23.86 | 23.50 | 1.65 | ppb |
| Lead | 208-1 | 23.35 | 23.95 | 24.39 | 23.90 | 2.18 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 10444.06 | 10354.59 | 10380.72 | 10393.12 | 0.44 | ppb |
| Manganese | 55-2 | 468.00 | 477.03 | 477.12 | 474.05 | 1.11 | ppb |
| Molybdenum | 94-1 | 2.51 | 2.61 | 2.64 | 2.59 | 2.56 | ppb |
| Molybdenum | 95-1 | 1.12 | 1.21 | 1.26 | 1.20 | 5.93 | ppb |
| Molybdenum | 96-1 | 1.34 | 1.40 | 1.41 | 1.38 | 2.71 | ppb |
| Molybdenum | 97-1 | 1.09 | 1.27 | 1.23 | 1.20 | 8.01 | ppb |
| Molybdenum | 98-1 | 1.14 | 1.20 | 1.20 | 1.18 | 2.77 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 70.74 | 72.97 | 72.30 | 72.00 | 1.59 | ppb |
| Phosphorus | 31-2 | 574.20 | 615.19 | 648.03 | 612.47 | 6.04 | ppb |
| Potassium | 39-2 | 555.37 | 555.51 | 558.66 | 556.51 | 0.33 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.68 | 0.51 | 1.22 | 0.81 | 45.70 | ppb |
| Selenium | 77-2 | 27.35 | 25.22 | 21.06 | 24.54 | 13.04 | ppb |
| Selenium | 78-2 | 5.28 | 4.01 | 5.11 | 4.80 | 14.36 | ppb |
| Silicon | 28-1 | 5545.17 | 5719.41 | 5648.48 | 5637.69 | 1.55 | ppb |
| Silver | 107-1 | 0.42 | 0.41 | 0.37 | 0.40 | 7.22 | ppb |
| Silver | 109-1 | 0.43 | 0.37 | 0.36 | 0.39 | 9.35 | ppb |
| Sodium | 23-2 | 99.92 | 105.27 | 106.41 | 103.87 | 3.34 | ppb |
| Strontium | 86-1 | 49.05 | 51.17 | 51.35 | 50.52 | 2.52 | ppb |
| Strontium | 88-1 | 51.45 | 52.91 | 52.78 | 52.38 | 1.55 | ppb |
| Sulfur | 34-1 | -1923.57 | -2033.27 | -2290.65 | -2082.50 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.19 | 0.21 | 0.22 | 0.21 | 5.67 | ppb |
| Thallium | 205-1 | 0.20 | 0.21 | 0.22 | 0.21 | 6.35 | ppb |
| Tin | 118-1 | 0.31 | 0.30 | 0.34 | 0.32 | 6.65 | ppb |
| Titanium | 47-1 | 21.40 | 21.94 | 21.82 | 21.72 | 1.30 | ppb |
| Uranium | 238-1 | 0.43 | 0.44 | 0.45 | 0.44 | 1.83 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 61.04 | 61.74 | 61.97 | 61.59 | 0.79 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 128.18 | 128.73 | 130.07 | 128.99 | 0.75 | ppb |
| Zirconium | 90-1 | 0.84 | 0.89 | 0.89 | 0.87 | 3.41 | ppb |
| Zirconium | 91-1 | 0.86 | 0.89 | 0.91 | 0.89 | 2.86 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20503.46 | 20756.85 | 20279.42 | 20513.24 | 1.16 | ppb |
| Antimony | 121-1 | 1.05 | 1.06 | 1.02 | 1.04 | 1.95 | ppb |
| Arsenic | 75-2 | 53.35 | 54.95 | 54.23 | 54.18 | 1.48 | ppb |
| Barium | 135-1 | 232.61 | 233.58 | 231.10 | 232.43 | 0.54 | ppb |
| Barium | 137-1 | 239.47 | 239.73 | 239.64 | 239.61 | 0.05 | ppb |
| Beryllium | 9-1 | 1.03 | 1.00 | 1.05 | 1.03 | 2.47 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.42 | 0.44 | 0.38 | 0.41 | 6.44 | ppb |
| Cadmium | 106-1 | -1.50 | -0.77 | -1.15 | -1.14 | | ppb |
| Cadmium | 111-1 | 0.05 | 0.12 | 0.07 | 0.08 | 41.58 | ppb |
| Calcium | 43-1 | 5369.78 | 5368.52 | 5405.48 | 5381.26 | 0.39 | ppb |
| Calcium | 44-1 | 5310.48 | 5394.08 | 5379.48 | 5361.35 | 0.83 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 49.11 | 49.36 | 49.10 | 49.19 | 0.30 | ppb |
| Cobalt | 59-2 | 27.85 | 27.80 | 27.67 | 27.78 | 0.34 | ppb |
| Copper | 63-2 | 95.65 | 95.34 | 95.14 | 95.37 | 0.27 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 57723.70 | 59120.02 | 57822.37 | 58222.03 | 1.34 | ppb |
| Iron | 56-2 | 58240.06 | 59052.32 | 59491.79 | 58928.06 | 1.08 | ppb |
| Iron | 57-2 | 59391.88 | 58729.94 | 58174.67 | 58765.49 | 1.04 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 24.30 | 24.54 | 24.67 | 24.50 | 0.78 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23.03 | 23.37 | 23.25 | 23.21 | 0.75 | ppb |
| Lead | 208-1 | 23.53 | 23.90 | 23.87 | 23.77 | 0.85 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 10378.03 | 10320.92 | 10549.27 | 10416.07 | 1.14 | ppb |
| Manganese | 55-2 | 468.89 | 475.41 | 468.77 | 471.02 | 0.81 | ppb |
| Molybdenum | 94-1 | 2.47 | 2.52 | 2.60 | 2.53 | 2.52 | ppb |
| Molybdenum | 95-1 | 1.15 | 1.19 | 1.23 | 1.19 | 3.32 | ppb |
| Molybdenum | 96-1 | 1.38 | 1.32 | 1.35 | 1.35 | 2.10 | ppb |
| Molybdenum | 97-1 | 1.16 | 1.15 | 1.23 | 1.18 | 4.00 | ppb |
| Molybdenum | 98-1 | 1.15 | 1.15 | 1.17 | 1.16 | 0.96 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 72.56 | 72.29 | 72.03 | 72.29 | 0.37 | ppb |
| Phosphorus | 31-2 | 563.83 | 605.29 | 620.64 | 596.59 | 4.93 | ppb |
| Potassium | 39-2 | 549.42 | 547.10 | 554.89 | 550.47 | 0.73 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 1.25 | 0.73 | 0.32 | 0.77 | 60.46 | ppb |
| Selenium | 77-2 | 19.29 | 28.01 | 25.07 | 24.13 | 18.40 | ppb |
| Selenium | 78-2 | 6.28 | 5.20 | 3.85 | 5.11 | 23.81 | ppb |
| Silicon | 28-1 | 5979.77 | 5852.21 | 5917.82 | 5916.60 | 1.08 | ppb |
| Silver | 107-1 | 0.33 | 0.35 | 0.35 | 0.34 | 3.22 | ppb |
| Silver | 109-1 | 0.34 | 0.35 | 0.35 | 0.34 | 0.61 | ppb |
| Sodium | 23-2 | 103.98 | 106.31 | 107.36 | 105.88 | 1.63 | ppb |
| Strontium | 86-1 | 50.12 | 50.18 | 51.43 | 50.58 | 1.46 | ppb |
| Strontium | 88-1 | 52.28 | 52.43 | 52.29 | 52.34 | 0.16 | ppb |
| Sulfur | 34-1 | -2658.48 | -2919.63 | -3007.40 | -2861.84 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.19 | 0.19 | 0.20 | 0.20 | 1.09 | ppb |
| Thallium | 205-1 | 0.19 | 0.20 | 0.22 | 0.20 | 7.82 | ppb |
| Tin | 118-1 | 0.29 | 0.27 | 0.27 | 0.27 | 3.96 | ppb |
| Titanium | 47-1 | 21.12 | 21.16 | 21.12 | 21.13 | 0.11 | ppb |
| Uranium | 238-1 | 0.44 | 0.45 | 0.44 | 0.44 | 1.38 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 61.47 | 61.23 | 61.22 | 61.30 | 0.23 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 127.84 | 128.28 | 128.61 | 128.24 | 0.30 | ppb |
| Zirconium | 90-1 | 0.84 | 0.87 | 0.88 | 0.86 | 1.95 | ppb |
| Zirconium | 91-1 | 0.92 | 0.92 | 0.90 | 0.91 | 0.94 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4088.29 | 4056.27 | 4047.43 | 4064.00 | 0.53 | ppb |
| Antimony | 121-1 | 0.23 | 0.25 | 0.23 | 0.24 | 4.63 | ppb |
| Arsenic | 75-2 | 10.75 | 11.13 | 10.77 | 10.88 | 1.98 | ppb |
| Barium | 135-1 | 43.99 | 46.26 | 46.07 | 45.44 | 2.78 | ppb |
| Barium | 137-1 | 44.57 | 46.84 | 45.93 | 45.78 | 2.50 | ppb |
| Beryllium | 9-1 | 0.21 | 0.21 | 0.20 | 0.21 | 0.58 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.14 | 0.12 | 0.12 | 0.13 | 11.17 | ppb |
| Cadmium | 106-1 | -2.73 | -1.89 | -1.50 | -2.04 | | ppb |
| Cadmium | 111-1 | -0.18 | -0.11 | -0.08 | -0.12 | | ppb |
| Calcium | 43-1 | 1059.20 | 1092.68 | 1077.76 | 1076.55 | 1.56 | ppb |
| Calcium | 44-1 | 1048.35 | 1071.59 | 1065.31 | 1061.75 | 1.13 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 10.39 | 10.31 | 10.38 | 10.36 | 0.42 | ppb |
| Cobalt | 59-2 | 5.68 | 5.63 | 5.59 | 5.64 | 0.79 | ppb |
| Copper | 63-2 | 19.24 | 19.25 | 19.32 | 19.27 | 0.21 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 11981.51 | 11926.03 | 12125.16 | 12010.90 | 0.86 | ppb |
| Iron | 56-2 | 11839.08 | 11803.53 | 11976.29 | 11872.97 | 0.77 | ppb |
| Iron | 57-2 | 11519.84 | 11505.01 | 11570.92 | 11531.92 | 0.30 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4.86 | 5.07 | 4.93 | 4.95 | 2.18 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4.59 | 4.88 | 4.71 | 4.73 | 3.05 | ppb |
| Lead | 208-1 | 4.66 | 4.90 | 4.75 | 4.77 | 2.55 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 2038.04 | 2053.97 | 2044.99 | 2045.67 | 0.39 | ppb |
| Manganese | 55-2 | 96.08 | 95.62 | 96.14 | 95.95 | 0.30 | ppb |
| Molybdenum | 94-1 | 0.54 | 0.57 | 0.52 | 0.54 | 4.73 | ppb |
| Molybdenum | 95-1 | 0.24 | 0.27 | 0.26 | 0.25 | 5.72 | ppb |
| Molybdenum | 96-1 | 0.26 | 0.31 | 0.32 | 0.30 | 10.04 | ppb |
| Molybdenum | 97-1 | 0.23 | 0.27 | 0.27 | 0.25 | 9.88 | ppb |
| Molybdenum | 98-1 | 0.25 | 0.25 | 0.26 | 0.25 | 3.12 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 14.36 | 14.41 | 14.84 | 14.54 | 1.83 | ppb |
| Phosphorus | 31-2 | 118.76 | 121.12 | 78.59 | 106.15 | 22.52 | ppb |
| Potassium | 39-2 | 112.53 | 114.39 | 113.05 | 113.33 | 0.85 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | -0.08 | 0.03 | -0.17 | -0.07 | | ppb |
| Selenium | 77-2 | 6.01 | 4.01 | 8.72 | 6.24 | 37.83 | ppb |
| Selenium | 78-2 | 0.74 | -0.03 | 1.33 | 0.68 | 100.87 | ppb |
| Silicon | 28-1 | 1125.10 | 1165.30 | 1132.87 | 1141.09 | 1.87 | ppb |
| Silver | 107-1 | 0.07 | 0.08 | 0.07 | 0.08 | 3.72 | ppb |
| Silver | 109-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.91 | ppb |
| Sodium | 23-2 | 34.86 | 33.66 | 33.41 | 33.98 | 2.29 | ppb |
| Strontium | 86-1 | 10.03 | 10.46 | 10.13 | 10.21 | 2.22 | ppb |
| Strontium | 88-1 | 10.02 | 10.44 | 10.13 | 10.20 | 2.10 | ppb |
| Sulfur | 34-1 | -3094.55 | -3014.84 | -3060.19 | -3056.53 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.06 | 0.06 | 0.06 | 0.06 | 2.83 | ppb |
| Thallium | 205-1 | 0.06 | 0.06 | 0.06 | 0.06 | 3.68 | ppb |
| Tin | 118-1 | 0.05 | 0.04 | 0.03 | 0.04 | 22.72 | ppb |
| Titanium | 47-1 | 4.30 | 4.37 | 4.36 | 4.34 | 0.86 | ppb |
| Uranium | 238-1 | 0.09 | 0.09 | 0.08 | 0.09 | 3.06 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 12.45 | 12.30 | 12.40 | 12.38 | 0.60 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 26.25 | 26.15 | 25.94 | 26.11 | 0.59 | ppb |
| Zirconium | 90-1 | 0.17 | 0.18 | 0.18 | 0.18 | 2.42 | ppb |
| Zirconium | 91-1 | 0.17 | 0.19 | 0.18 | 0.18 | 6.15 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20696.93 | 21067.87 | 21336.20 | 21033.67 | 1.53 | ppb |
| Antimony | 121-1 | 21.03 | 21.61 | 21.57 | 21.40 | 1.53 | ppb |
| Arsenic | 75-2 | 62.63 | 60.88 | 61.32 | 61.61 | 1.47 | ppb |
| Barium | 135-1 | 633.21 | 652.10 | 652.40 | 645.90 | 1.70 | ppb |
| Barium | 137-1 | 627.10 | 648.20 | 644.05 | 639.78 | 1.75 | ppb |
| Beryllium | 9-1 | 10.59 | 10.90 | 10.75 | 10.75 | 1.42 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 8.88 | 9.76 | 9.73 | 9.46 | 5.25 | ppb |
| Cadmium | 106-1 | 6.63 | 5.83 | 6.73 | 6.40 | 7.71 | ppb |
| Cadmium | 111-1 | 9.81 | 9.77 | 10.00 | 9.86 | 1.29 | ppb |
| Calcium | 43-1 | 6077.06 | 6271.07 | 6324.04 | 6224.06 | 2.09 | ppb |
| Calcium | 44-1 | 5839.38 | 6067.70 | 6076.28 | 5994.45 | 2.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 88.31 | 88.83 | 88.88 | 88.67 | 0.35 | ppb |
| Cobalt | 59-2 | 127.50 | 126.49 | 128.48 | 127.49 | 0.78 | ppb |
| Copper | 63-2 | 144.65 | 145.02 | 145.12 | 144.93 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 57808.76 | 57369.20 | 58191.12 | 57789.69 | 0.71 | ppb |
| Iron | 56-2 | 58352.58 | 58011.92 | 58533.84 | 58299.45 | 0.45 | ppb |
| Iron | 57-2 | 60308.26 | 58585.36 | 59269.14 | 59387.59 | 1.46 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 27.85 | 28.54 | 28.63 | 28.34 | 1.50 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26.65 | 27.08 | 27.27 | 27.00 | 1.17 | ppb |
| Lead | 208-1 | 26.97 | 27.63 | 27.76 | 27.45 | 1.54 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 10292.09 | 10271.42 | 10247.60 | 10270.37 | 0.22 | ppb |
| Manganese | 55-2 | 563.76 | 568.32 | 572.21 | 568.10 | 0.74 | ppb |
| Molybdenum | 94-1 | 87.11 | 91.72 | 91.99 | 90.27 | 3.04 | ppb |
| Molybdenum | 95-1 | 103.48 | 107.72 | 109.61 | 106.94 | 2.93 | ppb |
| Molybdenum | 96-1 | 100.57 | 105.73 | 105.08 | 103.79 | 2.70 | ppb |
| Molybdenum | 97-1 | 103.99 | 109.84 | 108.72 | 107.51 | 2.89 | ppb |
| Molybdenum | 98-1 | 108.53 | 111.81 | 113.01 | 111.12 | 2.09 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 170.47 | 170.81 | 172.37 | 171.22 | 0.59 | ppb |
| Phosphorus | 31-2 | 628.93 | 608.67 | 611.49 | 616.36 | 1.78 | ppb |
| Potassium | 39-2 | 557.31 | 562.12 | 573.02 | 564.15 | 1.43 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 3.85 | 3.92 | 4.29 | 4.02 | 5.85 | ppb |
| Selenium | 77-2 | 29.37 | 29.05 | 20.25 | 26.22 | 19.73 | ppb |
| Selenium | 78-2 | 8.85 | 8.18 | 7.72 | 8.25 | 6.88 | ppb |
| Silicon | 28-1 | 5768.00 | 6168.46 | 6067.63 | 6001.36 | 3.47 | ppb |
| Silver | 107-1 | 9.80 | 10.24 | 10.21 | 10.08 | 2.42 | ppb |
| Silver | 109-1 | 9.92 | 10.29 | 10.30 | 10.17 | 2.17 | ppb |
| Sodium | 23-2 | 100.90 | 105.48 | 106.94 | 104.44 | 3.02 | ppb |
| Strontium | 86-1 | 1950.63 | 1992.35 | 1968.83 | 1970.60 | 1.06 | ppb |
| Strontium | 88-1 | 1945.37 | 1991.38 | 1988.71 | 1975.15 | 1.31 | ppb |
| Sulfur | 34-1 | -3394.52 | -3371.81 | -3390.67 | -3385.67 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 9.35 | 9.63 | 9.74 | 9.57 | 2.06 | ppb |
| Thallium | 205-1 | 9.55 | 9.66 | 9.69 | 9.63 | 0.76 | ppb |
| Tin | 118-1 | 0.43 | 0.25 | 0.25 | 0.31 | 33.92 | ppb |
| Titanium | 47-1 | 19.95 | 20.62 | 20.89 | 20.48 | 2.35 | ppb |
| Uranium | 238-1 | 0.44 | 0.45 | 0.45 | 0.44 | 1.25 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 157.54 | 156.39 | 158.93 | 157.62 | 0.81 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 227.00 | 230.02 | 226.95 | 227.99 | 0.77 | ppb |
| Zirconium | 90-1 | 0.81 | 0.85 | 0.87 | 0.84 | 3.80 | ppb |
| Zirconium | 91-1 | 0.84 | 0.87 | 0.88 | 0.86 | 2.47 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 26.59 | 26.12 | 27.38 | 26.70 | 2.39 | ppb |
| Antimony | 121-1 | 0.01 | 0.00 | 0.00 | 0.00 | 37.02 | ppb |
| Arsenic | 75-2 | -0.02 | 0.00 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | 0.09 | 0.07 | 0.07 | 0.08 | 13.21 | ppb |
| Barium | 137-1 | 0.06 | 0.04 | 0.05 | 0.05 | 19.91 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.01 | 0.01 | 14.37 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.01 | 0.02 | 0.01 | 250.42 | ppb |
| Cadmium | 106-1 | -1.86 | -2.07 | -1.73 | -1.89 | | ppb |
| Cadmium | 111-1 | -0.14 | -0.16 | -0.13 | -0.14 | | ppb |
| Calcium | 43-1 | -3.05 | -3.57 | -3.33 | -3.32 | | ppb |
| Calcium | 44-1 | -1.04 | -0.55 | -2.13 | -1.24 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.15 | -0.11 | -0.10 | -0.12 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 13.72 | ppb |
| Copper | 63-2 | 0.29 | 0.31 | 0.33 | 0.31 | 7.14 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 3.69 | 3.64 | 2.85 | 3.39 | 13.79 | ppb |
| Iron | 56-2 | 4.02 | 3.80 | 2.97 | 3.60 | 15.44 | ppb |
| Iron | 57-2 | 3.90 | 2.91 | 3.62 | 3.48 | 14.60 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.08 | 0.07 | 0.08 | 11.77 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.08 | 0.06 | 0.07 | 17.37 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.07 | 0.08 | 12.15 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | -9.87 | -10.18 | -10.10 | -10.05 | | ppb |
| Manganese | 55-2 | 0.05 | 0.03 | 0.03 | 0.04 | 30.59 | ppb |
| Molybdenum | 94-1 | 0.01 | 0.02 | 0.02 | 0.02 | 21.25 | ppb |
| Molybdenum | 95-1 | 0.02 | 0.02 | 0.00 | 0.02 | 62.88 | ppb |
| Molybdenum | 96-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.52 | ppb |
| Molybdenum | 97-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.23 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.01 | 0.02 | 0.02 | 23.12 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | 0.09 | 0.07 | 0.06 | 85.08 | ppb |
| Phosphorus | 31-2 | -23.04 | -19.27 | -19.36 | -20.55 | | ppb |
| Potassium | 39-2 | -0.40 | 1.72 | 3.90 | 1.74 | 123.63 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | -0.29 | -0.47 | 0.10 | -0.22 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.66 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.62 | -0.42 | 1.11 | 0.03 | 3765.59 | ppb |
| Silicon | 28-1 | 0.48 | 1.88 | 1.06 | 1.14 | 61.75 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 12.15 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.01 | 0.02 | 12.00 | ppb |
| Sodium | 23-2 | 22.19 | 21.84 | 22.03 | 22.02 | 0.81 | ppb |
| Strontium | 86-1 | 0.17 | 0.17 | 0.14 | 0.16 | 12.30 | ppb |
| Strontium | 88-1 | 0.17 | 0.17 | 0.12 | 0.15 | 17.07 | ppb |
| Sulfur | 34-1 | -2979.77 | -2791.66 | -2897.63 | -2889.69 | | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.02 | 0.03 | 18.37 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.33 | ppb |
| Tin | 118-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Titanium | 47-1 | 0.03 | 0.00 | 0.02 | 0.02 | 74.46 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.02 | 0.01 | 16.83 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.02 | -0.02 | 0.01 | 0.00 | 2177.62 | ppb |
| Zirconium | 90-1 | 0.00 | 0.01 | 0.00 | 0.00 | 64.16 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.01 | 0.00 | 148.46 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 43.47 | 40.11 | 41.72 | 41.77 | 4.03 | ppb |
| Antimony | 121-1 | 4.22 | 4.33 | 4.23 | 4.26 | 1.38 | ppb |
| Arsenic | 75-2 | 2.26 | 2.17 | 1.86 | 2.10 | 9.85 | ppb |
| Barium | 135-1 | 20.58 | 20.92 | 20.72 | 20.74 | 0.82 | ppb |
| Barium | 137-1 | 20.91 | 21.01 | 20.64 | 20.85 | 0.94 | ppb |
| Beryllium | 9-1 | 2.21 | 2.27 | 2.23 | 2.23 | 1.46 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.97 | 2.21 | 2.36 | 2.18 | 9.08 | ppb |
| Cadmium | 106-1 | -0.01 | -0.11 | 0.24 | 0.04 | 452.32 | ppb |
| Cadmium | 111-1 | 2.02 | 2.05 | 1.99 | 2.02 | 1.51 | ppb |
| Calcium | 43-1 | 986.49 | 1015.42 | 1019.26 | 1007.06 | 1.78 | ppb |
| Calcium | 44-1 | 975.74 | 1008.37 | 1007.26 | 997.12 | 1.86 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4.05 | 3.98 | 4.11 | 4.05 | 1.53 | ppb |
| Cobalt | 59-2 | 2.24 | 2.25 | 2.19 | 2.22 | 1.44 | ppb |
| Copper | 63-2 | 5.15 | 5.09 | 5.06 | 5.10 | 0.89 | ppb |
| Dysprosium | 156-1 | | | | | | 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 | | | | 101 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 431.06 | 429.70 | 422.70 | 427.82 | 1.05 | ppb |
| Iron | 56-2 | 430.76 | 427.50 | 423.71 | 427.32 | 0.83 | ppb |
| Iron | 57-2 | 425.38 | 432.03 | 426.86 | 428.09 | 0.82 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.98 | 2.15 | 2.05 | 2.06 | 4.06 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.07 | 2.13 | 2.05 | 2.08 | 2.00 | ppb |
| Lead | 208-1 | 2.01 | 2.11 | 2.05 | 2.06 | 2.65 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 975.93 | 995.80 | 977.62 | 983.12 | 1.12 | ppb |
| Manganese | 55-2 | 2.13 | 2.22 | 2.13 | 2.16 | 2.39 | ppb |
| Molybdenum | 94-1 | 11.86 | 12.51 | 12.52 | 12.30 | 3.08 | ppb |
| Molybdenum | 95-1 | 9.98 | 10.23 | 10.36 | 10.19 | 1.89 | ppb |
| Molybdenum | 96-1 | 10.12 | 10.43 | 10.44 | 10.33 | 1.73 | ppb |
| Molybdenum | 97-1 | 10.15 | 10.38 | 10.56 | 10.36 | 1.96 | ppb |
| Molybdenum | 98-1 | 9.81 | 10.26 | 10.28 | 10.11 | 2.63 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.45 | 2.16 | 2.34 | 2.32 | 6.26 | ppb |
| Phosphorus | 31-2 | 42.63 | 35.31 | 14.81 | 30.92 | 46.64 | ppb |
| Potassium | 39-2 | 1012.62 | 1007.92 | 1011.62 | 1010.72 | 0.24 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 10.34 | 10.09 | 10.43 | 10.29 | 1.71 | ppb |
| Selenium | 77-2 | 12.77 | 9.49 | 11.64 | 11.30 | 14.78 | ppb |
| Selenium | 78-2 | 10.52 | 8.24 | 12.32 | 10.36 | 19.71 | ppb |
| Silicon | 28-1 | 20.82 | 21.61 | 20.92 | 21.12 | 2.03 | ppb |
| Silver | 107-1 | 2.10 | 2.12 | 2.11 | 2.11 | 0.40 | ppb |
| Silver | 109-1 | 2.12 | 2.13 | 2.15 | 2.13 | 0.72 | ppb |
| Sodium | 23-2 | 1038.67 | 1040.72 | 1027.23 | 1035.54 | 0.70 | ppb |
| Strontium | 86-1 | 1.99 | 2.08 | 2.17 | 2.08 | 4.36 | ppb |
| Strontium | 88-1 | 2.02 | 2.11 | 2.08 | 2.07 | 2.17 | ppb |
| Sulfur | 34-1 | -2439.18 | -2097.95 | -2159.84 | -2232.32 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 1.95 | 2.11 | 2.04 | 2.04 | 3.84 | ppb |
| Thallium | 205-1 | 2.01 | 2.12 | 2.04 | 2.06 | 2.77 | ppb |
| Tin | 118-1 | 10.65 | 10.78 | 10.67 | 10.70 | 0.63 | ppb |
| Titanium | 47-1 | 2.47 | 2.58 | 2.53 | 2.53 | 2.09 | ppb |
| Uranium | 238-1 | 1.85 | 1.94 | 1.88 | 1.89 | 2.56 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10.65 | 10.84 | 10.69 | 10.73 | 0.93 | 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 | 10.89 | 10.82 | 10.97 | 10.90 | 0.69 | ppb |
| Zirconium | 90-1 | 1.98 | 2.03 | 2.07 | 2.03 | 2.08 | ppb |
| Zirconium | 91-1 | 2.00 | 1.96 | 2.05 | 2.01 | 2.07 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8.28 | 8.63 | 8.89 | 8.60 | 3.54 | ppb |
| Antimony | 121-1 | 0.05 | 0.05 | 0.05 | 0.05 | 5.13 | ppb |
| Arsenic | 75-2 | 0.52 | 0.51 | 0.34 | 0.46 | 21.44 | ppb |
| Barium | 135-1 | 18.75 | 19.15 | 19.39 | 19.10 | 1.70 | ppb |
| Barium | 137-1 | 18.83 | 19.17 | 19.43 | 19.14 | 1.58 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.01 | 0.01 | 45.77 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.06 | 0.02 | 0.07 | 0.05 | 55.72 | ppb |
| Cadmium | 106-1 | -1.34 | -0.67 | -0.42 | -0.81 | | ppb |
| Cadmium | 111-1 | -0.10 | -0.05 | -0.04 | -0.06 | | ppb |
| Calcium | 43-1 | 354348.43 | 361669.50 | 362481.30 | 359499.74 | 1.25 | ppb |
| Calcium | 44-1 | 353147.97 | 355959.52 | 354341.87 | 354483.12 | 0.40 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.03 | 0.06 | 0.03 | 0.04 | 46.47 | ppb |
| Cobalt | 59-2 | 0.02 | 0.03 | 0.02 | 0.03 | 10.75 | ppb |
| Copper | 63-2 | 0.03 | 0.09 | 0.02 | 0.05 | 84.45 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 812.71 | 819.89 | 809.40 | 814.00 | 0.66 | ppb |
| Iron | 56-2 | 848.19 | 853.95 | 859.68 | 853.94 | 0.67 | ppb |
| Iron | 57-2 | 816.92 | 837.39 | 821.21 | 825.17 | 1.31 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.08 | 0.09 | 6.82 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.09 | 0.08 | 0.09 | 11.77 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.08 | 0.09 | 9.00 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 115043.09 | 114531.06 | 115602.28 | 115058.81 | 0.47 | ppb |
| Manganese | 55-2 | 25.97 | 26.05 | 26.38 | 26.14 | 0.83 | ppb |
| Molybdenum | 94-1 | 0.46 | 0.42 | 0.42 | 0.43 | 5.94 | ppb |
| Molybdenum | 95-1 | 0.36 | 0.33 | 0.38 | 0.36 | 6.11 | ppb |
| Molybdenum | 96-1 | 0.36 | 0.36 | 0.36 | 0.36 | 0.50 | ppb |
| Molybdenum | 97-1 | 0.35 | 0.34 | 0.36 | 0.35 | 2.41 | ppb |
| Molybdenum | 98-1 | 0.34 | 0.33 | 0.34 | 0.34 | 1.74 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.04 | -0.01 | 0.02 | 0.02 | 154.66 | ppb |
| Phosphorus | 31-2 | -6.76 | -23.00 | -17.60 | -15.79 | | ppb |
| Potassium | 39-2 | 3521.81 | 3508.79 | 3474.41 | 3501.67 | 0.70 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 0.04 | 0.24 | 0.38 | 0.22 | 76.22 | ppb |
| Selenium | 77-2 | 0.73 | 0.00 | 0.74 | 0.49 | 86.61 | ppb |
| Selenium | 78-2 | -0.58 | -0.38 | -0.36 | -0.44 | | ppb |
| Silicon | 28-1 | 6119.83 | 6154.77 | 6192.01 | 6155.54 | 0.59 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.02 | 0.03 | 16.24 | ppb |
| Silver | 109-1 | 0.03 | 0.02 | 0.02 | 0.02 | 19.36 | ppb |
| Sodium | 23-2 | 31292.79 | 30865.94 | 31448.92 | 31202.55 | 0.97 | ppb |
| Strontium | 86-1 | 14544.33 | 14150.17 | 14563.91 | 14419.47 | 1.62 | ppb |
| Strontium | 88-1 | 14276.86 | 14191.15 | 14523.86 | 14330.62 | 1.21 | ppb |
| Sulfur | 34-1 | 409893.45 | 414056.37 | 416436.81 | 413462.21 | 0.80 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.74 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 11.19 | ppb |
| Tin | 118-1 | 0.81 | 0.80 | 0.87 | 0.83 | 4.21 | ppb |
| Titanium | 47-1 | 0.52 | 0.58 | 0.60 | 0.56 | 7.20 | ppb |
| Uranium | 238-1 | 0.22 | 0.22 | 0.22 | 0.22 | 1.92 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.11 | 0.11 | 0.12 | 0.11 | 3.66 | 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 | 0.68 | 0.56 | 0.66 | 0.63 | 10.34 | ppb |
| Zirconium | 90-1 | 0.09 | 0.08 | 0.08 | 0.09 | 7.98 | ppb |
| Zirconium | 91-1 | 0.11 | 0.09 | 0.08 | 0.09 | 14.88 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6.09 | 5.31 | 5.64 | 5.68 | 6.86 | ppb |
| Antimony | 121-1 | 0.00 | 0.01 | 0.00 | 0.00 | 31.50 | ppb |
| Arsenic | 75-2 | 0.06 | 0.04 | 0.02 | 0.04 | 48.27 | ppb |
| Barium | 135-1 | 8.90 | 9.51 | 8.96 | 9.12 | 3.68 | ppb |
| Barium | 137-1 | 9.08 | 9.71 | 9.11 | 9.30 | 3.84 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.17 | ppb |
| Bismuth | 209-1 | | | | 88 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.04 | 0.05 | 0.03 | 91.45 | ppb |
| Cadmium | 106-1 | -0.67 | -0.72 | -0.74 | -0.71 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.05 | -0.06 | -0.05 | | ppb |
| Calcium | 43-1 | 361896.98 | 377576.71 | 344317.25 | 361263.65 | 4.61 | ppb |
| Calcium | 44-1 | 350311.61 | 372677.51 | 338664.11 | 353884.41 | 4.88 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | 0.04 | 0.06 | 0.03 | 93.73 | ppb |
| Cobalt | 59-2 | 0.04 | 0.04 | 0.04 | 0.04 | 1.68 | ppb |
| Copper | 63-2 | 0.35 | 0.37 | 0.38 | 0.37 | 4.79 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 95 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 91 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 28.89 | 24.15 | 25.18 | 26.08 | 9.56 | ppb |
| Iron | 56-2 | 25.66 | 25.91 | 25.68 | 25.75 | 0.53 | ppb |
| Iron | 57-2 | 33.02 | 35.35 | 34.01 | 34.13 | 3.42 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.10 | 0.10 | 0.10 | 4.04 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.09 | 0.08 | 0.09 | 10.04 | ppb |
| Lead | 208-1 | 0.10 | 0.09 | 0.09 | 0.09 | 6.00 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | 119712.85 | 115019.88 | 116297.92 | 117010.22 | 2.07 | ppb |
| Manganese | 55-2 | 8.18 | 8.00 | 8.25 | 8.14 | 1.59 | ppb |
| Molybdenum | 94-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.40 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.31 | ppb |
| Molybdenum | 96-1 | 0.04 | 0.03 | 0.03 | 0.03 | 15.78 | ppb |
| Molybdenum | 97-1 | 0.02 | 0.03 | 0.02 | 0.02 | 20.38 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.03 | 0.02 | 15.10 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.10 | 0.04 | 0.12 | 0.09 | 44.63 | ppb |
| Phosphorus | 31-2 | -13.71 | -12.37 | -16.98 | -14.35 | | ppb |
| Potassium | 39-2 | 4256.97 | 4195.07 | 4204.30 | 4218.78 | 0.79 | ppb |
| Rhodium | 103-1 | | | | 86 | | % |
| Rhodium | 103-2 | | | | 88 | | % |
| Scandium | 45-1 | | | | 93 | | % |
| Scandium | 45-2 | | | | 93 | | % |
| Selenium | 82-1 | 0.13 | 0.39 | 0.62 | 0.38 | 63.81 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.30 | -0.79 | -0.13 | -0.21 | | ppb |
| Silicon | 28-1 | 7218.73 | 7731.61 | 6977.14 | 7309.16 | 5.27 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.02 | 0.03 | 4.82 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.40 | ppb |
| Sodium | 23-2 | 125117.26 | 121055.88 | 122603.57 | 122925.57 | 1.67 | ppb |
| Strontium | 86-1 | 15475.16 | 16171.01 | 15096.05 | 15580.74 | 3.50 | ppb |
| Strontium | 88-1 | 15075.34 | 15842.73 | 14754.92 | 15224.33 | 3.67 | ppb |
| Sulfur | 34-1 | 364364.01 | 389199.43 | 348676.51 | 367413.32 | 5.56 | ppb |
| Terbium | 159-1 | | | | 94 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 43.68 | ppb |
| Thallium | 205-1 | 0.01 | 0.02 | 0.01 | 0.02 | 18.74 | ppb |
| Tin | 118-1 | 0.42 | 0.49 | 0.43 | 0.45 | 9.18 | ppb |
| Titanium | 47-1 | 0.91 | 1.03 | 0.87 | 0.94 | 8.84 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.18 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.04 | 0.04 | 0.05 | 0.04 | 15.79 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 93 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | 0.79 | 0.93 | 0.79 | 0.84 | 9.52 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.73 | ppb |
| Zirconium | 91-1 | 0.04 | 0.05 | 0.04 | 0.04 | 6.44 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1502.86 | 1485.73 | 1545.38 | 1511.33 | 2.03 | ppb |
| Antimony | 121-1 | 0.30 | 0.29 | 0.29 | 0.30 | 2.30 | ppb |
| Arsenic | 75-2 | 0.25 | 0.19 | 0.28 | 0.24 | 18.90 | ppb |
| Barium | 135-1 | 15.06 | 15.44 | 15.26 | 15.25 | 1.26 | ppb |
| Barium | 137-1 | 15.12 | 15.40 | 15.70 | 15.41 | 1.89 | ppb |
| Beryllium | 9-1 | 0.03 | 0.02 | 0.03 | 0.03 | 15.07 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.07 | 0.01 | 0.03 | 103.28 | ppb |
| Cadmium | 106-1 | -0.80 | -1.53 | -0.33 | -0.89 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.11 | -0.01 | -0.06 | | ppb |
| Calcium | 43-1 | 266270.10 | 262634.92 | 273288.49 | 267397.84 | 2.03 | ppb |
| Calcium | 44-1 | 258438.43 | 256145.23 | 262185.74 | 258923.13 | 1.18 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.10 | 0.11 | 0.09 | 0.10 | 10.82 | ppb |
| Cobalt | 59-2 | 0.06 | 0.06 | 0.06 | 0.06 | 7.07 | ppb |
| Copper | 63-2 | 2.11 | 2.10 | 2.29 | 2.17 | 4.96 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 647.65 | 654.10 | 680.62 | 660.79 | 2.64 | ppb |
| Iron | 56-2 | 690.47 | 691.61 | 701.49 | 694.52 | 0.87 | ppb |
| Iron | 57-2 | 661.85 | 657.67 | 693.84 | 671.12 | 2.95 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.49 | 0.50 | 0.47 | 0.49 | 3.50 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.47 | 0.48 | 0.52 | 0.49 | 5.61 | ppb |
| Lead | 208-1 | 0.48 | 0.48 | 0.49 | 0.48 | 1.83 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 75126.59 | 73720.29 | 77514.81 | 75453.90 | 2.54 | ppb |
| Manganese | 55-2 | 58.65 | 57.03 | 59.36 | 58.35 | 2.04 | ppb |
| Molybdenum | 94-1 | 0.96 | 0.92 | 0.97 | 0.95 | 2.62 | ppb |
| Molybdenum | 95-1 | 0.97 | 1.02 | 1.02 | 1.00 | 2.53 | ppb |
| Molybdenum | 96-1 | 0.98 | 1.02 | 1.01 | 1.00 | 2.14 | ppb |
| Molybdenum | 97-1 | 0.97 | 1.01 | 1.06 | 1.02 | 4.16 | ppb |
| Molybdenum | 98-1 | 1.01 | 1.01 | 1.01 | 1.01 | 0.13 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.25 | 0.24 | 0.34 | 0.28 | 18.65 | ppb |
| Phosphorus | 31-2 | 2.61 | -16.11 | -8.86 | -7.45 | | ppb |
| Potassium | 39-2 | 3771.22 | 3723.84 | 3891.49 | 3795.52 | 2.28 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.23 | 0.20 | 0.59 | 0.34 | 63.02 | ppb |
| Selenium | 77-2 | 0.00 | 2.10 | 0.72 | 0.94 | 113.63 | ppb |
| Selenium | 78-2 | -0.21 | -0.60 | -0.38 | -0.40 | | ppb |
| Silicon | 28-1 | 6825.66 | 6873.63 | 6908.89 | 6869.39 | 0.61 | ppb |
| Silver | 107-1 | 0.08 | 0.07 | 0.08 | 0.07 | 2.77 | ppb |
| Silver | 109-1 | 0.06 | 0.07 | 0.06 | 0.06 | 3.09 | ppb |
| Sodium | 23-2 | 29264.45 | 29692.39 | 30424.00 | 29793.61 | 1.97 | ppb |
| Strontium | 86-1 | 14645.50 | 14917.89 | 15262.72 | 14942.04 | 2.07 | ppb |
| Strontium | 88-1 | 14879.97 | 14926.24 | 15284.68 | 15030.29 | 1.47 | ppb |
| Sulfur | 34-1 | 263997.89 | 264463.05 | 266054.09 | 264838.34 | 0.41 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.02 | 0.01 | 0.01 | 30.51 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.27 | ppb |
| Tin | 118-1 | 0.60 | 0.64 | 0.66 | 0.64 | 4.53 | ppb |
| Titanium | 47-1 | 0.86 | 0.93 | 0.99 | 0.93 | 6.67 | ppb |
| Uranium | 238-1 | 0.81 | 0.83 | 0.82 | 0.82 | 1.51 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.22 | 0.21 | 0.21 | 0.21 | 1.98 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 70.56 | 72.12 | 73.66 | 72.11 | 2.15 | ppb |
| Zirconium | 90-1 | 0.06 | 0.07 | 0.07 | 0.07 | 9.03 | ppb |
| Zirconium | 91-1 | 0.06 | 0.06 | 0.09 | 0.07 | 23.81 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.44 | 5.06 | 3.81 | 4.44 | 14.17 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.43 | ppb |
| Arsenic | 75-2 | 0.20 | 0.26 | 0.28 | 0.25 | 16.97 | ppb |
| Barium | 135-1 | 16.21 | 15.97 | 16.09 | 16.09 | 0.77 | ppb |
| Barium | 137-1 | 16.00 | 15.93 | 16.05 | 16.00 | 0.38 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.03 | 0.02 | 31.03 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.05 | 0.04 | 0.03 | 40.15 | ppb |
| Cadmium | 106-1 | -1.14 | -0.56 | -1.09 | -0.93 | | ppb |
| Cadmium | 111-1 | -0.09 | -0.05 | -0.08 | -0.07 | | ppb |
| Calcium | 43-1 | 277067.11 | 263940.95 | 271213.49 | 270740.52 | 2.43 | ppb |
| Calcium | 44-1 | 275597.81 | 255614.61 | 265286.28 | 265499.56 | 3.76 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.32 | 0.28 | 0.30 | 0.30 | 7.22 | ppb |
| Cobalt | 59-2 | 0.10 | 0.09 | 0.09 | 0.10 | 6.92 | ppb |
| Copper | 63-2 | 0.23 | 0.30 | 0.28 | 0.27 | 12.59 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 586.17 | 583.64 | 572.85 | 580.89 | 1.22 | ppb |
| Iron | 56-2 | 613.49 | 607.90 | 584.05 | 601.81 | 2.60 | ppb |
| Iron | 57-2 | 587.66 | 577.25 | 575.87 | 580.26 | 1.11 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.11 | 0.10 | 0.11 | 7.37 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.11 | 0.12 | 0.11 | 3.25 | ppb |
| Lead | 208-1 | 0.11 | 0.11 | 0.11 | 0.11 | 2.15 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 76721.58 | 75916.61 | 74138.58 | 75592.26 | 1.75 | ppb |
| Manganese | 55-2 | 64.29 | 62.83 | 62.10 | 63.07 | 1.77 | ppb |
| Molybdenum | 94-1 | 0.90 | 0.85 | 0.88 | 0.88 | 2.72 | ppb |
| Molybdenum | 95-1 | 1.00 | 1.03 | 1.05 | 1.03 | 2.61 | ppb |
| Molybdenum | 96-1 | 1.01 | 0.97 | 1.03 | 1.00 | 3.18 | ppb |
| Molybdenum | 97-1 | 1.00 | 1.04 | 1.03 | 1.02 | 2.30 | ppb |
| Molybdenum | 98-1 | 1.03 | 1.00 | 1.03 | 1.02 | 1.40 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.45 | 0.33 | 0.37 | 0.39 | 15.47 | ppb |
| Phosphorus | 31-2 | -20.20 | -19.73 | -15.13 | -18.36 | | ppb |
| Potassium | 39-2 | 3863.17 | 3764.88 | 3768.95 | 3799.00 | 1.46 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.16 | -0.03 | 0.05 | 0.06 | 154.71 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.60 | -0.39 | -0.59 | -0.53 | | ppb |
| Silicon | 28-1 | 7192.10 | 6806.35 | 6904.78 | 6967.74 | 2.88 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.34 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.64 | ppb |
| Sodium | 23-2 | 30955.18 | 30058.24 | 29735.89 | 30249.77 | 2.09 | ppb |
| Strontium | 86-1 | 15066.90 | 14756.97 | 15011.45 | 14945.11 | 1.11 | ppb |
| Strontium | 88-1 | 14897.39 | 14604.18 | 14815.48 | 14772.35 | 1.02 | ppb |
| Sulfur | 34-1 | 272351.63 | 263176.13 | 268027.09 | 267851.62 | 1.71 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.88 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.44 | ppb |
| Tin | 118-1 | 0.53 | 0.51 | 0.51 | 0.52 | 2.13 | ppb |
| Titanium | 47-1 | 0.57 | 0.55 | 0.61 | 0.58 | 4.71 | ppb |
| Uranium | 238-1 | 0.84 | 0.83 | 0.86 | 0.84 | 1.64 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.04 | 0.03 | 20.53 | 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 | 0.68 | 0.69 | 0.60 | 0.66 | 7.79 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 1.53 | ppb |
| Zirconium | 91-1 | 0.03 | 0.04 | 0.03 | 0.03 | 9.02 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11.80 | 11.16 | 12.76 | 11.91 | 6.75 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.16 | ppb |
| Arsenic | 75-2 | 0.39 | 0.28 | 0.37 | 0.35 | 17.36 | ppb |
| Barium | 135-1 | 44.78 | 46.11 | 48.30 | 46.40 | 3.83 | ppb |
| Barium | 137-1 | 44.87 | 46.65 | 48.29 | 46.60 | 3.68 | ppb |
| Beryllium | 9-1 | 0.02 | 0.03 | 0.03 | 0.03 | 13.31 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.20 | 0.15 | 0.16 | 0.17 | 14.76 | ppb |
| Cadmium | 106-1 | -0.44 | -0.29 | -1.04 | -0.59 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.01 | -0.07 | -0.04 | | ppb |
| Calcium | 43-1 | 450766.88 | 465166.41 | 492798.20 | 469577.16 | 4.55 | ppb |
| Calcium | 44-1 | 443562.27 | 452956.50 | 479849.94 | 458789.57 | 4.11 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.28 | 0.22 | 0.28 | 0.26 | 13.08 | ppb |
| Cobalt | 59-2 | 0.95 | 0.96 | 0.98 | 0.97 | 1.47 | ppb |
| Copper | 63-2 | 0.54 | 0.53 | 0.67 | 0.58 | 13.07 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 835.12 | 839.68 | 862.67 | 845.82 | 1.75 | ppb |
| Iron | 56-2 | 884.29 | 886.19 | 881.43 | 883.97 | 0.27 | ppb |
| Iron | 57-2 | 851.86 | 846.12 | 884.04 | 860.68 | 2.37 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.14 | 0.15 | 0.15 | 0.14 | 5.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.15 | 0.16 | 0.14 | 15.55 | ppb |
| Lead | 208-1 | 0.13 | 0.14 | 0.16 | 0.15 | 8.64 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 98721.32 | 101006.75 | 100482.44 | 100070.17 | 1.20 | ppb |
| Manganese | 55-2 | 26.04 | 26.39 | 26.78 | 26.40 | 1.39 | ppb |
| Molybdenum | 94-1 | 9.91 | 10.27 | 11.05 | 10.41 | 5.59 | ppb |
| Molybdenum | 95-1 | 11.73 | 12.01 | 12.71 | 12.15 | 4.15 | ppb |
| Molybdenum | 96-1 | 11.57 | 11.64 | 12.54 | 11.91 | 4.54 | ppb |
| Molybdenum | 97-1 | 12.06 | 12.18 | 12.77 | 12.34 | 3.11 | ppb |
| Molybdenum | 98-1 | 11.66 | 11.75 | 12.84 | 12.08 | 5.45 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 4.00 | 4.14 | 4.21 | 4.12 | 2.64 | ppb |
| Phosphorus | 31-2 | -14.32 | -18.66 | -18.03 | -17.00 | | ppb |
| Potassium | 39-2 | 5679.13 | 5761.26 | 5874.36 | 5771.58 | 1.70 | ppb |
| Rhodium | 103-1 | | | | 89 | | % |
| Rhodium | 103-2 | | | | 92 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.57 | 0.68 | 0.34 | 0.53 | 32.43 | ppb |
| Selenium | 77-2 | 0.00 | 0.69 | 1.42 | 0.71 | 100.87 | ppb |
| Selenium | 78-2 | -0.80 | -0.40 | -0.18 | -0.46 | | ppb |
| Silicon | 28-1 | 7041.21 | 7292.70 | 7564.74 | 7299.55 | 3.59 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.04 | 0.03 | 16.95 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.03 | 0.02 | 30.73 | ppb |
| Sodium | 23-2 | 177926.40 | 180299.00 | 182348.77 | 180191.39 | 1.23 | ppb |
| Strontium | 86-1 | 14327.91 | 14570.42 | 15496.92 | 14798.42 | 4.17 | ppb |
| Strontium | 88-1 | 14164.35 | 14460.74 | 15440.42 | 14688.50 | 4.55 | ppb |
| Sulfur | 34-1 | 369214.12 | 382100.41 | 400029.21 | 383781.25 | 4.03 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.03 | 0.03 | 11.89 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.22 | ppb |
| Tin | 118-1 | 0.72 | 0.72 | 0.76 | 0.73 | 3.03 | ppb |
| Titanium | 47-1 | 0.69 | 0.70 | 0.75 | 0.71 | 4.21 | ppb |
| Uranium | 238-1 | 0.07 | 0.08 | 0.08 | 0.08 | 5.35 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.25 | 0.22 | 0.23 | 0.23 | 6.82 | 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 | 0.87 | 0.72 | 0.81 | 0.80 | 9.38 | ppb |
| Zirconium | 90-1 | 0.15 | 0.15 | 0.18 | 0.16 | 8.69 | ppb |
| Zirconium | 91-1 | 0.15 | 0.15 | 0.18 | 0.16 | 9.96 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6.00 | 6.49 | 7.86 | 6.78 | 14.18 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.27 | ppb |
| Arsenic | 75-2 | 5.12 | 4.83 | 5.01 | 4.99 | 2.88 | ppb |
| Barium | 135-1 | 51.18 | 49.96 | 51.56 | 50.90 | 1.65 | ppb |
| Barium | 137-1 | 51.35 | 50.48 | 51.00 | 50.94 | 0.86 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.32 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.02 | 0.06 | 0.06 | 77.61 | ppb |
| Cadmium | 106-1 | 0.56 | -0.09 | -0.50 | -0.01 | | ppb |
| Cadmium | 111-1 | 0.04 | 0.00 | -0.03 | 0.01 | 668.06 | ppb |
| Calcium | 43-1 | 397763.00 | 386915.03 | 386606.05 | 390428.03 | 1.63 | ppb |
| Calcium | 44-1 | 386637.58 | 377042.88 | 376548.36 | 380076.28 | 1.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.19 | 1.21 | 1.25 | 1.22 | 2.77 | ppb |
| Cobalt | 59-2 | 0.12 | 0.13 | 0.13 | 0.13 | 2.64 | ppb |
| Copper | 63-2 | 0.27 | 0.26 | 0.33 | 0.29 | 14.22 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 5212.19 | 5341.09 | 5435.67 | 5329.65 | 2.10 | ppb |
| Iron | 56-2 | 5411.67 | 5472.50 | 5705.18 | 5529.78 | 2.80 | ppb |
| Iron | 57-2 | 5266.19 | 5326.93 | 5466.32 | 5353.15 | 1.92 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.17 | 0.16 | 0.17 | 0.16 | 4.63 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.17 | 0.20 | 0.15 | 0.18 | 12.75 | ppb |
| Lead | 208-1 | 0.18 | 0.18 | 0.17 | 0.17 | 3.31 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 117567.13 | 118859.53 | 120761.93 | 119062.86 | 1.35 | ppb |
| Manganese | 55-2 | 481.31 | 486.02 | 502.32 | 489.88 | 2.25 | ppb |
| Molybdenum | 94-1 | 2.43 | 2.20 | 2.28 | 2.30 | 5.12 | ppb |
| Molybdenum | 95-1 | 2.60 | 2.52 | 2.55 | 2.56 | 1.64 | ppb |
| Molybdenum | 96-1 | 2.48 | 2.42 | 2.52 | 2.47 | 2.06 | ppb |
| Molybdenum | 97-1 | 2.62 | 2.50 | 2.64 | 2.59 | 2.90 | ppb |
| Molybdenum | 98-1 | 2.52 | 2.44 | 2.51 | 2.49 | 1.81 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.69 | 0.68 | 0.74 | 0.70 | 4.17 | ppb |
| Phosphorus | 31-2 | 1.55 | 5.58 | -3.16 | 1.32 | 330.53 | ppb |
| Potassium | 39-2 | 15152.52 | 15189.65 | 15503.57 | 15281.92 | 1.26 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 94 | | % |
| Selenium | 82-1 | 0.28 | 0.74 | 0.29 | 0.44 | 59.91 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.76 | 0.25 | 173.21 | ppb |
| Selenium | 78-2 | -0.80 | -1.01 | -0.56 | -0.79 | | ppb |
| Silicon | 28-1 | 7511.85 | 7372.77 | 7303.30 | 7395.97 | 1.44 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.48 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.85 | ppb |
| Sodium | 23-2 | 87338.45 | 87318.25 | 89129.09 | 87928.59 | 1.18 | ppb |
| Strontium | 86-1 | 11813.96 | 11416.55 | 11707.96 | 11646.16 | 1.77 | ppb |
| Strontium | 88-1 | 11717.32 | 11337.38 | 11561.03 | 11538.58 | 1.65 | ppb |
| Sulfur | 34-1 | 489838.21 | 472084.12 | 478056.36 | 479992.90 | 1.88 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 22.32 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.25 | ppb |
| Tin | 118-1 | 0.47 | 0.49 | 0.48 | 0.48 | 1.97 | ppb |
| Titanium | 47-1 | 0.73 | 0.64 | 0.64 | 0.67 | 7.28 | ppb |
| Uranium | 238-1 | 0.52 | 0.51 | 0.51 | 0.51 | 0.71 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.20 | 0.19 | 0.21 | 0.20 | 5.27 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 94 | | % |
| Zinc | 66-2 | 0.64 | 0.68 | 0.72 | 0.68 | 5.54 | ppb |
| Zirconium | 90-1 | 0.10 | 0.10 | 0.11 | 0.10 | 1.49 | ppb |
| Zirconium | 91-1 | 0.12 | 0.11 | 0.11 | 0.11 | 4.61 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 25.74 | 25.87 | 22.01 | 24.54 | 8.94 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.03 | 0.02 | 13.80 | ppb |
| Arsenic | 75-2 | 0.10 | 0.07 | 0.05 | 0.07 | 39.60 | ppb |
| Barium | 135-1 | 11.00 | 11.17 | 11.39 | 11.19 | 1.74 | ppb |
| Barium | 137-1 | 11.13 | 11.09 | 11.55 | 11.26 | 2.28 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.01 | 0.02 | 27.43 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.04 | 0.13 | 0.06 | 94.77 | ppb |
| Cadmium | 106-1 | -0.05 | 0.22 | 0.11 | 0.09 | 140.57 | ppb |
| Cadmium | 111-1 | 0.00 | 0.02 | 0.01 | 0.01 | 66.55 | ppb |
| Calcium | 43-1 | 368965.00 | 366617.35 | 394815.79 | 376799.38 | 4.15 | ppb |
| Calcium | 44-1 | 369541.63 | 356710.96 | 383130.36 | 369794.31 | 3.57 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.32 | 0.31 | 0.31 | 0.31 | 1.94 | ppb |
| Cobalt | 59-2 | 0.05 | 0.05 | 0.05 | 0.05 | 3.52 | ppb |
| Copper | 63-2 | 0.33 | 0.25 | 0.26 | 0.28 | 14.57 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 94 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 3154.14 | 2926.03 | 2850.21 | 2976.80 | 5.31 | ppb |
| Iron | 56-2 | 3302.21 | 2993.65 | 2977.45 | 3091.10 | 5.92 | ppb |
| Iron | 57-2 | 3170.38 | 2909.18 | 2854.36 | 2977.98 | 5.67 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.11 | 0.11 | 0.11 | 6.61 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.11 | 0.12 | 0.12 | 2.19 | ppb |
| Lead | 208-1 | 0.12 | 0.11 | 0.12 | 0.12 | 4.60 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 115282.40 | 105841.20 | 104549.65 | 108557.75 | 5.40 | ppb |
| Manganese | 55-2 | 93.61 | 83.90 | 84.47 | 87.33 | 6.24 | ppb |
| Molybdenum | 94-1 | 0.94 | 0.95 | 1.00 | 0.96 | 3.30 | ppb |
| Molybdenum | 95-1 | 0.97 | 0.94 | 1.01 | 0.97 | 3.92 | ppb |
| Molybdenum | 96-1 | 0.97 | 0.93 | 0.97 | 0.96 | 2.31 | ppb |
| Molybdenum | 97-1 | 1.01 | 0.95 | 0.99 | 0.98 | 3.08 | ppb |
| Molybdenum | 98-1 | 0.95 | 0.94 | 1.02 | 0.97 | 4.59 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.36 | 0.28 | 0.29 | 0.31 | 14.15 | ppb |
| Phosphorus | 31-2 | 1.05 | -10.10 | -15.97 | -8.34 | | ppb |
| Potassium | 39-2 | 4093.11 | 3762.57 | 3700.71 | 3852.13 | 5.48 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 92 | | % |
| Selenium | 82-1 | 0.37 | 0.26 | 0.67 | 0.43 | 48.76 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.72 | 0.24 | 173.21 | ppb |
| Selenium | 78-2 | -0.32 | -0.17 | 0.05 | -0.15 | | ppb |
| Silicon | 28-1 | 6594.93 | 6679.23 | 6871.63 | 6715.26 | 2.11 | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.02 | 0.02 | 6.04 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.76 | ppb |
| Sodium | 23-2 | 40935.55 | 37393.08 | 36462.56 | 38263.73 | 6.17 | ppb |
| Strontium | 86-1 | 12615.00 | 12417.74 | 13228.07 | 12753.60 | 3.31 | ppb |
| Strontium | 88-1 | 12491.14 | 12283.12 | 13096.15 | 12623.47 | 3.35 | ppb |
| Sulfur | 34-1 | 410944.05 | 408284.71 | 431965.58 | 417064.78 | 3.11 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.83 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.11 | ppb |
| Tin | 118-1 | 0.55 | 0.51 | 0.57 | 0.54 | 5.57 | ppb |
| Titanium | 47-1 | 1.00 | 1.01 | 1.13 | 1.05 | 7.19 | ppb |
| Uranium | 238-1 | 0.35 | 0.34 | 0.35 | 0.35 | 1.84 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.15 | 0.16 | 0.12 | 0.14 | 13.42 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | 0.66 | 0.71 | 0.53 | 0.63 | 14.79 | ppb |
| Zirconium | 90-1 | 0.07 | 0.07 | 0.08 | 0.07 | 6.31 | ppb |
| Zirconium | 91-1 | 0.07 | 0.07 | 0.07 | 0.07 | 5.06 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8.00 | 8.31 | 8.97 | 8.42 | 5.89 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.38 | ppb |
| Arsenic | 75-2 | 0.11 | 0.14 | 0.09 | 0.11 | 20.76 | ppb |
| Barium | 135-1 | 17.43 | 15.26 | 16.42 | 16.37 | 6.63 | ppb |
| Barium | 137-1 | 17.57 | 15.33 | 16.34 | 16.41 | 6.84 | ppb |
| Beryllium | 9-1 | 0.03 | 0.02 | 0.02 | 0.02 | 19.83 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.02 | 0.08 | 0.06 | 51.03 | ppb |
| Cadmium | 106-1 | 0.25 | 0.46 | -0.12 | 0.20 | 149.25 | ppb |
| Cadmium | 111-1 | 0.02 | 0.04 | -0.01 | 0.01 | 159.66 | ppb |
| Calcium | 43-1 | 379305.79 | 333520.32 | 352646.36 | 355157.49 | 6.47 | ppb |
| Calcium | 44-1 | 373086.54 | 330786.37 | 343594.49 | 349155.80 | 6.21 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.67 | 0.70 | 0.68 | 0.68 | 2.74 | ppb |
| Cobalt | 59-2 | 0.05 | 0.06 | 0.05 | 0.05 | 15.27 | ppb |
| Copper | 63-2 | 13.96 | 14.20 | 13.87 | 14.01 | 1.20 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 1522.86 | 1523.89 | 1518.24 | 1521.66 | 0.20 | ppb |
| Iron | 56-2 | 1567.11 | 1590.35 | 1569.53 | 1575.66 | 0.81 | ppb |
| Iron | 57-2 | 1514.12 | 1510.92 | 1527.59 | 1517.54 | 0.58 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.15 | 0.09 | 0.11 | 0.11 | 26.25 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.10 | 0.12 | 0.11 | 11.90 | ppb |
| Lead | 208-1 | 0.13 | 0.10 | 0.11 | 0.11 | 16.58 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 91040.28 | 91624.61 | 91030.74 | 91231.88 | 0.37 | ppb |
| Manganese | 55-2 | 45.67 | 45.81 | 45.91 | 45.79 | 0.27 | ppb |
| Molybdenum | 94-1 | 0.63 | 0.53 | 0.60 | 0.58 | 8.68 | ppb |
| Molybdenum | 95-1 | 0.64 | 0.55 | 0.55 | 0.58 | 8.30 | ppb |
| Molybdenum | 96-1 | 0.60 | 0.51 | 0.58 | 0.57 | 8.32 | ppb |
| Molybdenum | 97-1 | 0.64 | 0.54 | 0.59 | 0.59 | 8.95 | ppb |
| Molybdenum | 98-1 | 0.61 | 0.54 | 0.57 | 0.57 | 6.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.15 | 2.10 | 2.11 | 2.12 | 1.14 | ppb |
| Phosphorus | 31-2 | -4.25 | -7.57 | -18.73 | -10.18 | | ppb |
| Potassium | 39-2 | 5914.86 | 5938.56 | 5961.26 | 5938.23 | 0.39 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.26 | 0.17 | 0.63 | 0.35 | 68.06 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.03 | -0.18 | -0.19 | -0.11 | | ppb |
| Silicon | 28-1 | 6385.06 | 5585.52 | 5875.24 | 5948.61 | 6.80 | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.02 | 0.02 | 17.96 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.46 | ppb |
| Sodium | 23-2 | 44968.39 | 44705.99 | 44826.30 | 44833.56 | 0.29 | ppb |
| Strontium | 86-1 | 15243.10 | 12863.24 | 13863.71 | 13990.02 | 8.54 | ppb |
| Strontium | 88-1 | 15249.44 | 12639.81 | 13718.94 | 13869.40 | 9.45 | ppb |
| Sulfur | 34-1 | 410430.65 | 360468.57 | 377164.83 | 382688.01 | 6.65 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 36.51 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.65 | ppb |
| Tin | 118-1 | 0.76 | 0.63 | 0.70 | 0.70 | 9.56 | ppb |
| Titanium | 47-1 | 0.71 | 0.55 | 0.70 | 0.65 | 13.65 | ppb |
| Uranium | 238-1 | 0.11 | 0.09 | 0.10 | 0.10 | 7.31 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.12 | 0.13 | 0.11 | 0.12 | 5.48 | 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 | 0.92 | 1.13 | 0.96 | 1.00 | 11.36 | ppb |
| Zirconium | 90-1 | 0.07 | 0.06 | 0.07 | 0.06 | 9.14 | ppb |
| Zirconium | 91-1 | 0.07 | 0.06 | 0.06 | 0.07 | 11.38 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.43 | 3.93 | 4.47 | 4.28 | 7.06 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.29 | ppb |
| Arsenic | 75-2 | 0.11 | 0.13 | 0.16 | 0.13 | 16.46 | ppb |
| Barium | 135-1 | 15.27 | 15.97 | 16.43 | 15.89 | 3.68 | ppb |
| Barium | 137-1 | 15.40 | 16.12 | 16.57 | 16.03 | 3.69 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.02 | 0.02 | 22.13 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 84 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.04 | 0.00 | 0.03 | 87.76 | ppb |
| Cadmium | 106-1 | -0.11 | -0.51 | -0.64 | -0.42 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.03 | -0.05 | -0.03 | | ppb |
| Calcium | 43-1 | 412869.76 | 421075.05 | 452949.38 | 428964.73 | 4.94 | ppb |
| Calcium | 44-1 | 406078.11 | 417501.39 | 441307.37 | 421628.96 | 4.26 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.06 | 0.01 | 0.03 | 0.03 | 74.38 | ppb |
| Cobalt | 59-2 | 0.06 | 0.06 | 0.06 | 0.06 | 0.91 | ppb |
| Copper | 63-2 | 0.41 | 0.43 | 0.45 | 0.43 | 4.54 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 92 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 83 | | % |
| Iron | 54-2 | 1365.95 | 1348.33 | 1354.19 | 1356.16 | 0.66 | ppb |
| Iron | 56-2 | 1411.19 | 1380.91 | 1405.59 | 1399.23 | 1.15 | ppb |
| Iron | 57-2 | 1364.50 | 1353.65 | 1385.03 | 1367.73 | 1.17 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.11 | 0.13 | 0.12 | 9.18 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.11 | 0.12 | 0.11 | 11.00 | ppb |
| Lead | 208-1 | 0.10 | 0.11 | 0.13 | 0.12 | 14.38 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 144517.23 | 143617.59 | 147785.23 | 145306.68 | 1.51 | ppb |
| Manganese | 55-2 | 50.60 | 51.26 | 51.77 | 51.21 | 1.14 | ppb |
| Molybdenum | 94-1 | 0.57 | 0.65 | 0.67 | 0.63 | 8.50 | ppb |
| Molybdenum | 95-1 | 0.67 | 0.73 | 0.72 | 0.71 | 4.39 | ppb |
| Molybdenum | 96-1 | 0.65 | 0.69 | 0.74 | 0.70 | 6.31 | ppb |
| Molybdenum | 97-1 | 0.68 | 0.71 | 0.79 | 0.73 | 8.10 | ppb |
| Molybdenum | 98-1 | 0.66 | 0.69 | 0.71 | 0.69 | 4.11 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.24 | 0.25 | 0.21 | 0.24 | 8.73 | ppb |
| Phosphorus | 31-2 | -7.95 | -8.06 | -10.60 | -8.87 | | ppb |
| Potassium | 39-2 | 4729.37 | 4705.87 | 4784.60 | 4739.95 | 0.85 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 86 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 91 | | % |
| Selenium | 82-1 | 0.36 | 0.33 | 0.22 | 0.30 | 25.34 | ppb |
| Selenium | 77-2 | 0.00 | 0.74 | 0.75 | 0.50 | 86.61 | ppb |
| Selenium | 78-2 | -0.09 | -0.14 | -0.57 | -0.27 | | ppb |
| Silicon | 28-1 | 8069.40 | 8141.29 | 8650.41 | 8287.03 | 3.82 | ppb |
| Silver | 107-1 | 0.02 | 0.03 | 0.03 | 0.03 | 15.92 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.03 | 0.02 | 42.18 | ppb |
| Sodium | 23-2 | 186739.20 | 184918.82 | 189692.39 | 187116.80 | 1.29 | ppb |
| Strontium | 86-1 | 13425.27 | 14044.99 | 14835.24 | 14101.84 | 5.01 | ppb |
| Strontium | 88-1 | 13152.71 | 14039.41 | 14707.56 | 13966.56 | 5.58 | ppb |
| Sulfur | 34-1 | 437671.93 | 446083.44 | 472599.15 | 452118.18 | 4.03 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 92 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.01 | 0.01 | 48.82 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 39.11 | ppb |
| Tin | 118-1 | 0.52 | 0.55 | 0.55 | 0.54 | 2.88 | ppb |
| Titanium | 47-1 | 0.71 | 0.67 | 0.69 | 0.69 | 3.15 | ppb |
| Uranium | 238-1 | 0.23 | 0.24 | 0.25 | 0.24 | 2.37 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.03 | 0.03 | 3.16 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 91 | | % |
| Zinc | 66-2 | 0.63 | 0.47 | 0.70 | 0.60 | 19.64 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 10.33 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.04 | 0.03 | 31.06 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.13 | 4.78 | 3.61 | 4.17 | 14.01 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.16 | ppb |
| Arsenic | 75-2 | 0.14 | 0.16 | 0.10 | 0.13 | 25.65 | ppb |
| Barium | 135-1 | 16.27 | 16.43 | 16.41 | 16.37 | 0.52 | ppb |
| Barium | 137-1 | 16.02 | 16.54 | 16.65 | 16.40 | 2.05 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.01 | 0.02 | 14.82 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 87 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.07 | 0.02 | 0.04 | 84.11 | ppb |
| Cadmium | 106-1 | -0.09 | -0.86 | -1.60 | -0.85 | | ppb |
| Cadmium | 111-1 | 0.00 | -0.07 | -0.12 | -0.06 | | ppb |
| Calcium | 43-1 | 424251.00 | 443114.31 | 458530.84 | 441965.38 | 3.88 | ppb |
| Calcium | 44-1 | 416533.92 | 435832.54 | 449659.96 | 434008.81 | 3.83 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.12 | 0.15 | 0.12 | 0.13 | 15.72 | ppb |
| Cobalt | 59-2 | 0.05 | 0.05 | 0.04 | 0.05 | 8.37 | ppb |
| Copper | 63-2 | 3.40 | 3.69 | 3.44 | 3.51 | 4.56 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 1454.36 | 1528.48 | 1485.45 | 1489.43 | 2.50 | ppb |
| Iron | 56-2 | 1546.56 | 1581.53 | 1537.17 | 1555.09 | 1.50 | ppb |
| Iron | 57-2 | 1477.74 | 1530.59 | 1492.19 | 1500.18 | 1.82 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.08 | 0.09 | 0.09 | 6.86 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.10 | 0.09 | 0.09 | 11.05 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.09 | 0.09 | 4.22 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 144366.16 | 148119.91 | 142692.00 | 145059.36 | 1.92 | ppb |
| Manganese | 55-2 | 50.18 | 52.44 | 50.11 | 50.91 | 2.60 | ppb |
| Molybdenum | 94-1 | 0.60 | 0.64 | 0.63 | 0.63 | 3.18 | ppb |
| Molybdenum | 95-1 | 0.70 | 0.73 | 0.72 | 0.72 | 1.95 | ppb |
| Molybdenum | 96-1 | 0.71 | 0.73 | 0.72 | 0.72 | 0.91 | ppb |
| Molybdenum | 97-1 | 0.72 | 0.71 | 0.75 | 0.73 | 3.02 | ppb |
| Molybdenum | 98-1 | 0.69 | 0.70 | 0.72 | 0.70 | 1.92 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.23 | 0.27 | 0.30 | 0.27 | 12.76 | ppb |
| Phosphorus | 31-2 | -15.01 | -3.31 | -15.94 | -11.42 | | ppb |
| Potassium | 39-2 | 4620.81 | 4887.59 | 4683.08 | 4730.50 | 2.95 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 88 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 94 | | % |
| Selenium | 82-1 | 0.60 | 0.09 | 0.09 | 0.26 | 112.91 | ppb |
| Selenium | 77-2 | 0.74 | 0.00 | 1.46 | 0.73 | 99.28 | ppb |
| Selenium | 78-2 | -0.14 | -0.58 | -0.37 | -0.36 | | ppb |
| Silicon | 28-1 | 7993.59 | 8370.39 | 8681.10 | 8348.36 | 4.12 | ppb |
| Silver | 107-1 | 0.02 | 0.03 | 0.03 | 0.03 | 15.57 | ppb |
| Silver | 109-1 | 0.02 | 0.03 | 0.03 | 0.02 | 24.87 | ppb |
| Sodium | 23-2 | 185716.71 | 189832.75 | 181963.27 | 185837.58 | 2.12 | ppb |
| Strontium | 86-1 | 14074.42 | 14037.34 | 14625.73 | 14245.83 | 2.31 | ppb |
| Strontium | 88-1 | 13965.18 | 14014.67 | 14643.25 | 14207.70 | 2.66 | ppb |
| Sulfur | 34-1 | 443792.98 | 454162.94 | 474883.76 | 457613.23 | 3.46 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.01 | 0.00 | 63.43 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.15 | ppb |
| Tin | 118-1 | 0.51 | 0.52 | 0.56 | 0.53 | 4.66 | ppb |
| Titanium | 47-1 | 0.81 | 0.70 | 0.71 | 0.74 | 8.41 | ppb |
| Uranium | 238-1 | 0.23 | 0.25 | 0.25 | 0.24 | 4.68 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.02 | 0.03 | 15.14 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 94 | | % |
| Zinc | 66-2 | 0.93 | 0.94 | 0.94 | 0.93 | 0.66 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 13.41 | ppb |
| Zirconium | 91-1 | 0.03 | 0.04 | 0.03 | 0.03 | 20.67 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.51 | 3.96 | 3.73 | 3.73 | 5.97 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | ppb |
| Arsenic | 75-2 | 0.03 | 0.01 | 0.04 | 0.03 | 67.66 | ppb |
| Barium | 135-1 | 3.17 | 3.20 | 3.22 | 3.19 | 0.87 | ppb |
| Barium | 137-1 | 3.34 | 3.25 | 3.32 | 3.31 | 1.46 | ppb |
| Beryllium | 9-1 | 0.02 | 0.01 | 0.01 | 0.01 | 22.43 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.03 | 0.02 | 0.02 | 52.02 | ppb |
| Cadmium | 106-1 | -0.20 | -0.64 | -0.14 | -0.33 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.05 | -0.01 | -0.02 | | ppb |
| Calcium | 43-1 | 86702.58 | 87031.67 | 87206.77 | 86980.34 | 0.29 | ppb |
| Calcium | 44-1 | 84696.12 | 86291.01 | 85024.67 | 85337.27 | 0.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.07 | -0.10 | -0.07 | -0.08 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 53.18 | ppb |
| Copper | 63-2 | 0.52 | 0.57 | 0.54 | 0.54 | 5.29 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 275.11 | 276.08 | 275.62 | 275.60 | 0.18 | ppb |
| Iron | 56-2 | 275.33 | 277.09 | 278.61 | 277.01 | 0.59 | ppb |
| Iron | 57-2 | 275.08 | 269.76 | 274.32 | 273.05 | 1.05 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.06 | 0.06 | 0.05 | 0.06 | 13.15 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.05 | 0.05 | 0.05 | 0.05 | 3.16 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 1.22 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 29163.29 | 29164.30 | 29857.36 | 29394.98 | 1.36 | ppb |
| Manganese | 55-2 | 12.59 | 12.76 | 12.76 | 12.70 | 0.74 | ppb |
| Molybdenum | 94-1 | 0.16 | 0.16 | 0.14 | 0.15 | 9.89 | ppb |
| Molybdenum | 95-1 | 0.15 | 0.16 | 0.17 | 0.16 | 6.87 | ppb |
| Molybdenum | 96-1 | 0.15 | 0.15 | 0.15 | 0.15 | 1.89 | ppb |
| Molybdenum | 97-1 | 0.17 | 0.16 | 0.14 | 0.16 | 8.62 | ppb |
| Molybdenum | 98-1 | 0.15 | 0.15 | 0.15 | 0.15 | 2.04 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.12 | 0.12 | 0.15 | 0.13 | 11.49 | ppb |
| Phosphorus | 31-2 | -20.71 | -28.23 | -27.65 | -25.53 | | ppb |
| Potassium | 39-2 | 958.22 | 953.81 | 960.45 | 957.49 | 0.35 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.20 | 0.07 | 0.14 | 0.14 | 49.40 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.67 | 0.45 | 86.63 | ppb |
| Selenium | 78-2 | -0.81 | -0.62 | -0.23 | -0.55 | | ppb |
| Silicon | 28-1 | 1635.27 | 1683.35 | 1670.04 | 1662.89 | 1.49 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 9.83 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.01 | 0.01 | 23.33 | ppb |
| Sodium | 23-2 | 37208.68 | 36945.63 | 37005.40 | 37053.24 | 0.37 | ppb |
| Strontium | 86-1 | 2823.07 | 2845.67 | 2867.26 | 2845.33 | 0.78 | ppb |
| Strontium | 88-1 | 2796.68 | 2822.07 | 2841.84 | 2820.20 | 0.80 | ppb |
| Sulfur | 34-1 | 89799.19 | 91822.32 | 90954.99 | 90858.83 | 1.12 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.00 | 0.01 | 0.00 | 0.01 | 22.75 | ppb |
| Thallium | 205-1 | 0.01 | 0.00 | 0.01 | 0.01 | 28.04 | ppb |
| Tin | 118-1 | 0.19 | 0.17 | 0.17 | 0.18 | 6.33 | ppb |
| Titanium | 47-1 | 0.17 | 0.14 | 0.17 | 0.16 | 9.24 | ppb |
| Uranium | 238-1 | 0.04 | 0.05 | 0.05 | 0.05 | 4.42 | ppb |

Reviewed By:Mohan
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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.01 | 0.01 | 61.85 | 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 | 0.49 | 0.58 | 0.57 | 0.54 | 9.05 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.01 | 0.01 | 37.45 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.01 | 0.01 | 23.29 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1765.93 | 1882.71 | 1853.20 | 1833.95 | 3.31 | ppb |
| Antimony | 121-1 | 106.84 | 101.22 | 109.15 | 105.74 | 3.86 | ppb |
| Arsenic | 75-2 | 40.08 | 40.32 | 41.47 | 40.62 | 1.83 | ppb |
| Barium | 135-1 | 2088.84 | 2033.63 | 2158.69 | 2093.72 | 2.99 | ppb |
| Barium | 137-1 | 2076.80 | 2013.44 | 2131.73 | 2073.99 | 2.85 | ppb |
| Beryllium | 9-1 | 49.54 | 49.27 | 51.62 | 50.14 | 2.57 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 38.69 | 39.60 | 40.32 | 39.54 | 2.06 | ppb |
| Cadmium | 106-1 | 38.99 | 37.29 | 39.40 | 38.56 | 2.90 | ppb |
| Cadmium | 111-1 | 48.32 | 46.19 | 49.38 | 47.96 | 3.39 | ppb |
| Calcium | 43-1 | 443408.94 | 426142.76 | 454127.60 | 441226.43 | 3.20 | ppb |
| Calcium | 44-1 | 435147.37 | 422221.51 | 439651.57 | 432340.15 | 2.09 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 196.50 | 209.44 | 205.11 | 203.68 | 3.23 | ppb |
| Cobalt | 59-2 | 504.68 | 533.32 | 517.64 | 518.55 | 2.77 | ppb |
| Copper | 63-2 | 251.10 | 249.49 | 245.97 | 248.86 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 2399.61 | 2525.26 | 2500.93 | 2475.26 | 2.69 | ppb |
| Iron | 56-2 | 2347.19 | 2440.89 | 2403.98 | 2397.35 | 1.97 | ppb |
| Iron | 57-2 | 2257.71 | 2389.16 | 2337.98 | 2328.28 | 2.85 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 20.12 | 19.90 | 20.66 | 20.22 | 1.93 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 20.19 | 19.64 | 20.69 | 20.18 | 2.59 | ppb |
| Lead | 208-1 | 20.08 | 19.73 | 20.62 | 20.15 | 2.22 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 134905.77 | 143549.67 | 141063.07 | 139839.51 | 3.18 | ppb |
| Manganese | 55-2 | 521.93 | 551.72 | 538.87 | 537.51 | 2.78 | ppb |
| Molybdenum | 94-1 | 0.65 | 0.68 | 0.68 | 0.67 | 2.86 | ppb |
| Molybdenum | 95-1 | 0.71 | 0.71 | 0.80 | 0.74 | 7.05 | ppb |
| Molybdenum | 96-1 | 0.73 | 0.73 | 0.75 | 0.74 | 1.26 | ppb |
| Molybdenum | 97-1 | 0.70 | 0.70 | 0.77 | 0.72 | 5.76 | ppb |
| Molybdenum | 98-1 | 0.71 | 0.68 | 0.77 | 0.72 | 6.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 470.06 | 496.30 | 484.57 | 483.64 | 2.72 | ppb |
| Phosphorus | 31-2 | -3.76 | -5.92 | -5.03 | -4.91 | | ppb |
| Potassium | 39-2 | 4525.15 | 4795.15 | 4671.74 | 4664.01 | 2.90 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 19.28 | 19.22 | 20.11 | 19.54 | 2.54 | ppb |
| Selenium | 77-2 | 12.53 | 21.10 | 15.99 | 16.54 | 26.06 | ppb |
| Selenium | 78-2 | 18.35 | 17.58 | 17.77 | 17.90 | 2.23 | ppb |
| Silicon | 28-1 | 8648.84 | 8376.15 | 8768.45 | 8597.81 | 2.34 | ppb |
| Silver | 107-1 | 45.83 | 44.96 | 47.73 | 46.17 | 3.07 | ppb |
| Silver | 109-1 | 46.84 | 45.17 | 48.38 | 46.80 | 3.44 | ppb |
| Sodium | 23-2 | 174580.37 | 186257.11 | 180303.28 | 180380.26 | 3.24 | ppb |
| Strontium | 86-1 | 13829.58 | 13853.14 | 14627.45 | 14103.39 | 3.22 | ppb |
| Strontium | 88-1 | 13921.07 | 13765.90 | 14607.34 | 14098.10 | 3.18 | ppb |
| Sulfur | 34-1 | 463428.72 | 448165.97 | 479530.89 | 463708.53 | 3.38 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 50.73 | 50.10 | 51.96 | 50.93 | 1.86 | ppb |
| Thallium | 205-1 | 54.91 | 53.15 | 55.22 | 54.43 | 2.06 | ppb |
| Tin | 118-1 | 0.59 | 0.57 | 0.60 | 0.59 | 2.58 | ppb |
| Titanium | 47-1 | 0.74 | 0.79 | 0.76 | 0.76 | 3.36 | ppb |
| Uranium | 238-1 | 0.25 | 0.24 | 0.25 | 0.25 | 1.82 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 513.59 | 527.79 | 537.72 | 526.37 | 2.30 | 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 | 453.34 | 482.04 | 468.81 | 468.06 | 3.07 | ppb |
| Zirconium | 90-1 | 0.05 | 0.05 | 0.05 | 0.05 | 4.48 | ppb |
| Zirconium | 91-1 | 0.06 | 0.08 | 0.08 | 0.07 | 11.99 | ppb |

Reviewed By:Mohan
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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 588.14 | 589.99 | 590.28 | 589.47 | 0.20 | ppb |
| Antimony | 121-1 | 0.09 | 0.11 | 0.10 | 0.10 | 7.14 | ppb |
| Arsenic | 75-2 | 2.36 | 2.33 | 2.31 | 2.33 | 1.09 | ppb |
| Barium | 135-1 | 45.50 | 43.14 | 42.05 | 43.56 | 4.05 | ppb |
| Barium | 137-1 | 45.65 | 43.25 | 42.15 | 43.68 | 4.10 | ppb |
| Beryllium | 9-1 | 0.04 | 0.03 | 0.03 | 0.03 | 17.13 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.62 | 0.51 | 0.55 | 0.56 | 9.70 | ppb |
| Cadmium | 106-1 | 0.60 | 1.15 | -0.31 | 0.48 | 152.58 | ppb |
| Cadmium | 111-1 | 0.08 | 0.12 | 0.00 | 0.07 | 94.01 | ppb |
| Calcium | 43-1 | 147120.94 | 136843.39 | 135540.27 | 139834.87 | 4.54 | ppb |
| Calcium | 44-1 | 143323.31 | 135166.86 | 134663.18 | 137717.78 | 3.53 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.05 | 0.06 | 0.03 | 0.05 | 27.55 | ppb |
| Cobalt | 59-2 | 0.14 | 0.16 | 0.15 | 0.15 | 5.75 | ppb |
| Copper | 63-2 | 1.00 | 0.92 | 0.95 | 0.96 | 3.96 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 17.25 | 18.84 | 17.08 | 17.72 | 5.45 | ppb |
| Iron | 56-2 | 18.50 | 18.24 | 18.02 | 18.25 | 1.29 | ppb |
| Iron | 57-2 | 22.19 | 21.88 | 22.90 | 22.32 | 2.35 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.25 | 0.22 | 0.22 | 0.23 | 8.07 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.23 | 0.21 | 0.23 | 0.22 | 5.44 | ppb |
| Lead | 208-1 | 0.24 | 0.21 | 0.22 | 0.22 | 7.38 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 22.47 | 24.34 | 22.75 | 23.19 | 4.35 | ppb |
| Manganese | 55-2 | 1.96 | 2.05 | 2.03 | 2.01 | 2.33 | ppb |
| Molybdenum | 94-1 | 38.17 | 35.81 | 35.41 | 36.47 | 4.09 | ppb |
| Molybdenum | 95-1 | 46.31 | 43.51 | 42.65 | 44.16 | 4.33 | ppb |
| Molybdenum | 96-1 | 44.96 | 42.29 | 41.53 | 42.93 | 4.20 | ppb |
| Molybdenum | 97-1 | 46.41 | 43.90 | 42.94 | 44.42 | 4.04 | ppb |
| Molybdenum | 98-1 | 45.82 | 42.55 | 42.18 | 43.52 | 4.61 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 161.41 | 159.77 | 160.30 | 160.49 | 0.52 | ppb |
| Phosphorus | 31-2 | 340.77 | 367.38 | 377.00 | 361.71 | 5.19 | ppb |
| Potassium | 39-2 | 60624.07 | 59943.66 | 58929.27 | 59832.33 | 1.43 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 1.87 | 1.63 | 1.62 | 1.71 | 8.09 | ppb |
| Selenium | 77-2 | 0.00 | 3.25 | 2.00 | 1.75 | 93.69 | ppb |
| Selenium | 78-2 | 0.13 | 0.88 | 0.93 | 0.64 | 69.84 | ppb |
| Silicon | 28-1 | 2495.92 | 2399.26 | 2355.50 | 2416.89 | 2.97 | ppb |
| Silver | 107-1 | 0.05 | 0.03 | 0.03 | 0.04 | 24.18 | ppb |
| Silver | 109-1 | 0.04 | 0.04 | 0.03 | 0.04 | 14.71 | ppb |
| Sodium | 23-2 | 30046.30 | 29725.59 | 30075.56 | 29949.15 | 0.65 | ppb |
| Strontium | 86-1 | 1432.76 | 1348.89 | 1319.81 | 1367.15 | 4.29 | ppb |
| Strontium | 88-1 | 1444.12 | 1338.31 | 1323.61 | 1368.68 | 4.80 | ppb |
| Sulfur | 34-1 | 14468.61 | 12775.97 | 12649.78 | 13298.12 | 7.64 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.02 | 0.02 | 25.40 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.34 | ppb |
| Tin | 118-1 | 0.48 | 0.48 | 0.45 | 0.47 | 4.01 | ppb |
| Titanium | 47-1 | 0.76 | 0.64 | 0.58 | 0.66 | 13.44 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.72 | 2.74 | 2.69 | 2.72 | 0.95 | 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 | 1.33 | 1.29 | 1.29 | 1.30 | 2.04 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.26 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.89 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 57.33 | 53.78 | 46.63 | 52.58 | 10.37 | ppb |
| Antimony | 121-1 | 0.22 | 0.19 | 0.20 | 0.20 | 6.17 | ppb |
| Arsenic | 75-2 | 1.21 | 1.59 | 1.13 | 1.31 | 18.48 | ppb |
| Barium | 135-1 | 23.56 | 22.56 | 22.71 | 22.94 | 2.34 | ppb |
| Barium | 137-1 | 23.76 | 22.36 | 22.53 | 22.89 | 3.33 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.02 | 0.02 | 28.87 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.37 | 0.60 | 0.45 | 0.47 | 25.12 | ppb |
| Cadmium | 106-1 | 0.35 | 0.97 | 0.59 | 0.63 | 48.88 | ppb |
| Cadmium | 111-1 | 0.09 | 0.10 | 0.09 | 0.10 | 8.06 | ppb |
| Calcium | 43-1 | 18864.24 | 17680.02 | 17852.46 | 18132.24 | 3.53 | ppb |
| Calcium | 44-1 | 19151.47 | 17593.56 | 17776.47 | 18173.83 | 4.69 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.03 | -0.03 | -0.05 | -0.02 | | ppb |
| Cobalt | 59-2 | 0.12 | 0.11 | 0.10 | 0.11 | 9.43 | ppb |
| Copper | 63-2 | 4.03 | 4.04 | 3.26 | 3.78 | 11.86 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 127.80 | 125.40 | 106.76 | 119.99 | 9.60 | ppb |
| Iron | 56-2 | 126.40 | 124.66 | 107.17 | 119.41 | 8.90 | ppb |
| Iron | 57-2 | 123.17 | 125.87 | 113.12 | 120.72 | 5.56 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.09 | 0.08 | 0.10 | 25.47 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.11 | 0.10 | 0.09 | 0.10 | 9.23 | ppb |
| Lead | 208-1 | 0.11 | 0.09 | 0.08 | 0.09 | 14.13 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 441.71 | 448.00 | 377.47 | 422.39 | 9.24 | ppb |
| Manganese | 55-2 | 8.37 | 8.43 | 7.30 | 8.04 | 7.90 | ppb |
| Molybdenum | 94-1 | 29.70 | 27.75 | 28.31 | 28.59 | 3.51 | ppb |
| Molybdenum | 95-1 | 36.00 | 34.03 | 34.46 | 34.83 | 2.97 | ppb |
| Molybdenum | 96-1 | 35.03 | 33.12 | 33.22 | 33.79 | 3.19 | ppb |
| Molybdenum | 97-1 | 36.05 | 34.02 | 34.63 | 34.90 | 2.99 | ppb |
| Molybdenum | 98-1 | 35.70 | 33.52 | 33.80 | 34.34 | 3.45 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 26.95 | 26.68 | 22.56 | 25.40 | 9.69 | ppb |
| Phosphorus | 31-2 | 107.43 | 87.03 | 96.12 | 96.86 | 10.55 | ppb |
| Potassium | 39-2 | 80508.24 | 79640.33 | 68454.29 | 76200.95 | 8.82 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 1.07 | 1.03 | 1.06 | 1.05 | 1.58 | ppb |
| Selenium | 77-2 | 1.34 | 1.36 | 0.00 | 0.90 | 86.61 | ppb |
| Selenium | 78-2 | 0.74 | 0.38 | 0.57 | 0.56 | 32.25 | ppb |
| Silicon | 28-1 | 2113.70 | 1977.76 | 2017.92 | 2036.46 | 3.43 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 33.47 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 9.08 | ppb |
| Sodium | 23-2 | 52562.08 | 52636.09 | 45279.71 | 50159.29 | 8.43 | ppb |
| Strontium | 86-1 | 543.90 | 528.68 | 517.53 | 530.04 | 2.50 | ppb |
| Strontium | 88-1 | 548.47 | 501.45 | 519.92 | 523.28 | 4.53 | ppb |
| Sulfur | 34-1 | 14567.05 | 12578.92 | 12528.35 | 13224.77 | 8.79 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 17.31 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 1.43 | ppb |
| Tin | 118-1 | 0.48 | 0.42 | 0.43 | 0.44 | 7.12 | ppb |
| Titanium | 47-1 | 0.39 | 0.36 | 0.39 | 0.38 | 4.53 | ppb |
| Uranium | 238-1 | 0.12 | 0.12 | 0.12 | 0.12 | 2.54 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1.82 | 1.85 | 1.50 | 1.72 | 11.48 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 4.38 | 4.19 | 3.79 | 4.12 | 7.40 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 28.30 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.34 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 753.54 | 693.20 | 640.55 | 695.76 | 8.13 | ppb |
| Antimony | 121-1 | 0.13 | 0.12 | 0.11 | 0.12 | 7.94 | ppb |
| Arsenic | 75-2 | 5.20 | 4.26 | 4.72 | 4.73 | 9.96 | ppb |
| Barium | 135-1 | 58.30 | 52.19 | 52.17 | 54.22 | 6.52 | ppb |
| Barium | 137-1 | 57.71 | 52.69 | 51.94 | 54.12 | 5.80 | ppb |
| Beryllium | 9-1 | 0.02 | 0.01 | 0.02 | 0.01 | 39.53 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.32 | 1.21 | 1.10 | 1.21 | 9.05 | ppb |
| Cadmium | 106-1 | -0.31 | 0.23 | -0.14 | -0.07 | | ppb |
| Cadmium | 111-1 | 0.01 | 0.06 | 0.03 | 0.03 | 76.88 | ppb |
| Calcium | 43-1 | 125257.59 | 114884.75 | 112089.64 | 117410.66 | 5.91 | ppb |
| Calcium | 44-1 | 124398.07 | 111691.49 | 110421.70 | 115503.75 | 6.69 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.57 | 0.48 | 0.44 | 0.50 | 12.96 | ppb |
| Cobalt | 59-2 | 0.18 | 0.13 | 0.13 | 0.15 | 17.59 | ppb |
| Copper | 63-2 | 2.73 | 2.41 | 2.35 | 2.50 | 8.12 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 54-2 | 16.28 | 14.05 | 13.25 | 14.53 | 10.81 | ppb |
| Iron | 56-2 | 15.97 | 14.39 | 13.26 | 14.54 | 9.38 | ppb |
| Iron | 57-2 | 19.01 | 17.20 | 15.17 | 17.13 | 11.22 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.07 | 0.06 | 0.07 | 17.24 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.07 | 0.05 | 0.05 | 0.06 | 16.69 | ppb |
| Lead | 208-1 | 0.08 | 0.06 | 0.06 | 0.07 | 14.41 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | -4.97 | -6.84 | -6.59 | -6.13 | | ppb |
| Manganese | 55-2 | 0.84 | 0.80 | 0.75 | 0.80 | 5.49 | ppb |
| Molybdenum | 94-1 | 78.98 | 71.81 | 70.71 | 73.83 | 6.08 | ppb |
| Molybdenum | 95-1 | 95.78 | 86.70 | 86.30 | 89.59 | 5.99 | ppb |
| Molybdenum | 96-1 | 93.66 | 84.40 | 84.39 | 87.48 | 6.11 | ppb |
| Molybdenum | 97-1 | 95.79 | 88.06 | 87.81 | 90.55 | 5.01 | ppb |
| Molybdenum | 98-1 | 95.92 | 86.45 | 85.62 | 89.33 | 6.40 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 451.81 | 412.22 | 387.91 | 417.31 | 7.73 | ppb |
| Phosphorus | 31-2 | 555.61 | 554.31 | 507.72 | 539.22 | 5.06 | ppb |
| Potassium | 39-2 | 192994.40 | 173166.33 | 163903.79 | 176688.17 | 8.41 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 2.07 | 1.67 | 2.10 | 1.95 | 12.39 | ppb |
| Selenium | 77-2 | 1.34 | 1.82 | 2.38 | 1.85 | 28.02 | ppb |
| Selenium | 78-2 | 0.36 | 0.41 | 0.03 | 0.27 | 76.95 | ppb |
| Silicon | 28-1 | 3291.45 | 2994.54 | 2954.21 | 3080.07 | 5.98 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.64 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.61 | ppb |
| Sodium | 23-2 | 117249.70 | 107373.52 | 101618.50 | 108747.24 | 7.27 | ppb |
| Strontium | 86-1 | 2514.02 | 2267.48 | 2205.36 | 2328.95 | 7.01 | ppb |
| Strontium | 88-1 | 2506.58 | 2267.74 | 2222.59 | 2332.30 | 6.54 | ppb |
| Sulfur | 34-1 | 15958.95 | 13322.03 | 12303.38 | 13861.46 | 13.61 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 32.40 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 34.05 | ppb |
| Tin | 118-1 | 0.59 | 0.51 | 0.54 | 0.55 | 7.34 | ppb |
| Titanium | 47-1 | 0.87 | 0.78 | 0.70 | 0.78 | 10.82 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.96 | 2.70 | 2.56 | 2.74 | 7.51 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 1.16 | 0.93 | 0.79 | 0.96 | 19.22 | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.01 | 0.01 | 45.89 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.01 | 0.01 | 46.98 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47976.81 | 47843.64 | 47911.96 | 47910.80 | 0.14 | ppb |
| Antimony | 121-1 | 498.50 | 494.81 | 501.39 | 498.23 | 0.66 | ppb |
| Arsenic | 75-2 | 500.17 | 493.54 | 491.44 | 495.05 | 0.92 | ppb |
| Barium | 135-1 | 2527.35 | 2530.19 | 2521.48 | 2526.34 | 0.18 | ppb |
| Barium | 137-1 | 2470.09 | 2523.62 | 2520.69 | 2504.80 | 1.20 | ppb |
| Beryllium | 9-1 | 500.78 | 506.26 | 506.53 | 504.52 | 0.64 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 489.89 | 495.21 | 498.28 | 494.46 | 0.86 | ppb |
| Cadmium | 106-1 | 488.83 | 500.44 | 500.61 | 496.63 | 1.36 | ppb |
| Cadmium | 111-1 | 478.19 | 492.59 | 496.88 | 489.22 | 2.00 | ppb |
| Calcium | 43-1 | 236169.68 | 235527.59 | 235923.61 | 235873.63 | 0.14 | ppb |
| Calcium | 44-1 | 233912.85 | 229823.79 | 233700.62 | 232479.09 | 0.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 516.50 | 523.71 | 503.93 | 514.71 | 1.94 | ppb |
| Cobalt | 59-2 | 496.54 | 504.25 | 511.18 | 503.99 | 1.45 | ppb |
| Copper | 63-2 | 4883.75 | 4815.74 | 4768.40 | 4822.63 | 1.20 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 121167.78 | 120020.97 | 119464.81 | 120217.85 | 0.72 | ppb |
| Iron | 56-2 | 123247.76 | 121387.06 | 119927.70 | 121520.84 | 1.37 | ppb |
| Iron | 57-2 | 124858.82 | 122429.51 | 120147.24 | 122478.52 | 1.92 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2571.64 | 2609.70 | 2552.56 | 2577.97 | 1.13 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2590.44 | 2602.24 | 2573.75 | 2588.81 | 0.55 | ppb |
| Lead | 208-1 | 2548.22 | 2588.29 | 2569.16 | 2568.56 | 0.78 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 239830.92 | 239359.26 | 240632.27 | 239940.82 | 0.27 | ppb |
| Manganese | 55-2 | 5110.18 | 5011.91 | 4939.62 | 5020.57 | 1.71 | ppb |
| Molybdenum | 94-1 | 5034.75 | 5100.34 | 5100.03 | 5078.37 | 0.74 | ppb |
| Molybdenum | 95-1 | 5058.07 | 5126.51 | 5116.26 | 5100.28 | 0.72 | ppb |
| Molybdenum | 96-1 | 5013.09 | 5126.57 | 5140.98 | 5093.55 | 1.38 | ppb |
| Molybdenum | 97-1 | 4940.15 | 5109.79 | 5105.51 | 5051.82 | 1.91 | ppb |
| Molybdenum | 98-1 | 4955.71 | 5110.30 | 5099.74 | 5055.25 | 1.71 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 463.82 | 464.34 | 464.02 | 464.06 | 0.06 | ppb |
| Phosphorus | 31-2 | 9918.41 | 9880.61 | 9711.04 | 9836.69 | 1.12 | ppb |
| Potassium | 39-2 | 118573.42 | 119155.85 | 119483.50 | 119070.92 | 0.39 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 482.20 | 493.16 | 484.89 | 486.75 | 1.17 | ppb |
| Selenium | 77-2 | 536.91 | 489.20 | 490.60 | 505.57 | 5.37 | ppb |
| Selenium | 78-2 | 486.84 | 460.47 | 483.76 | 477.02 | 3.02 | ppb |
| Silicon | 28-1 | 535.46 | 536.48 | 548.70 | 540.22 | 1.36 | ppb |
| Silver | 107-1 | 482.27 | 478.33 | 485.00 | 481.87 | 0.70 | ppb |
| Silver | 109-1 | 479.80 | 480.22 | 492.08 | 484.03 | 1.44 | ppb |
| Sodium | 23-2 | 240799.53 | 240334.93 | 237726.67 | 239620.37 | 0.69 | ppb |
| Strontium | 86-1 | 508.75 | 514.26 | 511.07 | 511.36 | 0.54 | ppb |
| Strontium | 88-1 | 500.60 | 509.30 | 509.25 | 506.38 | 0.99 | ppb |
| Sulfur | 34-1 | 10551.13 | 10441.32 | 10081.83 | 10358.09 | 2.37 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 521.68 | 517.66 | 513.65 | 517.66 | 0.78 | ppb |
| Thallium | 205-1 | 513.71 | 516.84 | 516.72 | 515.76 | 0.34 | ppb |
| Tin | 118-1 | 502.85 | 501.50 | 512.68 | 505.68 | 1.21 | ppb |
| Titanium | 47-1 | 4971.39 | 5080.00 | 5107.93 | 5053.11 | 1.43 | ppb |
| Uranium | 238-1 | 514.93 | 516.71 | 522.11 | 517.92 | 0.72 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 516.69 | 516.68 | 510.76 | 514.71 | 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 | | | | 98 | | % |
| Zinc | 66-2 | 4935.00 | 4840.49 | 4753.00 | 4842.83 | 1.88 | ppb |
| Zirconium | 90-1 | 508.53 | 516.23 | 515.36 | 513.37 | 0.82 | ppb |
| Zirconium | 91-1 | 519.69 | 521.22 | 517.44 | 519.45 | 0.37 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.56 | 1.33 | 1.40 | 1.43 | 8.11 | ppb |
| Antimony | 121-1 | 0.15 | 0.13 | 0.12 | 0.14 | 11.90 | ppb |
| Arsenic | 75-2 | -0.01 | 0.01 | 0.01 | 0.00 | 444.67 | ppb |
| Barium | 135-1 | 0.12 | 0.08 | 0.08 | 0.09 | 20.95 | ppb |
| Barium | 137-1 | 0.10 | 0.08 | 0.08 | 0.09 | 12.21 | ppb |
| Beryllium | 9-1 | 0.16 | 0.14 | 0.13 | 0.15 | 9.74 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.06 | 0.06 | 0.04 | 0.05 | 17.87 | ppb |
| Cadmium | 106-1 | -0.83 | 0.18 | -0.47 | -0.38 | | ppb |
| Cadmium | 111-1 | -0.03 | 0.05 | -0.01 | 0.00 | 9189.77 | ppb |
| Calcium | 43-1 | 10.19 | 6.82 | 5.50 | 7.50 | 32.23 | ppb |
| Calcium | 44-1 | 12.34 | 8.57 | 7.71 | 9.54 | 25.83 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.16 | -0.16 | -0.13 | -0.15 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.01 | 0.01 | 0.01 | 28.25 | ppb |
| Copper | 63-2 | 0.29 | 0.26 | 0.26 | 0.27 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 3.90 | 2.71 | 3.48 | 3.36 | 17.90 | ppb |
| Iron | 56-2 | 3.51 | 3.32 | 3.37 | 3.40 | 2.82 | ppb |
| Iron | 57-2 | 3.64 | 3.83 | 2.12 | 3.19 | 29.39 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.34 | 0.29 | 0.26 | 0.30 | 14.67 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.32 | 0.28 | 0.26 | 0.29 | 11.88 | ppb |
| Lead | 208-1 | 0.33 | 0.29 | 0.25 | 0.29 | 12.80 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | -5.09 | -5.31 | -5.63 | -5.34 | | ppb |
| Manganese | 55-2 | 0.12 | 0.11 | 0.09 | 0.11 | 12.63 | ppb |
| Molybdenum | 94-1 | 0.36 | 0.27 | 0.25 | 0.29 | 20.34 | ppb |
| Molybdenum | 95-1 | 0.33 | 0.26 | 0.23 | 0.27 | 19.63 | ppb |
| Molybdenum | 96-1 | 0.32 | 0.26 | 0.23 | 0.27 | 17.98 | ppb |
| Molybdenum | 97-1 | 0.30 | 0.25 | 0.23 | 0.26 | 15.63 | ppb |
| Molybdenum | 98-1 | 0.32 | 0.26 | 0.21 | 0.26 | 21.65 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.11 | -0.10 | -0.06 | -0.09 | | ppb |
| Phosphorus | 31-2 | -26.34 | -25.69 | -24.61 | -25.55 | | ppb |
| Potassium | 39-2 | 41.15 | 36.08 | 39.28 | 38.84 | 6.60 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.06 | 0.07 | -0.11 | 0.00 | 3164.53 | ppb |
| Selenium | 77-2 | 0.00 | 0.66 | 0.68 | 0.45 | 86.63 | ppb |
| Selenium | 78-2 | -1.01 | -0.81 | 0.58 | -0.41 | | ppb |
| Silicon | 28-1 | 13.08 | 10.20 | 8.33 | 10.54 | 22.73 | ppb |
| Silver | 107-1 | 0.07 | 0.07 | 0.05 | 0.06 | 13.94 | ppb |
| Silver | 109-1 | 0.07 | 0.06 | 0.05 | 0.06 | 15.67 | ppb |
| Sodium | 23-2 | 59.24 | 54.81 | 56.04 | 56.70 | 4.04 | ppb |
| Strontium | 86-1 | 0.05 | 0.02 | 0.03 | 0.03 | 45.87 | ppb |
| Strontium | 88-1 | 0.06 | 0.05 | 0.04 | 0.05 | 22.72 | ppb |
| Sulfur | 34-1 | -583.90 | -606.80 | -572.01 | -587.57 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.05 | 0.05 | 0.05 | 0.05 | 6.06 | ppb |
| Thallium | 205-1 | 0.06 | 0.05 | 0.04 | 0.05 | 15.17 | ppb |
| Tin | 118-1 | 0.03 | 0.03 | 0.01 | 0.02 | 37.76 | ppb |
| Titanium | 47-1 | 0.31 | 0.18 | 0.16 | 0.21 | 38.82 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 22.44 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.02 | 0.02 | 0.02 | 34.38 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.02 | -0.07 | -0.09 | -0.05 | | ppb |
| Zirconium | 90-1 | 0.04 | 0.03 | 0.03 | 0.03 | 20.26 | ppb |
| Zirconium | 91-1 | 0.04 | 0.03 | 0.03 | 0.03 | 19.72 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 732.02 | 740.25 | 755.59 | 742.62 | 1.61 | ppb |
| Antimony | 121-1 | 0.13 | 0.13 | 0.13 | 0.13 | 0.63 | ppb |
| Arsenic | 75-2 | 4.53 | 4.57 | 5.08 | 4.73 | 6.54 | ppb |
| Barium | 135-1 | 52.05 | 50.51 | 52.29 | 51.62 | 1.88 | ppb |
| Barium | 137-1 | 52.76 | 50.93 | 52.45 | 52.05 | 1.88 | ppb |
| Beryllium | 9-1 | 0.06 | 0.06 | 0.06 | 0.06 | 6.74 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.10 | 1.05 | 1.02 | 1.06 | 3.91 | ppb |
| Cadmium | 106-1 | -0.18 | 0.27 | 0.44 | 0.18 | 182.35 | ppb |
| Cadmium | 111-1 | 0.03 | 0.06 | 0.10 | 0.06 | 55.58 | ppb |
| Calcium | 43-1 | 114045.57 | 106195.33 | 107946.75 | 109395.88 | 3.77 | ppb |
| Calcium | 44-1 | 111385.91 | 106043.89 | 107065.57 | 108165.12 | 2.62 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.07 | 0.06 | 0.08 | 0.07 | 13.42 | ppb |
| Cobalt | 59-2 | 0.16 | 0.17 | 0.16 | 0.16 | 4.21 | ppb |
| Copper | 63-2 | 0.51 | 0.51 | 0.56 | 0.53 | 5.20 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 11.04 | 11.73 | 11.56 | 11.45 | 3.15 | ppb |
| Iron | 56-2 | 11.39 | 11.68 | 11.79 | 11.62 | 1.76 | ppb |
| Iron | 57-2 | 13.44 | 14.15 | 15.00 | 14.20 | 5.52 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.15 | 0.13 | 0.13 | 0.14 | 8.08 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.14 | 0.15 | 0.14 | 0.14 | 4.40 | ppb |
| Lead | 208-1 | 0.14 | 0.14 | 0.14 | 0.14 | 2.49 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | -6.30 | -6.03 | -5.23 | -5.85 | | ppb |
| Manganese | 55-2 | 0.66 | 0.60 | 0.59 | 0.62 | 6.64 | ppb |
| Molybdenum | 94-1 | 70.78 | 67.58 | 69.64 | 69.33 | 2.34 | ppb |
| Molybdenum | 95-1 | 84.83 | 81.30 | 84.65 | 83.59 | 2.38 | ppb |
| Molybdenum | 96-1 | 83.17 | 79.17 | 82.36 | 81.57 | 2.59 | ppb |
| Molybdenum | 97-1 | 85.71 | 82.99 | 84.06 | 84.25 | 1.63 | ppb |
| Molybdenum | 98-1 | 84.52 | 81.38 | 83.38 | 83.09 | 1.91 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 436.04 | 443.99 | 448.75 | 442.93 | 1.45 | ppb |
| Phosphorus | 31-2 | 568.81 | 589.60 | 592.43 | 583.61 | 2.21 | ppb |
| Potassium | 39-2 | 182557.57 | 187071.56 | 189678.01 | 186435.71 | 1.93 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 2.03 | 2.02 | 1.97 | 2.00 | 1.59 | ppb |
| Selenium | 77-2 | 1.33 | 0.00 | 0.00 | 0.44 | 173.21 | ppb |
| Selenium | 78-2 | -0.43 | -0.61 | -0.01 | -0.35 | | ppb |
| Silicon | 28-1 | 2937.34 | 2813.79 | 2863.52 | 2871.55 | 2.16 | ppb |
| Silver | 107-1 | 0.03 | 0.02 | 0.02 | 0.02 | 10.40 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.00 | ppb |
| Sodium | 23-2 | 115053.18 | 116500.94 | 117560.84 | 116371.65 | 1.08 | ppb |
| Strontium | 86-1 | 2248.79 | 2181.53 | 2171.99 | 2200.77 | 1.90 | ppb |
| Strontium | 88-1 | 2239.27 | 2133.29 | 2194.58 | 2189.05 | 2.43 | ppb |
| Sulfur | 34-1 | 12950.43 | 11473.31 | 11202.71 | 11875.48 | 7.92 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.25 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 14.04 | ppb |
| Tin | 118-1 | 0.50 | 0.47 | 0.52 | 0.50 | 4.88 | ppb |
| Titanium | 47-1 | 0.71 | 0.71 | 0.67 | 0.70 | 3.08 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.11 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.88 | 2.85 | 2.88 | 2.87 | 0.52 | 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 | 1.19 | 1.38 | 1.51 | 1.36 | 11.93 | ppb |
| Zirconium | 90-1 | 0.05 | 0.05 | 0.04 | 0.05 | 13.51 | ppb |
| Zirconium | 91-1 | 0.07 | 0.05 | 0.04 | 0.05 | 34.86 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.53 | 1.72 | 1.54 | 1.93 | 27.40 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.59 | ppb |
| Arsenic | 75-2 | 0.02 | 0.03 | 0.04 | 0.03 | 35.62 | ppb |
| Barium | 135-1 | 4.12 | 4.19 | 4.29 | 4.20 | 2.07 | ppb |
| Barium | 137-1 | 4.06 | 4.23 | 4.36 | 4.22 | 3.49 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.04 | 0.04 | 5.08 | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.05 | -0.01 | 0.01 | 264.01 | ppb |
| Cadmium | 106-1 | -1.14 | -0.54 | 0.18 | -0.50 | | ppb |
| Cadmium | 111-1 | -0.08 | -0.04 | 0.02 | -0.03 | | ppb |
| Calcium | 43-1 | 134939.92 | 138480.23 | 135555.03 | 136325.06 | 1.39 | ppb |
| Calcium | 44-1 | 132055.16 | 135174.18 | 133043.61 | 133424.32 | 1.19 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.17 | -0.15 | -0.14 | -0.15 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 6.33 | ppb |
| Copper | 63-2 | 0.19 | 0.18 | 0.19 | 0.19 | 3.13 | 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 | | | | 120 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 117 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 54-2 | 428.26 | 426.19 | 427.72 | 427.39 | 0.25 | ppb |
| Iron | 56-2 | 453.78 | 445.74 | 442.11 | 447.21 | 1.34 | ppb |
| Iron | 57-2 | 441.56 | 437.77 | 431.48 | 436.94 | 1.17 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.28 | 0.23 | 0.18 | 0.23 | 20.73 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.30 | 0.22 | 0.17 | 0.23 | 28.82 | ppb |
| Lead | 208-1 | 0.29 | 0.23 | 0.19 | 0.23 | 21.95 | ppb |
| Lithium | 6-1 | | | | 117 | | % |
| Magnesium | 24-2 | 44639.43 | 45447.42 | 45070.45 | 45052.43 | 0.90 | ppb |
| Manganese | 55-2 | 16.69 | 16.19 | 16.13 | 16.33 | 1.89 | ppb |
| Molybdenum | 94-1 | 0.23 | 0.20 | 0.22 | 0.21 | 7.46 | ppb |
| Molybdenum | 95-1 | 0.22 | 0.26 | 0.24 | 0.24 | 8.06 | ppb |
| Molybdenum | 96-1 | 0.23 | 0.21 | 0.22 | 0.22 | 5.14 | ppb |
| Molybdenum | 97-1 | 0.26 | 0.24 | 0.23 | 0.24 | 5.20 | ppb |
| Molybdenum | 98-1 | 0.21 | 0.22 | 0.23 | 0.22 | 3.39 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.06 | 0.06 | 0.06 | 0.06 | 7.30 | ppb |
| Phosphorus | 31-2 | -24.41 | -25.98 | -20.54 | -23.64 | | ppb |
| Potassium | 39-2 | 1535.32 | 1549.85 | 1523.84 | 1536.34 | 0.85 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 120 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 0.11 | 0.43 | 0.20 | 0.25 | 64.64 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.29 | 0.25 | -0.65 | -0.23 | | ppb |
| Silicon | 28-1 | 2570.79 | 2682.15 | 2646.83 | 2633.25 | 2.16 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.57 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.26 | ppb |
| Sodium | 23-2 | 57380.30 | 56848.28 | 57844.15 | 57357.58 | 0.87 | ppb |
| Strontium | 86-1 | 4443.12 | 4481.81 | 4525.16 | 4483.36 | 0.92 | ppb |
| Strontium | 88-1 | 4392.80 | 4439.23 | 4500.19 | 4444.07 | 1.21 | ppb |
| Sulfur | 34-1 | 141032.50 | 143457.48 | 142064.95 | 142184.97 | 0.86 | ppb |
| Terbium | 159-1 | | | | 118 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.02 | 0.03 | 13.63 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.02 | 0.03 | 15.35 | ppb |
| Tin | 118-1 | 0.05 | 0.06 | 0.07 | 0.06 | 20.07 | ppb |
| Titanium | 47-1 | 0.21 | 0.22 | 0.23 | 0.22 | 3.64 | ppb |
| Uranium | 238-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.28 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 16.96 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 119 | | % |
| Yttrium | 89-2 | | | | 113 | | % |
| Zinc | 66-2 | 0.71 | 0.50 | 0.59 | 0.60 | 17.82 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.00 | 0.01 | 15.39 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 41.23 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20.61 | 17.66 | 18.41 | 18.90 | 8.12 | ppb |
| Antimony | 121-1 | 0.22 | 0.25 | 0.24 | 0.24 | 6.42 | ppb |
| Arsenic | 75-2 | 1.85 | 1.89 | 2.06 | 1.93 | 5.82 | ppb |
| Barium | 135-1 | 30.31 | 31.14 | 31.59 | 31.01 | 2.10 | ppb |
| Barium | 137-1 | 30.71 | 31.94 | 31.86 | 31.50 | 2.19 | ppb |
| Beryllium | 9-1 | 0.04 | 0.05 | 0.05 | 0.05 | 6.10 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.48 | 0.29 | 0.50 | 0.42 | 27.22 | ppb |
| Cadmium | 106-1 | 0.10 | -0.33 | 0.41 | 0.06 | 611.50 | ppb |
| Cadmium | 111-1 | 0.07 | 0.03 | 0.09 | 0.06 | 43.78 | ppb |
| Calcium | 43-1 | 33070.17 | 34446.71 | 34912.73 | 34143.20 | 2.81 | ppb |
| Calcium | 44-1 | 32862.06 | 33516.39 | 33898.53 | 33425.66 | 1.57 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.64 | 1.61 | 1.70 | 1.65 | 2.87 | ppb |
| Cobalt | 59-2 | 0.09 | 0.10 | 0.09 | 0.09 | 5.26 | ppb |
| Copper | 63-2 | 3.27 | 3.24 | 3.28 | 3.26 | 0.72 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 190.67 | 191.16 | 186.16 | 189.33 | 1.46 | ppb |
| Iron | 56-2 | 188.74 | 188.20 | 187.55 | 188.16 | 0.32 | ppb |
| Iron | 57-2 | 195.40 | 184.94 | 187.80 | 189.38 | 2.86 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.63 | 0.66 | 0.68 | 0.65 | 4.03 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.62 | 0.64 | 0.64 | 0.63 | 2.02 | ppb |
| Lead | 208-1 | 0.63 | 0.65 | 0.66 | 0.64 | 2.40 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 39120.37 | 39259.84 | 37872.99 | 38751.06 | 1.97 | ppb |
| Manganese | 55-2 | 53.08 | 52.14 | 53.01 | 52.74 | 1.00 | ppb |
| Molybdenum | 94-1 | 22.46 | 22.91 | 23.31 | 22.89 | 1.85 | ppb |
| Molybdenum | 95-1 | 26.53 | 27.53 | 27.91 | 27.32 | 2.60 | ppb |
| Molybdenum | 96-1 | 26.34 | 26.49 | 26.90 | 26.58 | 1.10 | ppb |
| Molybdenum | 97-1 | 27.32 | 27.53 | 27.91 | 27.59 | 1.08 | ppb |
| Molybdenum | 98-1 | 26.50 | 27.26 | 27.52 | 27.09 | 1.95 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.92 | 3.91 | 4.00 | 3.95 | 1.32 | ppb |
| Phosphorus | 31-2 | 43.34 | 33.99 | 43.97 | 40.43 | 13.82 | ppb |
| Potassium | 39-2 | 58246.02 | 56141.68 | 56569.55 | 56985.75 | 1.95 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 1.02 | 1.24 | 1.21 | 1.16 | 10.37 | ppb |
| Selenium | 77-2 | 0.00 | 1.38 | 0.68 | 0.69 | 100.17 | ppb |
| Selenium | 78-2 | 0.42 | 0.19 | -0.01 | 0.20 | 106.70 | ppb |
| Silicon | 28-1 | 8216.49 | 8284.02 | 8453.12 | 8317.88 | 1.47 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.03 | 0.03 | 5.78 | ppb |
| Silver | 109-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.10 | ppb |
| Sodium | 23-2 | 40164.81 | 39184.21 | 38647.36 | 39332.13 | 1.96 | ppb |
| Strontium | 86-1 | 330.89 | 339.08 | 341.06 | 337.01 | 1.60 | ppb |
| Strontium | 88-1 | 327.71 | 333.39 | 340.64 | 333.91 | 1.94 | ppb |
| Sulfur | 34-1 | 64931.84 | 65202.10 | 65860.20 | 65331.38 | 0.73 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.02 | 0.01 | 6.46 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.68 | ppb |
| Tin | 118-1 | 17.03 | 17.41 | 17.93 | 17.46 | 2.58 | ppb |
| Titanium | 47-1 | 1.07 | 1.08 | 1.06 | 1.07 | 0.73 | ppb |
| Uranium | 238-1 | 1.49 | 1.58 | 1.58 | 1.55 | 3.33 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1.16 | 1.13 | 1.15 | 1.15 | 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 | | | | 100 | | % |
| Zinc | 66-2 | 314.40 | 311.64 | 309.21 | 311.75 | 0.83 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.53 | ppb |
| Zirconium | 91-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.66 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11.73 | 14.21 | 12.63 | 12.86 | 9.74 | ppb |
| Antimony | 121-1 | 0.09 | 0.09 | 0.08 | 0.09 | 9.74 | ppb |
| Arsenic | 75-2 | 2.07 | 1.91 | 2.03 | 2.00 | 4.12 | ppb |
| Barium | 135-1 | 94.10 | 96.75 | 93.44 | 94.76 | 1.85 | ppb |
| Barium | 137-1 | 94.27 | 97.34 | 94.06 | 95.23 | 1.93 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.03 | 0.04 | 19.40 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.09 | 0.14 | 0.13 | 0.12 | 19.29 | ppb |
| Cadmium | 106-1 | -0.59 | 0.61 | -0.39 | -0.13 | | ppb |
| Cadmium | 111-1 | -0.03 | 0.06 | -0.03 | 0.00 | | ppb |
| Calcium | 43-1 | 157787.58 | 156942.80 | 153988.06 | 156239.48 | 1.28 | ppb |
| Calcium | 44-1 | 152191.71 | 151295.39 | 148813.44 | 150766.85 | 1.16 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.95 | 1.01 | 1.04 | 1.00 | 4.32 | ppb |
| Cobalt | 59-2 | 0.18 | 0.19 | 0.17 | 0.18 | 5.53 | ppb |
| Copper | 63-2 | 0.71 | 0.77 | 0.81 | 0.76 | 6.11 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 921.56 | 939.20 | 929.40 | 930.05 | 0.95 | ppb |
| Iron | 56-2 | 968.80 | 979.92 | 961.88 | 970.20 | 0.94 | ppb |
| Iron | 57-2 | 928.02 | 933.11 | 940.49 | 933.87 | 0.67 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.24 | 0.23 | 0.21 | 0.22 | 5.57 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.22 | 0.22 | 0.20 | 0.21 | 5.49 | ppb |
| Lead | 208-1 | 0.23 | 0.22 | 0.21 | 0.22 | 4.12 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 39399.69 | 39045.28 | 38387.64 | 38944.20 | 1.32 | ppb |
| Manganese | 55-2 | 69.52 | 70.11 | 68.25 | 69.29 | 1.36 | ppb |
| Molybdenum | 94-1 | 6.34 | 6.59 | 6.38 | 6.44 | 2.14 | ppb |
| Molybdenum | 95-1 | 7.52 | 7.65 | 7.43 | 7.53 | 1.49 | ppb |
| Molybdenum | 96-1 | 7.30 | 7.46 | 7.26 | 7.34 | 1.49 | ppb |
| Molybdenum | 97-1 | 7.58 | 7.69 | 7.40 | 7.56 | 1.97 | ppb |
| Molybdenum | 98-1 | 7.48 | 7.59 | 7.37 | 7.48 | 1.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.21 | 2.20 | 2.19 | 2.20 | 0.64 | ppb |
| Phosphorus | 31-2 | 83.53 | 60.38 | 50.99 | 64.96 | 25.78 | ppb |
| Potassium | 39-2 | 4485.35 | 4517.25 | 4496.99 | 4499.86 | 0.36 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 0.17 | 0.21 | 0.40 | 0.26 | 48.51 | ppb |
| Selenium | 77-2 | 0.00 | 0.69 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.20 | 0.00 | 0.00 | -0.07 | | ppb |
| Silicon | 28-1 | 8730.08 | 8939.97 | 8560.27 | 8743.44 | 2.18 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 15.85 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.99 | ppb |
| Sodium | 23-2 | 10797.77 | 10901.15 | 10743.43 | 10814.12 | 0.74 | ppb |
| Strontium | 86-1 | 16003.96 | 16604.63 | 15631.70 | 16080.10 | 3.05 | ppb |
| Strontium | 88-1 | 16024.02 | 16559.43 | 15597.39 | 16060.28 | 3.00 | ppb |
| Sulfur | 34-1 | 115655.29 | 114537.43 | 112011.10 | 114067.94 | 1.64 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 30.51 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.81 | ppb |
| Tin | 118-1 | 0.41 | 0.40 | 0.38 | 0.40 | 3.20 | ppb |
| Titanium | 47-1 | 1.15 | 1.19 | 1.10 | 1.15 | 3.97 | ppb |
| Uranium | 238-1 | 2.03 | 2.05 | 1.99 | 2.02 | 1.45 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1.09 | 1.15 | 1.08 | 1.11 | 3.15 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 0.81 | 0.82 | 0.95 | 0.86 | 9.23 | ppb |
| Zirconium | 90-1 | 0.11 | 0.12 | 0.14 | 0.12 | 10.64 | ppb |
| Zirconium | 91-1 | 0.12 | 0.12 | 0.12 | 0.12 | 2.60 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 13.43 | 10.92 | 13.08 | 12.48 | 10.90 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.47 | ppb |
| Arsenic | 75-2 | 0.23 | 0.30 | 0.28 | 0.27 | 13.61 | ppb |
| Barium | 135-1 | 35.79 | 36.58 | 36.45 | 36.27 | 1.17 | ppb |
| Barium | 137-1 | 36.13 | 37.14 | 36.29 | 36.52 | 1.48 | ppb |
| Beryllium | 9-1 | 0.03 | 0.04 | 0.03 | 0.03 | 3.45 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.05 | -0.01 | 0.04 | 104.27 | ppb |
| Cadmium | 106-1 | -1.38 | -0.44 | -0.75 | -0.86 | | ppb |
| Cadmium | 111-1 | -0.11 | -0.03 | -0.06 | -0.07 | | ppb |
| Calcium | 43-1 | 416150.96 | 419676.15 | 427626.54 | 421151.22 | 1.40 | ppb |
| Calcium | 44-1 | 409940.93 | 411988.41 | 425582.91 | 415837.42 | 2.04 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.09 | 0.07 | 0.12 | 0.09 | 27.02 | ppb |
| Cobalt | 59-2 | 0.13 | 0.11 | 0.13 | 0.12 | 7.73 | ppb |
| Copper | 63-2 | 0.06 | 0.07 | 0.14 | 0.09 | 50.54 | 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 | | | | 101 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 1191.31 | 1138.30 | 1177.90 | 1169.17 | 2.36 | ppb |
| Iron | 56-2 | 1262.68 | 1184.89 | 1252.92 | 1233.49 | 3.44 | ppb |
| Iron | 57-2 | 1229.78 | 1127.65 | 1204.60 | 1187.34 | 4.48 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.13 | 0.13 | 0.12 | 7.45 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.14 | 0.15 | 0.13 | 11.91 | ppb |
| Lead | 208-1 | 0.12 | 0.13 | 0.14 | 0.13 | 5.30 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 119111.04 | 109568.73 | 114262.85 | 114314.20 | 4.17 | ppb |
| Manganese | 55-2 | 167.54 | 157.76 | 166.53 | 163.95 | 3.28 | ppb |
| Molybdenum | 94-1 | 0.57 | 0.57 | 0.54 | 0.56 | 3.19 | ppb |
| Molybdenum | 95-1 | 0.37 | 0.36 | 0.35 | 0.36 | 2.29 | ppb |
| Molybdenum | 96-1 | 0.36 | 0.36 | 0.35 | 0.36 | 1.64 | ppb |
| Molybdenum | 97-1 | 0.34 | 0.33 | 0.33 | 0.33 | 1.47 | ppb |
| Molybdenum | 98-1 | 0.35 | 0.34 | 0.33 | 0.34 | 2.86 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.19 | 0.15 | 0.17 | 0.17 | 12.91 | ppb |
| Phosphorus | 31-2 | 11.51 | -2.54 | 15.30 | 8.09 | 116.23 | ppb |
| Potassium | 39-2 | 3022.70 | 2865.32 | 2975.54 | 2954.52 | 2.73 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.50 | 0.59 | -0.02 | 0.36 | 91.34 | ppb |
| Selenium | 77-2 | 0.00 | 1.34 | 0.69 | 0.68 | 99.13 | ppb |
| Selenium | 78-2 | 0.01 | -0.62 | 0.00 | -0.20 | | ppb |
| Silicon | 28-1 | 5990.40 | 5978.23 | 6116.81 | 6028.48 | 1.27 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.49 | ppb |
| Silver | 109-1 | 0.00 | 0.01 | 0.01 | 0.01 | 50.26 | ppb |
| Sodium | 23-2 | 22717.88 | 21802.34 | 22189.32 | 22236.51 | 2.07 | ppb |
| Strontium | 86-1 | 11432.14 | 11813.75 | 11737.33 | 11661.08 | 1.73 | ppb |
| Strontium | 88-1 | 11439.90 | 11658.09 | 11727.37 | 11608.45 | 1.29 | ppb |
| Sulfur | 34-1 | 448315.03 | 449264.90 | 458499.63 | 452026.52 | 1.24 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.64 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.83 | ppb |
| Tin | 118-1 | 0.47 | 0.48 | 0.47 | 0.48 | 1.12 | ppb |
| Titanium | 47-1 | 0.74 | 0.74 | 0.90 | 0.79 | 11.54 | ppb |
| Uranium | 238-1 | 0.15 | 0.16 | 0.16 | 0.16 | 2.67 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.13 | 0.13 | 0.11 | 0.12 | 6.57 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 2.00 | 1.91 | 1.98 | 1.96 | 2.36 | ppb |
| Zirconium | 90-1 | 0.14 | 0.14 | 0.14 | 0.14 | 0.88 | ppb |
| Zirconium | 91-1 | 0.14 | 0.16 | 0.15 | 0.15 | 7.42 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 51.42 | 56.17 | 59.49 | 55.70 | 7.28 | ppb |
| Antimony | 121-1 | 0.59 | 0.64 | 0.55 | 0.59 | 7.08 | ppb |
| Arsenic | 75-2 | 1.43 | 1.81 | 1.72 | 1.65 | 12.04 | ppb |
| Barium | 135-1 | 31.85 | 35.47 | 32.00 | 33.10 | 6.19 | ppb |
| Barium | 137-1 | 32.17 | 35.78 | 31.63 | 33.19 | 6.80 | ppb |
| Beryllium | 9-1 | 0.03 | 0.04 | 0.04 | 0.04 | 14.21 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.47 | 0.61 | 0.54 | 0.54 | 13.14 | ppb |
| Cadmium | 106-1 | 0.72 | 0.26 | 0.37 | 0.45 | 52.87 | ppb |
| Cadmium | 111-1 | 0.14 | 0.13 | 0.11 | 0.13 | 10.91 | ppb |
| Calcium | 43-1 | 55614.23 | 59475.80 | 55359.76 | 56816.60 | 4.06 | ppb |
| Calcium | 44-1 | 54410.52 | 59816.42 | 54341.13 | 56189.36 | 5.59 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.36 | 0.41 | 0.47 | 0.41 | 12.71 | ppb |
| Cobalt | 59-2 | 1.62 | 1.76 | 1.77 | 1.71 | 4.91 | ppb |
| Copper | 63-2 | 5.16 | 5.64 | 5.68 | 5.49 | 5.27 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 54-2 | 650.27 | 696.38 | 711.20 | 685.95 | 4.63 | ppb |
| Iron | 56-2 | 697.41 | 733.11 | 743.31 | 724.61 | 3.33 | ppb |
| Iron | 57-2 | 653.03 | 698.46 | 715.76 | 689.08 | 4.70 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.81 | 2.05 | 1.79 | 1.88 | 7.49 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.72 | 1.95 | 1.74 | 1.80 | 6.85 | ppb |
| Lead | 208-1 | 1.75 | 1.96 | 1.74 | 1.82 | 6.73 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 39732.32 | 42198.50 | 43928.88 | 41953.23 | 5.03 | ppb |
| Manganese | 55-2 | 85.29 | 90.94 | 93.65 | 89.96 | 4.74 | ppb |
| Molybdenum | 94-1 | 33.77 | 36.60 | 33.56 | 34.64 | 4.90 | ppb |
| Molybdenum | 95-1 | 40.74 | 43.93 | 40.36 | 41.68 | 4.71 | ppb |
| Molybdenum | 96-1 | 39.76 | 43.39 | 39.14 | 40.76 | 5.64 | ppb |
| Molybdenum | 97-1 | 40.43 | 44.85 | 40.41 | 41.90 | 6.11 | ppb |
| Molybdenum | 98-1 | 40.02 | 43.72 | 40.00 | 41.25 | 5.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 14.19 | 14.70 | 15.02 | 14.64 | 2.88 | ppb |
| Phosphorus | 31-2 | 20.08 | 20.23 | 18.62 | 19.64 | 4.52 | ppb |
| Potassium | 39-2 | 29828.18 | 32694.00 | 33526.01 | 32016.06 | 6.06 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.95 | 0.86 | 1.44 | 1.08 | 28.87 | ppb |
| Selenium | 77-2 | 0.60 | 0.65 | 0.00 | 0.42 | 86.79 | ppb |
| Selenium | 78-2 | 0.39 | -0.25 | 0.34 | 0.16 | 223.29 | ppb |
| Silicon | 28-1 | 3013.81 | 3287.86 | 2990.52 | 3097.40 | 5.34 | ppb |
| Silver | 107-1 | 0.10 | 0.10 | 0.09 | 0.10 | 5.56 | ppb |
| Silver | 109-1 | 0.10 | 0.11 | 0.09 | 0.10 | 9.85 | ppb |
| Sodium | 23-2 | 27058.43 | 28913.79 | 29421.61 | 28464.61 | 4.37 | ppb |
| Strontium | 86-1 | 486.40 | 537.05 | 481.45 | 501.63 | 6.13 | ppb |
| Strontium | 88-1 | 484.90 | 529.66 | 480.91 | 498.49 | 5.43 | ppb |
| Sulfur | 34-1 | 61867.98 | 66304.61 | 61137.21 | 63103.27 | 4.43 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.05 | 0.07 | 0.05 | 0.06 | 16.63 | ppb |
| Thallium | 205-1 | 0.05 | 0.06 | 0.06 | 0.06 | 7.69 | ppb |
| Tin | 118-1 | 0.49 | 0.59 | 0.49 | 0.52 | 10.92 | ppb |
| Titanium | 47-1 | 0.67 | 0.70 | 0.61 | 0.66 | 6.44 | ppb |
| Uranium | 238-1 | 4.62 | 5.08 | 4.54 | 4.74 | 6.10 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1.28 | 1.38 | 1.43 | 1.36 | 5.56 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 1.59 | 1.78 | 1.74 | 1.70 | 5.74 | ppb |
| Zirconium | 90-1 | 0.07 | 0.08 | 0.08 | 0.08 | 7.83 | ppb |
| Zirconium | 91-1 | 0.07 | 0.08 | 0.08 | 0.08 | 5.78 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.56 | 5.03 | 4.64 | 4.74 | 5.30 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.26 | ppb |
| Arsenic | 75-2 | 0.19 | 0.06 | 0.14 | 0.13 | 48.87 | ppb |
| Barium | 135-1 | 16.34 | 16.41 | 16.68 | 16.48 | 1.06 | ppb |
| Barium | 137-1 | 16.50 | 16.59 | 16.85 | 16.65 | 1.10 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 10.16 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 86 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.06 | 0.01 | 0.04 | 76.94 | ppb |
| Cadmium | 106-1 | -0.08 | 0.20 | -0.35 | -0.08 | | ppb |
| Cadmium | 111-1 | 0.00 | 0.02 | -0.02 | 0.00 | 1104.96 | ppb |
| Calcium | 43-1 | 436497.70 | 443039.29 | 441644.62 | 440393.87 | 0.78 | ppb |
| Calcium | 44-1 | 425412.35 | 434852.74 | 438702.89 | 432989.33 | 1.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.06 | 0.06 | 0.02 | 0.05 | 56.84 | ppb |
| Cobalt | 59-2 | 0.05 | 0.06 | 0.05 | 0.05 | 4.79 | ppb |
| Copper | 63-2 | 0.28 | 0.35 | 0.36 | 0.33 | 12.69 | 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 | | | | 104 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 1435.09 | 1403.61 | 1453.19 | 1430.63 | 1.75 | ppb |
| Iron | 56-2 | 1515.70 | 1438.97 | 1492.10 | 1482.26 | 2.65 | ppb |
| Iron | 57-2 | 1460.81 | 1423.66 | 1460.39 | 1448.29 | 1.47 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.14 | 0.15 | 0.14 | 11.26 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.13 | 0.15 | 0.16 | 0.15 | 10.84 | ppb |
| Lead | 208-1 | 0.13 | 0.14 | 0.15 | 0.14 | 8.15 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 155777.39 | 149777.42 | 156162.34 | 153905.72 | 2.33 | ppb |
| Manganese | 55-2 | 54.97 | 53.69 | 54.92 | 54.52 | 1.33 | ppb |
| Molybdenum | 94-1 | 0.68 | 0.68 | 0.68 | 0.68 | 0.37 | ppb |
| Molybdenum | 95-1 | 0.78 | 0.72 | 0.78 | 0.76 | 4.81 | ppb |
| Molybdenum | 96-1 | 0.68 | 0.69 | 0.74 | 0.70 | 4.93 | ppb |
| Molybdenum | 97-1 | 0.71 | 0.71 | 0.75 | 0.73 | 3.51 | ppb |
| Molybdenum | 98-1 | 0.69 | 0.69 | 0.71 | 0.70 | 1.36 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.29 | 0.27 | 0.26 | 0.27 | 5.16 | ppb |
| Phosphorus | 31-2 | -8.01 | -14.60 | -5.31 | -9.31 | | ppb |
| Potassium | 39-2 | 5110.36 | 4984.01 | 5105.27 | 5066.55 | 1.41 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 88 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 0.06 | 0.37 | 0.45 | 0.29 | 69.55 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.79 | 0.64 | -0.14 | -0.10 | | ppb |
| Silicon | 28-1 | 8307.10 | 8544.95 | 8801.82 | 8551.29 | 2.89 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.03 | 0.03 | 13.36 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 16.33 | ppb |
| Sodium | 23-2 | 201002.31 | 192966.27 | 201016.45 | 198328.34 | 2.34 | ppb |
| Strontium | 86-1 | 14414.90 | 14074.75 | 14854.87 | 14448.17 | 2.71 | ppb |
| Strontium | 88-1 | 14148.93 | 14284.97 | 14670.11 | 14368.00 | 1.88 | ppb |
| Sulfur | 34-1 | 461228.62 | 464483.60 | 467066.47 | 464259.56 | 0.63 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.20 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.57 | ppb |
| Tin | 118-1 | 0.55 | 0.59 | 0.55 | 0.56 | 3.92 | ppb |
| Titanium | 47-1 | 0.76 | 0.75 | 0.78 | 0.76 | 1.95 | ppb |
| Uranium | 238-1 | 0.25 | 0.25 | 0.25 | 0.25 | 1.40 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.03 | 0.03 | 9.08 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 0.72 | 0.65 | 0.78 | 0.72 | 9.00 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.92 | ppb |
| Zirconium | 91-1 | 0.04 | 0.04 | 0.02 | 0.03 | 25.03 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.48 | 4.03 | 4.03 | 4.18 | 6.21 | ppb |
| Antimony | 121-1 | 0.01 | 0.02 | 0.01 | 0.02 | 29.06 | ppb |
| Arsenic | 75-2 | 0.13 | 0.10 | 0.17 | 0.14 | 26.46 | ppb |
| Barium | 135-1 | 16.54 | 17.28 | 16.08 | 16.63 | 3.65 | ppb |
| Barium | 137-1 | 16.65 | 17.37 | 16.22 | 16.75 | 3.46 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.19 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 87 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.07 | 0.04 | 0.04 | 85.21 | ppb |
| Cadmium | 106-1 | 0.85 | 0.26 | 0.35 | 0.49 | 65.20 | ppb |
| Cadmium | 111-1 | 0.07 | 0.02 | 0.03 | 0.04 | 65.07 | ppb |
| Calcium | 43-1 | 432584.64 | 445336.09 | 423912.91 | 433944.55 | 2.48 | ppb |
| Calcium | 44-1 | 429138.07 | 432464.45 | 411880.42 | 424494.31 | 2.60 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.21 | 0.21 | 0.19 | 0.20 | 5.57 | ppb |
| Cobalt | 59-2 | 0.05 | 0.06 | 0.05 | 0.05 | 7.05 | ppb |
| Copper | 63-2 | 3.43 | 3.56 | 3.54 | 3.51 | 1.99 | 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 | | | | 102 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 1523.97 | 1530.21 | 1532.44 | 1528.87 | 0.29 | ppb |
| Iron | 56-2 | 1599.20 | 1586.53 | 1589.96 | 1591.90 | 0.41 | ppb |
| Iron | 57-2 | 1517.81 | 1540.90 | 1543.24 | 1533.98 | 0.92 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.12 | 0.12 | 0.12 | 3.61 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.11 | 0.11 | 0.11 | 2.14 | ppb |
| Lead | 208-1 | 0.11 | 0.12 | 0.12 | 0.12 | 6.01 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 145168.24 | 148382.56 | 150800.54 | 148117.11 | 1.91 | ppb |
| Manganese | 55-2 | 52.30 | 51.67 | 52.78 | 52.25 | 1.07 | ppb |
| Molybdenum | 94-1 | 0.64 | 0.70 | 0.64 | 0.66 | 5.36 | ppb |
| Molybdenum | 95-1 | 0.73 | 0.78 | 0.71 | 0.74 | 5.13 | ppb |
| Molybdenum | 96-1 | 0.69 | 0.75 | 0.71 | 0.72 | 4.00 | ppb |
| Molybdenum | 97-1 | 0.72 | 0.71 | 0.70 | 0.71 | 1.12 | ppb |
| Molybdenum | 98-1 | 0.72 | 0.76 | 0.68 | 0.72 | 5.87 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.32 | 0.32 | 0.40 | 0.35 | 13.46 | ppb |
| Phosphorus | 31-2 | -14.86 | -2.24 | -10.87 | -9.32 | | ppb |
| Potassium | 39-2 | 4866.90 | 4888.35 | 4934.16 | 4896.47 | 0.70 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 0.62 | 0.21 | 0.26 | 0.36 | 60.65 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.74 | 0.25 | 173.21 | ppb |
| Selenium | 78-2 | -0.39 | -0.17 | -0.58 | -0.38 | | ppb |
| Silicon | 28-1 | 8483.03 | 8699.26 | 8287.15 | 8489.81 | 2.43 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.04 | 0.03 | 9.17 | ppb |
| Silver | 109-1 | 0.02 | 0.03 | 0.02 | 0.02 | 17.94 | ppb |
| Sodium | 23-2 | 192166.17 | 189503.68 | 191420.60 | 191030.15 | 0.72 | ppb |
| Strontium | 86-1 | 14007.25 | 14818.96 | 13930.62 | 14252.28 | 3.45 | ppb |
| Strontium | 88-1 | 13894.95 | 14430.14 | 13960.62 | 14095.24 | 2.07 | ppb |
| Sulfur | 34-1 | 453925.33 | 475633.52 | 450001.69 | 459853.51 | 3.00 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.55 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.29 | ppb |
| Tin | 118-1 | 0.52 | 0.59 | 0.52 | 0.54 | 6.95 | ppb |
| Titanium | 47-1 | 0.74 | 0.77 | 0.77 | 0.76 | 1.94 | ppb |
| Uranium | 238-1 | 0.24 | 0.26 | 0.24 | 0.25 | 5.21 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.04 | 0.03 | 0.03 | 17.57 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 96 | | % |
| Zinc | 66-2 | 1.03 | 1.03 | 1.05 | 1.04 | 0.76 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 12.98 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.28 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.08 | 4.58 | 3.46 | 3.71 | 20.99 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 19.08 | ppb |
| Arsenic | 75-2 | 0.02 | 0.03 | 0.03 | 0.03 | 21.77 | ppb |
| Barium | 135-1 | 3.34 | 3.31 | 3.42 | 3.36 | 1.71 | ppb |
| Barium | 137-1 | 3.40 | 3.34 | 3.43 | 3.39 | 1.33 | ppb |
| Beryllium | 9-1 | 0.02 | 0.03 | 0.03 | 0.03 | 8.26 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.04 | 0.00 | 0.00 | 835.60 | ppb |
| Cadmium | 106-1 | 0.46 | 0.80 | 1.21 | 0.82 | 45.91 | ppb |
| Cadmium | 111-1 | 0.04 | 0.06 | 0.09 | 0.07 | 41.58 | ppb |
| Calcium | 43-1 | 88363.29 | 87441.71 | 88476.27 | 88093.76 | 0.64 | ppb |
| Calcium | 44-1 | 85970.24 | 87214.38 | 86828.56 | 86671.06 | 0.73 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 38.14 | ppb |
| Copper | 63-2 | 0.45 | 0.49 | 0.43 | 0.46 | 6.64 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 275.84 | 295.22 | 276.00 | 282.35 | 3.95 | ppb |
| Iron | 56-2 | 278.68 | 293.70 | 278.66 | 283.68 | 3.06 | ppb |
| Iron | 57-2 | 278.22 | 292.77 | 280.46 | 283.82 | 2.76 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.06 | 0.06 | 0.07 | 13.16 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.07 | 0.07 | 0.06 | 0.07 | 3.57 | ppb |
| Lead | 208-1 | 0.07 | 0.07 | 0.07 | 0.07 | 3.63 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 29334.62 | 31463.15 | 29815.33 | 30204.37 | 3.70 | ppb |
| Manganese | 55-2 | 12.83 | 13.49 | 12.79 | 13.04 | 2.99 | ppb |
| Molybdenum | 94-1 | 0.15 | 0.15 | 0.17 | 0.16 | 4.50 | ppb |
| Molybdenum | 95-1 | 0.17 | 0.16 | 0.17 | 0.17 | 1.58 | ppb |
| Molybdenum | 96-1 | 0.16 | 0.14 | 0.17 | 0.15 | 10.41 | ppb |
| Molybdenum | 97-1 | 0.17 | 0.15 | 0.15 | 0.16 | 8.62 | ppb |
| Molybdenum | 98-1 | 0.14 | 0.15 | 0.16 | 0.15 | 5.17 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.17 | 0.21 | 0.23 | 0.20 | 14.58 | ppb |
| Phosphorus | 31-2 | -21.40 | -20.20 | -24.23 | -21.94 | | ppb |
| Potassium | 39-2 | 993.40 | 1065.95 | 1001.26 | 1020.20 | 3.90 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 0.22 | 0.20 | -0.16 | 0.09 | 245.69 | ppb |
| Selenium | 77-2 | 1.42 | 0.00 | 0.00 | 0.47 | 173.21 | ppb |
| Selenium | 78-2 | -1.01 | 0.26 | 0.01 | -0.25 | | ppb |
| Silicon | 28-1 | 1720.15 | 1706.47 | 1716.01 | 1714.21 | 0.41 | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.01 | 0.02 | 21.55 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.52 | ppb |
| Sodium | 23-2 | 37103.24 | 39616.02 | 37963.13 | 38227.46 | 3.34 | ppb |
| Strontium | 86-1 | 2841.95 | 2833.15 | 2909.77 | 2861.62 | 1.47 | ppb |
| Strontium | 88-1 | 2807.77 | 2827.40 | 2910.96 | 2848.71 | 1.92 | ppb |
| Sulfur | 34-1 | 95686.62 | 93158.99 | 94246.10 | 94363.90 | 1.34 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.00 | 0.01 | 32.46 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.94 | ppb |
| Tin | 118-1 | 0.21 | 0.19 | 0.20 | 0.20 | 3.59 | ppb |
| Titanium | 47-1 | 0.17 | 0.15 | 0.19 | 0.17 | 13.39 | ppb |
| Uranium | 238-1 | 0.04 | 0.05 | 0.05 | 0.05 | 5.19 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.00 | 0.01 | 0.01 | 34.95 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 0.51 | 0.73 | 0.43 | 0.55 | 28.11 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.00 | 0.01 | 34.57 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.74 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1804.26 | 1826.03 | 1816.50 | 1815.60 | 0.60 | ppb |
| Antimony | 121-1 | 98.58 | 104.12 | 102.91 | 101.87 | 2.86 | ppb |
| Arsenic | 75-2 | 39.83 | 40.77 | 40.24 | 40.28 | 1.16 | ppb |
| Barium | 135-1 | 1934.90 | 2069.49 | 2042.56 | 2015.65 | 3.53 | ppb |
| Barium | 137-1 | 1894.24 | 2077.04 | 2086.04 | 2019.10 | 5.36 | ppb |
| Beryllium | 9-1 | 45.86 | 48.82 | 47.96 | 47.55 | 3.20 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 91 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 36.49 | 39.17 | 38.62 | 38.09 | 3.71 | ppb |
| Cadmium | 106-1 | 36.32 | 38.45 | 37.68 | 37.48 | 2.88 | ppb |
| Cadmium | 111-1 | 43.91 | 47.45 | 47.06 | 46.14 | 4.20 | ppb |
| Calcium | 43-1 | 396342.73 | 430811.49 | 439131.79 | 422095.34 | 5.37 | ppb |
| Calcium | 44-1 | 386039.55 | 426243.89 | 434258.21 | 415513.89 | 6.22 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 196.42 | 198.79 | 200.20 | 198.47 | 0.96 | ppb |
| Cobalt | 59-2 | 508.54 | 509.68 | 502.74 | 506.98 | 0.73 | ppb |
| Copper | 63-2 | 237.94 | 240.00 | 238.89 | 238.94 | 0.43 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 2454.73 | 2444.56 | 2447.50 | 2448.93 | 0.21 | ppb |
| Iron | 56-2 | 2351.63 | 2355.66 | 2405.39 | 2370.89 | 1.26 | ppb |
| Iron | 57-2 | 2256.44 | 2296.26 | 2300.78 | 2284.49 | 1.07 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 18.31 | 19.74 | 19.65 | 19.23 | 4.16 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 18.32 | 19.63 | 19.64 | 19.20 | 3.97 | ppb |
| Lead | 208-1 | 18.29 | 19.65 | 19.70 | 19.21 | 4.15 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 139403.33 | 143041.05 | 141316.87 | 141253.75 | 1.29 | ppb |
| Manganese | 55-2 | 528.09 | 527.80 | 528.00 | 527.96 | 0.03 | ppb |
| Molybdenum | 94-1 | 0.65 | 0.69 | 0.69 | 0.67 | 3.47 | ppb |
| Molybdenum | 95-1 | 0.67 | 0.72 | 0.75 | 0.71 | 5.84 | ppb |
| Molybdenum | 96-1 | 0.64 | 0.66 | 0.71 | 0.67 | 5.12 | ppb |
| Molybdenum | 97-1 | 0.65 | 0.74 | 0.72 | 0.70 | 7.05 | ppb |
| Molybdenum | 98-1 | 0.66 | 0.73 | 0.72 | 0.71 | 5.38 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 471.41 | 474.00 | 470.16 | 471.85 | 0.41 | ppb |
| Phosphorus | 31-2 | -14.68 | -5.27 | -5.45 | -8.47 | | ppb |
| Potassium | 39-2 | 4638.79 | 4666.00 | 4612.55 | 4639.11 | 0.58 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 17.60 | 19.74 | 19.36 | 18.90 | 6.04 | ppb |
| Selenium | 77-2 | 23.24 | 18.89 | 18.68 | 20.27 | 12.69 | ppb |
| Selenium | 78-2 | 18.45 | 19.12 | 19.50 | 19.02 | 2.78 | ppb |
| Silicon | 28-1 | 7582.02 | 8407.34 | 8511.57 | 8166.98 | 6.24 | ppb |
| Silver | 107-1 | 41.83 | 45.61 | 45.50 | 44.31 | 4.85 | ppb |
| Silver | 109-1 | 42.38 | 46.52 | 46.17 | 45.02 | 5.09 | ppb |
| Sodium | 23-2 | 181853.45 | 181678.08 | 179692.31 | 181074.61 | 0.66 | ppb |
| Strontium | 86-1 | 13187.71 | 13913.69 | 13923.83 | 13675.08 | 3.09 | ppb |
| Strontium | 88-1 | 13003.72 | 13622.36 | 13940.64 | 13522.24 | 3.52 | ppb |
| Sulfur | 34-1 | 419596.29 | 453863.46 | 460379.35 | 444613.03 | 4.93 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 46.11 | 49.36 | 50.07 | 48.51 | 4.35 | ppb |
| Thallium | 205-1 | 48.82 | 52.55 | 51.90 | 51.09 | 3.90 | ppb |
| Tin | 118-1 | 0.53 | 0.55 | 0.55 | 0.54 | 2.49 | ppb |
| Titanium | 47-1 | 0.73 | 0.78 | 0.79 | 0.77 | 4.39 | ppb |
| Uranium | 238-1 | 0.23 | 0.24 | 0.24 | 0.24 | 3.68 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 519.83 | 512.82 | 524.96 | 519.20 | 1.17 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 454.32 | 455.91 | 458.14 | 456.12 | 0.42 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.33 | ppb |
| Zirconium | 91-1 | 0.06 | 0.06 | 0.06 | 0.06 | 3.54 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.53 | 0.24 | 0.55 | 0.44 | 39.45 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.00 | 0.01 | 31.53 | ppb |
| Arsenic | 75-2 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.06 | 0.03 | 0.03 | 0.04 | 40.35 | ppb |
| Barium | 137-1 | 0.05 | 0.04 | 0.03 | 0.04 | 27.98 | ppb |
| Beryllium | 9-1 | 0.04 | 0.03 | 0.03 | 0.03 | 17.29 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.04 | 0.03 | 0.03 | 0.01 | 404.56 | ppb |
| Cadmium | 106-1 | 0.85 | 0.89 | 0.81 | 0.85 | 4.82 | ppb |
| Cadmium | 111-1 | 0.07 | 0.07 | 0.07 | 0.07 | 4.09 | ppb |
| Calcium | 43-1 | 13.98 | 5.71 | 8.88 | 9.53 | 43.82 | ppb |
| Calcium | 44-1 | 16.45 | 10.69 | 11.02 | 12.72 | 25.42 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.12 | -0.08 | -0.13 | -0.11 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 19.27 | ppb |
| Copper | 63-2 | 0.43 | 0.43 | 0.43 | 0.43 | 0.25 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 54-2 | -0.13 | -0.16 | 0.29 | 0.00 | 16368.65 | ppb |
| Iron | 56-2 | 0.15 | 0.12 | 0.08 | 0.12 | 29.61 | ppb |
| Iron | 57-2 | -0.56 | -0.01 | 0.36 | -0.07 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.03 | 0.04 | 0.04 | 0.04 | 14.02 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.06 | 0.05 | 0.05 | 0.05 | 14.35 | ppb |
| Lead | 208-1 | 0.05 | 0.04 | 0.04 | 0.04 | 2.04 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | -8.11 | -8.42 | -7.83 | -8.12 | | ppb |
| Manganese | 55-2 | -0.02 | 0.04 | 0.00 | 0.01 | 391.86 | ppb |
| Molybdenum | 94-1 | 0.03 | 0.01 | 0.01 | 0.02 | 48.95 | ppb |
| Molybdenum | 95-1 | 0.01 | 0.01 | 0.02 | 0.01 | 9.91 | ppb |
| Molybdenum | 96-1 | 0.02 | 0.02 | 0.01 | 0.02 | 25.73 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.01 | 0.01 | 0.02 | 57.68 | ppb |
| Molybdenum | 98-1 | 0.01 | 0.02 | 0.01 | 0.02 | 17.42 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.12 | 0.15 | 0.11 | 0.13 | 15.44 | ppb |
| Phosphorus | 31-2 | -25.22 | -24.09 | -22.45 | -23.92 | | ppb |
| Potassium | 39-2 | 41.36 | 42.39 | 40.80 | 41.52 | 1.94 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.00 | 0.14 | -0.17 | -0.01 | | ppb |
| Selenium | 77-2 | 0.64 | 0.00 | 0.65 | 0.43 | 86.61 | ppb |
| Selenium | 78-2 | -0.07 | -0.63 | -0.82 | -0.51 | | ppb |
| Silicon | 28-1 | 2.77 | 2.82 | 2.87 | 2.82 | 1.78 | ppb |
| Silver | 107-1 | 0.04 | 0.03 | 0.03 | 0.03 | 17.22 | ppb |
| Silver | 109-1 | 0.03 | 0.03 | 0.02 | 0.03 | 14.99 | ppb |
| Sodium | 23-2 | 52.85 | 53.54 | 52.26 | 52.88 | 1.21 | ppb |
| Strontium | 86-1 | 0.51 | 0.30 | 0.31 | 0.37 | 31.53 | ppb |
| Strontium | 88-1 | 0.52 | 0.34 | 0.35 | 0.40 | 25.18 | ppb |
| Sulfur | 34-1 | 1327.37 | 1551.13 | 1632.83 | 1503.78 | 10.52 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.29 | ppb |
| Thallium | 205-1 | 0.01 | 0.02 | 0.01 | 0.01 | 16.38 | ppb |
| Tin | 118-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Titanium | 47-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.47 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 37.53 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -0.17 | -0.23 | -0.12 | -0.17 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 220.82 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 29.85 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 40.71 | 40.13 | 39.98 | 40.27 | 0.96 | ppb |
| Antimony | 121-1 | 4.26 | 4.25 | 4.19 | 4.24 | 0.85 | ppb |
| Arsenic | 75-2 | 2.18 | 2.42 | 1.92 | 2.18 | 11.56 | ppb |
| Barium | 135-1 | 20.25 | 20.99 | 20.76 | 20.67 | 1.82 | ppb |
| Barium | 137-1 | 20.75 | 21.04 | 20.85 | 20.88 | 0.69 | ppb |
| Beryllium | 9-1 | 2.09 | 2.15 | 2.15 | 2.13 | 1.58 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.91 | 2.11 | 2.10 | 2.04 | 5.61 | ppb |
| Cadmium | 106-1 | 2.47 | 3.11 | 2.84 | 2.81 | 11.44 | ppb |
| Cadmium | 111-1 | 2.19 | 2.32 | 2.24 | 2.25 | 2.85 | ppb |
| Calcium | 43-1 | 988.55 | 1021.64 | 1015.97 | 1008.72 | 1.75 | ppb |
| Calcium | 44-1 | 976.38 | 998.52 | 996.12 | 990.34 | 1.23 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4.18 | 4.15 | 4.16 | 4.16 | 0.47 | ppb |
| Cobalt | 59-2 | 2.11 | 2.17 | 2.19 | 2.16 | 1.73 | ppb |
| Copper | 63-2 | 4.66 | 4.83 | 4.77 | 4.75 | 1.86 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 54-2 | 418.42 | 422.15 | 419.33 | 419.97 | 0.46 | ppb |
| Iron | 56-2 | 435.89 | 437.42 | 430.52 | 434.61 | 0.83 | ppb |
| Iron | 57-2 | 420.55 | 418.80 | 412.08 | 417.14 | 1.07 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2.04 | 2.00 | 1.94 | 1.99 | 2.53 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.01 | 2.02 | 2.02 | 2.02 | 0.14 | ppb |
| Lead | 208-1 | 2.00 | 2.01 | 2.00 | 2.01 | 0.35 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 965.37 | 985.31 | 979.49 | 976.72 | 1.05 | ppb |
| Manganese | 55-2 | 2.08 | 2.21 | 2.26 | 2.18 | 4.14 | ppb |
| Molybdenum | 94-1 | 11.75 | 12.00 | 12.12 | 11.95 | 1.55 | ppb |
| Molybdenum | 95-1 | 9.88 | 10.09 | 10.02 | 10.00 | 1.06 | ppb |
| Molybdenum | 96-1 | 9.98 | 10.25 | 10.15 | 10.13 | 1.35 | ppb |
| Molybdenum | 97-1 | 10.01 | 9.99 | 10.27 | 10.09 | 1.56 | ppb |
| Molybdenum | 98-1 | 9.78 | 9.88 | 10.08 | 9.91 | 1.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.26 | 2.47 | 2.26 | 2.33 | 5.12 | ppb |
| Phosphorus | 31-2 | 16.28 | 16.04 | 48.99 | 27.10 | 69.95 | ppb |
| Potassium | 39-2 | 1013.65 | 1035.40 | 1040.06 | 1029.70 | 1.37 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 10.85 | 11.46 | 10.78 | 11.03 | 3.40 | ppb |
| Selenium | 77-2 | 6.58 | 8.47 | 9.59 | 8.22 | 18.49 | ppb |
| Selenium | 78-2 | 12.00 | 10.93 | 10.32 | 11.08 | 7.68 | ppb |
| Silicon | 28-1 | 17.07 | 16.29 | 16.88 | 16.74 | 2.43 | ppb |
| Silver | 107-1 | 2.07 | 2.15 | 2.12 | 2.11 | 2.01 | ppb |
| Silver | 109-1 | 2.12 | 2.16 | 2.17 | 2.15 | 1.05 | ppb |
| Sodium | 23-2 | 1057.91 | 1074.28 | 1074.98 | 1069.06 | 0.90 | ppb |
| Strontium | 86-1 | 1.97 | 2.09 | 2.08 | 2.05 | 3.21 | ppb |
| Strontium | 88-1 | 2.01 | 2.06 | 2.09 | 2.05 | 2.04 | ppb |
| Sulfur | 34-1 | 1321.38 | 1371.66 | 1357.91 | 1350.32 | 1.92 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 2.00 | 1.98 | 1.98 | 1.99 | 0.71 | ppb |
| Thallium | 205-1 | 2.02 | 2.01 | 2.00 | 2.01 | 0.67 | ppb |
| Tin | 118-1 | 10.56 | 10.85 | 10.57 | 10.66 | 1.54 | ppb |
| Titanium | 47-1 | 2.63 | 2.58 | 2.68 | 2.63 | 1.84 | ppb |
| Uranium | 238-1 | 1.84 | 1.85 | 1.84 | 1.84 | 0.18 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10.08 | 10.43 | 10.57 | 10.36 | 2.43 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 10.20 | 10.25 | 9.97 | 10.14 | 1.47 | ppb |
| Zirconium | 90-1 | 1.98 | 1.99 | 2.03 | 2.00 | 1.18 | ppb |
| Zirconium | 91-1 | 1.95 | 2.05 | 1.96 | 1.98 | 2.66 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 591.32 | 574.16 | 591.82 | 585.77 | 1.72 | ppb |
| Antimony | 121-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.60 | ppb |
| Arsenic | 75-2 | 2.07 | 2.31 | 2.07 | 2.15 | 6.63 | ppb |
| Barium | 135-1 | 41.81 | 42.40 | 42.78 | 42.33 | 1.15 | ppb |
| Barium | 137-1 | 42.24 | 42.43 | 42.32 | 42.33 | 0.24 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.01 | 0.02 | 19.12 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.62 | 0.57 | 0.61 | 0.60 | 4.55 | ppb |
| Cadmium | 106-1 | 1.36 | 0.85 | 0.49 | 0.90 | 48.66 | ppb |
| Cadmium | 111-1 | 0.13 | 0.09 | 0.06 | 0.09 | 37.74 | ppb |
| Calcium | 43-1 | 134004.93 | 135781.71 | 134009.37 | 134598.67 | 0.76 | ppb |
| Calcium | 44-1 | 130899.86 | 134498.25 | 132751.90 | 132716.67 | 1.36 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.15 | 0.10 | 0.13 | 0.13 | 16.99 | ppb |
| Cobalt | 59-2 | 0.12 | 0.13 | 0.11 | 0.12 | 7.80 | ppb |
| Copper | 63-2 | 0.73 | 0.72 | 0.73 | 0.72 | 0.91 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 27.72 | 28.63 | 27.96 | 28.10 | 1.67 | ppb |
| Iron | 56-2 | 28.25 | 28.22 | 28.29 | 28.26 | 0.12 | ppb |
| Iron | 57-2 | 32.16 | 31.83 | 30.50 | 31.50 | 2.79 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.22 | 0.21 | 0.24 | 0.22 | 7.03 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.23 | 0.20 | 0.22 | 0.22 | 6.23 | ppb |
| Lead | 208-1 | 0.22 | 0.22 | 0.23 | 0.22 | 2.14 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 16.11 | 16.16 | 16.44 | 16.24 | 1.12 | ppb |
| Manganese | 55-2 | 2.76 | 2.88 | 2.79 | 2.81 | 2.27 | ppb |
| Molybdenum | 94-1 | 36.03 | 35.93 | 36.44 | 36.13 | 0.74 | ppb |
| Molybdenum | 95-1 | 43.07 | 43.18 | 44.12 | 43.46 | 1.33 | ppb |
| Molybdenum | 96-1 | 41.68 | 42.52 | 43.09 | 42.43 | 1.68 | ppb |
| Molybdenum | 97-1 | 42.97 | 43.55 | 44.23 | 43.58 | 1.46 | ppb |
| Molybdenum | 98-1 | 42.26 | 42.81 | 43.31 | 42.79 | 1.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 166.17 | 164.67 | 165.66 | 165.50 | 0.46 | ppb |
| Phosphorus | 31-2 | 433.80 | 400.94 | 403.13 | 412.63 | 4.45 | ppb |
| Potassium | 39-2 | 62481.57 | 62407.71 | 63380.96 | 62756.74 | 0.86 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 1.67 | 1.89 | 1.57 | 1.71 | 9.42 | ppb |
| Selenium | 77-2 | 0.00 | 0.65 | 0.66 | 0.44 | 86.60 | ppb |
| Selenium | 78-2 | 0.89 | 0.52 | -0.43 | 0.32 | 210.44 | ppb |
| Silicon | 28-1 | 2313.04 | 2394.47 | 2362.87 | 2356.79 | 1.74 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 14.38 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.02 | 0.02 | 15.58 | ppb |
| Sodium | 23-2 | 32800.90 | 32305.12 | 31997.50 | 32367.84 | 1.25 | ppb |
| Strontium | 86-1 | 1326.46 | 1331.29 | 1339.70 | 1332.48 | 0.50 | ppb |
| Strontium | 88-1 | 1311.50 | 1335.38 | 1346.54 | 1331.14 | 1.34 | ppb |
| Sulfur | 34-1 | 13057.03 | 13072.71 | 12693.20 | 12940.98 | 1.66 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 36.17 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.21 | ppb |
| Tin | 118-1 | 0.73 | 0.77 | 0.75 | 0.75 | 3.02 | ppb |
| Titanium | 47-1 | 0.67 | 0.65 | 0.68 | 0.66 | 2.07 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.65 | 2.67 | 2.63 | 2.65 | 0.82 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 1.68 | 1.96 | 2.00 | 1.88 | 9.42 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.20 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.03 | 18.90 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 595.39 | 600.39 | 587.24 | 594.34 | 1.12 | ppb |
| Antimony | 121-1 | 0.08 | 0.09 | 0.10 | 0.09 | 6.87 | ppb |
| Arsenic | 75-2 | 2.48 | 2.52 | 2.36 | 2.45 | 3.42 | ppb |
| Barium | 135-1 | 42.22 | 42.31 | 43.16 | 42.56 | 1.22 | ppb |
| Barium | 137-1 | 42.37 | 42.29 | 43.91 | 42.86 | 2.13 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.01 | 0.02 | 23.68 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.63 | 0.60 | 0.51 | 0.58 | 10.99 | ppb |
| Cadmium | 106-1 | 1.17 | -0.15 | 0.85 | 0.62 | 110.89 | ppb |
| Cadmium | 111-1 | 0.12 | 0.01 | 0.10 | 0.08 | 74.30 | ppb |
| Calcium | 43-1 | 134809.97 | 135033.90 | 133900.44 | 134581.44 | 0.45 | ppb |
| Calcium | 44-1 | 132788.66 | 131877.55 | 133868.06 | 132844.76 | 0.75 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.07 | 0.03 | 0.00 | 0.03 | 107.95 | ppb |
| Cobalt | 59-2 | 0.13 | 0.12 | 0.11 | 0.12 | 10.46 | ppb |
| Copper | 63-2 | 0.69 | 0.70 | 0.69 | 0.69 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 24.59 | 26.52 | 27.66 | 26.26 | 5.91 | ppb |
| Iron | 56-2 | 27.43 | 27.50 | 27.03 | 27.32 | 0.94 | ppb |
| Iron | 57-2 | 28.70 | 29.61 | 28.62 | 28.98 | 1.91 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.23 | 0.22 | 0.22 | 0.22 | 4.70 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.20 | 0.20 | 0.21 | 0.20 | 4.27 | ppb |
| Lead | 208-1 | 0.21 | 0.21 | 0.21 | 0.21 | 0.87 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 14.94 | 15.43 | 15.00 | 15.13 | 1.76 | ppb |
| Manganese | 55-2 | 2.65 | 2.70 | 2.77 | 2.71 | 2.16 | ppb |
| Molybdenum | 94-1 | 35.79 | 35.51 | 36.56 | 35.95 | 1.52 | ppb |
| Molybdenum | 95-1 | 43.47 | 42.51 | 44.98 | 43.65 | 2.86 | ppb |
| Molybdenum | 96-1 | 42.34 | 41.44 | 43.52 | 42.44 | 2.46 | ppb |
| Molybdenum | 97-1 | 43.71 | 43.20 | 44.58 | 43.83 | 1.59 | ppb |
| Molybdenum | 98-1 | 43.12 | 42.35 | 44.06 | 43.17 | 1.98 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 164.94 | 165.33 | 166.84 | 165.70 | 0.61 | ppb |
| Phosphorus | 31-2 | 406.27 | 387.81 | 389.47 | 394.52 | 2.59 | ppb |
| Potassium | 39-2 | 63300.05 | 63163.01 | 63445.25 | 63302.77 | 0.22 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 1.42 | 1.40 | 1.43 | 1.41 | 1.05 | ppb |
| Selenium | 77-2 | 0.67 | 1.33 | 1.96 | 1.32 | 48.63 | ppb |
| Selenium | 78-2 | 0.95 | -0.04 | 1.46 | 0.79 | 96.26 | ppb |
| Silicon | 28-1 | 2336.01 | 2333.47 | 2372.25 | 2347.25 | 0.92 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.07 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 23.95 | ppb |
| Sodium | 23-2 | 31437.21 | 32429.24 | 32485.46 | 32117.30 | 1.84 | ppb |
| Strontium | 86-1 | 1343.02 | 1318.85 | 1348.90 | 1336.92 | 1.19 | ppb |
| Strontium | 88-1 | 1346.75 | 1322.75 | 1367.94 | 1345.81 | 1.68 | ppb |
| Sulfur | 34-1 | 12946.57 | 12285.87 | 12591.67 | 12608.04 | 2.62 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 35.01 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.95 | ppb |
| Tin | 118-1 | 0.77 | 0.76 | 0.75 | 0.76 | 1.45 | ppb |
| Titanium | 47-1 | 0.70 | 0.64 | 0.65 | 0.66 | 4.14 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.60 | 2.64 | 2.68 | 2.64 | 1.48 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 1.68 | 1.83 | 1.67 | 1.73 | 5.23 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.01 | 0.02 | 22.41 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.02 | 27.37 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 123.26 | 119.81 | 122.26 | 121.77 | 1.46 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.45 | ppb |
| Arsenic | 75-2 | 0.46 | 0.44 | 0.41 | 0.44 | 5.92 | ppb |
| Barium | 135-1 | 8.82 | 8.85 | 7.94 | 8.54 | 6.06 | ppb |
| Barium | 137-1 | 9.13 | 8.68 | 8.04 | 8.62 | 6.37 | ppb |
| Beryllium | 9-1 | 0.02 | 0.01 | 0.01 | 0.02 | 29.03 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.08 | 0.10 | 0.06 | 0.08 | 23.72 | ppb |
| Cadmium | 106-1 | 0.64 | 0.61 | 1.10 | 0.78 | 35.42 | ppb |
| Cadmium | 111-1 | 0.05 | 0.05 | 0.10 | 0.07 | 34.91 | ppb |
| Calcium | 43-1 | 29276.26 | 27807.13 | 25938.06 | 27673.82 | 6.05 | ppb |
| Calcium | 44-1 | 28688.72 | 27275.20 | 25053.33 | 27005.75 | 6.79 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.05 | -0.05 | -0.02 | -0.04 | | ppb |
| Cobalt | 59-2 | 0.03 | 0.02 | 0.02 | 0.02 | 16.93 | ppb |
| Copper | 63-2 | 0.42 | 0.37 | 0.43 | 0.41 | 8.36 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 6.22 | 6.89 | 6.18 | 6.43 | 6.15 | ppb |
| Iron | 56-2 | 7.00 | 6.71 | 6.73 | 6.81 | 2.34 | ppb |
| Iron | 57-2 | 7.17 | 7.25 | 7.01 | 7.14 | 1.67 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.06 | 0.06 | 0.04 | 0.05 | 14.23 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.06 | 0.06 | 0.04 | 0.05 | 19.13 | ppb |
| Lead | 208-1 | 0.06 | 0.05 | 0.05 | 0.05 | 15.93 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -5.16 | -5.31 | -5.89 | -5.45 | | ppb |
| Manganese | 55-2 | 0.58 | 0.52 | 0.56 | 0.55 | 5.13 | ppb |
| Molybdenum | 94-1 | 7.64 | 7.20 | 6.64 | 7.16 | 7.02 | ppb |
| Molybdenum | 95-1 | 9.05 | 8.77 | 7.89 | 8.57 | 7.06 | ppb |
| Molybdenum | 96-1 | 8.97 | 8.55 | 7.82 | 8.45 | 6.92 | ppb |
| Molybdenum | 97-1 | 9.19 | 8.93 | 8.03 | 8.72 | 6.94 | ppb |
| Molybdenum | 98-1 | 9.09 | 8.69 | 7.85 | 8.54 | 7.37 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 35.26 | 33.87 | 34.33 | 34.49 | 2.05 | ppb |
| Phosphorus | 31-2 | 74.82 | 33.74 | 62.11 | 56.89 | 36.97 | ppb |
| Potassium | 39-2 | 13316.88 | 12710.69 | 12937.05 | 12988.21 | 2.36 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 0.29 | 0.25 | 0.28 | 0.27 | 7.97 | ppb |
| Selenium | 77-2 | 0.67 | 0.00 | 0.00 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.42 | 0.52 | -1.01 | -0.30 | | ppb |
| Silicon | 28-1 | 496.91 | 474.47 | 441.67 | 471.01 | 5.90 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.00 | 0.01 | 25.11 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 11.37 | ppb |
| Sodium | 23-2 | 6641.77 | 6607.27 | 6606.67 | 6618.57 | 0.30 | ppb |
| Strontium | 86-1 | 288.79 | 271.69 | 246.39 | 268.96 | 7.93 | ppb |
| Strontium | 88-1 | 285.49 | 272.94 | 246.19 | 268.21 | 7.48 | ppb |
| Sulfur | 34-1 | 4935.02 | 4053.09 | 3343.67 | 4110.60 | 19.39 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 228.19 | ppb |
| Tin | 118-1 | 0.17 | 0.15 | 0.14 | 0.15 | 10.76 | ppb |
| Titanium | 47-1 | 0.13 | 0.17 | 0.13 | 0.14 | 16.05 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.58 | 0.52 | 0.52 | 0.54 | 6.63 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.49 | 0.42 | 0.41 | 0.44 | 9.83 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 600.24 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.69 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2484.76 | 2441.52 | 2452.19 | 2459.49 | 0.92 | ppb |
| Antimony | 121-1 | 140.80 | 124.96 | 121.96 | 129.24 | 7.83 | ppb |
| Arsenic | 75-2 | 42.23 | 43.23 | 42.89 | 42.78 | 1.19 | ppb |
| Barium | 135-1 | 2438.49 | 2184.11 | 2164.85 | 2262.48 | 6.75 | ppb |
| Barium | 137-1 | 2423.90 | 2149.69 | 2110.51 | 2228.03 | 7.66 | ppb |
| Beryllium | 9-1 | 56.40 | 50.68 | 52.04 | 53.04 | 5.64 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 47.93 | 42.94 | 41.96 | 44.28 | 7.23 | ppb |
| Cadmium | 106-1 | 47.65 | 41.61 | 41.08 | 43.45 | 8.40 | ppb |
| Cadmium | 111-1 | 57.54 | 50.70 | 49.63 | 52.63 | 8.16 | ppb |
| Calcium | 43-1 | 150211.21 | 133198.02 | 128756.97 | 137388.73 | 8.24 | ppb |
| Calcium | 44-1 | 148425.81 | 131105.32 | 126463.27 | 135331.47 | 8.55 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 209.18 | 206.42 | 208.07 | 207.89 | 0.67 | ppb |
| Cobalt | 59-2 | 539.80 | 535.38 | 542.00 | 539.06 | 0.63 | ppb |
| Copper | 63-2 | 280.62 | 266.15 | 279.13 | 275.30 | 2.89 | ppb |
| Dysprosium | 156-1 | | | | | | 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 | | | | 100 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 1215.88 | 1205.51 | 1199.34 | 1206.91 | 0.69 | ppb |
| Iron | 56-2 | 1105.41 | 1067.12 | 1096.10 | 1089.54 | 1.83 | ppb |
| Iron | 57-2 | 1056.50 | 1033.68 | 1054.12 | 1048.10 | 1.20 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 22.89 | 20.54 | 20.42 | 21.29 | 6.54 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 22.73 | 20.45 | 20.56 | 21.25 | 6.07 | ppb |
| Lead | 208-1 | 22.87 | 20.44 | 20.41 | 21.24 | 6.65 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 15.06 | 14.89 | 14.55 | 14.83 | 1.73 | ppb |
| Manganese | 55-2 | 508.71 | 500.45 | 502.74 | 503.97 | 0.85 | ppb |
| Molybdenum | 94-1 | 38.44 | 35.24 | 35.16 | 36.28 | 5.16 | ppb |
| Molybdenum | 95-1 | 46.94 | 42.16 | 42.09 | 43.73 | 6.35 | ppb |
| Molybdenum | 96-1 | 45.40 | 41.09 | 41.07 | 42.52 | 5.87 | ppb |
| Molybdenum | 97-1 | 47.54 | 43.02 | 42.46 | 44.34 | 6.27 | ppb |
| Molybdenum | 98-1 | 46.56 | 42.22 | 41.73 | 43.50 | 6.11 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 715.69 | 666.62 | 715.98 | 699.43 | 4.06 | ppb |
| Phosphorus | 31-2 | 448.64 | 429.59 | 466.05 | 448.09 | 4.07 | ppb |
| Potassium | 39-2 | 61092.36 | 60307.82 | 62028.26 | 61142.81 | 1.41 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 22.72 | 20.40 | 20.90 | 21.34 | 5.73 | ppb |
| Selenium | 77-2 | 30.81 | 18.07 | 18.85 | 22.58 | 31.64 | ppb |
| Selenium | 78-2 | 17.69 | 20.18 | 19.14 | 19.01 | 6.58 | ppb |
| Silicon | 28-1 | 2632.39 | 2331.14 | 2284.78 | 2416.10 | 7.81 | ppb |
| Silver | 107-1 | 55.20 | 49.33 | 48.68 | 51.07 | 7.03 | ppb |
| Silver | 109-1 | 55.70 | 50.23 | 49.45 | 51.79 | 6.58 | ppb |
| Sodium | 23-2 | 31648.51 | 31101.42 | 31322.12 | 31357.35 | 0.88 | ppb |
| Strontium | 86-1 | 1475.55 | 1309.37 | 1296.74 | 1360.56 | 7.33 | ppb |
| Strontium | 88-1 | 1456.31 | 1302.51 | 1290.03 | 1349.62 | 6.86 | ppb |
| Sulfur | 34-1 | 15047.24 | 11727.11 | 11419.32 | 12731.23 | 15.80 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 56.88 | 50.60 | 51.01 | 52.83 | 6.65 | ppb |
| Thallium | 205-1 | 59.74 | 54.17 | 52.68 | 55.53 | 6.70 | ppb |
| Tin | 118-1 | 0.87 | 0.74 | 0.74 | 0.78 | 9.88 | ppb |
| Titanium | 47-1 | 0.93 | 0.75 | 0.71 | 0.80 | 14.29 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 544.59 | 520.49 | 536.81 | 533.96 | 2.30 | 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 | 504.63 | 499.03 | 503.12 | 502.26 | 0.58 | ppb |
| Zirconium | 90-1 | 0.04 | 0.03 | 0.03 | 0.03 | 7.22 | ppb |
| Zirconium | 91-1 | 0.07 | 0.05 | 0.05 | 0.06 | 18.43 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9.52 | 10.44 | 10.77 | 10.24 | 6.36 | ppb |
| Antimony | 121-1 | 0.21 | 0.18 | 0.17 | 0.18 | 11.46 | ppb |
| Arsenic | 75-2 | 0.54 | 0.57 | 0.50 | 0.53 | 6.05 | ppb |
| Barium | 135-1 | 31.36 | 27.73 | 27.14 | 28.74 | 7.94 | ppb |
| Barium | 137-1 | 31.39 | 27.75 | 27.35 | 28.83 | 7.73 | ppb |
| Beryllium | 9-1 | 0.04 | 0.02 | 0.03 | 0.03 | 29.61 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.06 | 0.06 | 0.08 | 34.91 | ppb |
| Cadmium | 106-1 | 0.20 | -0.08 | -0.73 | -0.20 | | ppb |
| Cadmium | 111-1 | 0.02 | 0.00 | -0.06 | -0.01 | | ppb |
| Calcium | 43-1 | 369597.70 | 321557.04 | 317640.07 | 336264.94 | 8.60 | ppb |
| Calcium | 44-1 | 365716.34 | 317233.06 | 308297.63 | 330415.68 | 9.35 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.50 | 1.44 | 1.55 | 1.50 | 3.55 | ppb |
| Cobalt | 59-2 | 0.07 | 0.08 | 0.07 | 0.07 | 7.79 | ppb |
| Copper | 63-2 | 0.15 | 0.15 | 0.16 | 0.15 | 5.73 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 346.39 | 357.73 | 356.38 | 353.50 | 1.75 | ppb |
| Iron | 56-2 | 353.74 | 359.12 | 354.91 | 355.92 | 0.80 | ppb |
| Iron | 57-2 | 358.47 | 361.19 | 359.54 | 359.73 | 0.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.52 | 1.32 | 1.32 | 1.39 | 8.63 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.49 | 1.29 | 1.25 | 1.34 | 9.62 | ppb |
| Lead | 208-1 | 1.49 | 1.29 | 1.26 | 1.35 | 9.11 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 92507.23 | 92215.72 | 93146.09 | 92623.01 | 0.51 | ppb |
| Manganese | 55-2 | 20.12 | 20.67 | 19.73 | 20.17 | 2.33 | ppb |
| Molybdenum | 94-1 | 4.58 | 3.91 | 4.05 | 4.18 | 8.41 | ppb |
| Molybdenum | 95-1 | 5.40 | 4.66 | 4.66 | 4.90 | 8.70 | ppb |
| Molybdenum | 96-1 | 5.26 | 4.63 | 4.64 | 4.84 | 7.47 | ppb |
| Molybdenum | 97-1 | 5.42 | 4.68 | 4.74 | 4.95 | 8.32 | ppb |
| Molybdenum | 98-1 | 5.30 | 4.74 | 4.67 | 4.90 | 7.00 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.56 | 0.43 | 0.53 | 0.51 | 13.76 | ppb |
| Phosphorus | 31-2 | -6.04 | -7.34 | -13.69 | -9.02 | | ppb |
| Potassium | 39-2 | 3309.82 | 3390.89 | 3352.57 | 3351.09 | 1.21 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.54 | 0.01 | 0.41 | 0.32 | 86.23 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.22 | 0.19 | -0.40 | -0.14 | | ppb |
| Silicon | 28-1 | 5935.10 | 5064.62 | 4940.99 | 5313.57 | 10.20 | ppb |
| Silver | 107-1 | 0.05 | 0.03 | 0.02 | 0.03 | 41.87 | ppb |
| Silver | 109-1 | 0.04 | 0.03 | 0.02 | 0.03 | 28.79 | ppb |
| Sodium | 23-2 | 21131.63 | 21284.66 | 21018.69 | 21144.99 | 0.63 | ppb |
| Strontium | 86-1 | 11924.54 | 10350.54 | 10414.59 | 10896.55 | 8.18 | ppb |
| Strontium | 88-1 | 11704.22 | 10321.35 | 10342.82 | 10789.46 | 7.34 | ppb |
| Sulfur | 34-1 | 408449.98 | 353033.82 | 347954.60 | 369812.80 | 9.07 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 23.05 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.94 | ppb |
| Tin | 118-1 | 0.57 | 0.51 | 0.46 | 0.51 | 10.55 | ppb |
| Titanium | 47-1 | 0.80 | 0.69 | 0.69 | 0.73 | 8.92 | ppb |
| Uranium | 238-1 | 38.46 | 33.53 | 33.87 | 35.29 | 7.79 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.10 | 0.07 | 0.09 | 13.93 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.63 | 0.75 | 0.77 | 0.72 | 10.20 | ppb |
| Zirconium | 90-1 | 0.07 | 0.06 | 0.06 | 0.06 | 3.37 | ppb |
| Zirconium | 91-1 | 0.07 | 0.07 | 0.07 | 0.07 | 2.69 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11.78 | 11.16 | 10.98 | 11.31 | 3.70 | ppb |
| Antimony | 121-1 | 0.05 | 0.04 | 0.05 | 0.05 | 13.26 | ppb |
| Arsenic | 75-2 | 0.46 | 0.39 | 0.43 | 0.43 | 7.65 | ppb |
| Barium | 135-1 | 47.90 | 48.81 | 49.64 | 48.79 | 1.78 | ppb |
| Barium | 137-1 | 48.16 | 48.95 | 49.73 | 48.95 | 1.60 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.17 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.03 | 0.08 | 0.05 | 56.75 | ppb |
| Cadmium | 106-1 | 1.20 | -0.19 | -0.48 | 0.18 | 502.93 | ppb |
| Cadmium | 111-1 | 0.09 | -0.01 | -0.04 | 0.01 | 508.30 | ppb |
| Calcium | 43-1 | 367276.44 | 368580.87 | 377131.35 | 370996.22 | 1.44 | ppb |
| Calcium | 44-1 | 357242.00 | 363001.03 | 368086.08 | 362776.37 | 1.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.42 | 0.45 | 0.47 | 0.45 | 5.66 | ppb |
| Cobalt | 59-2 | 0.16 | 0.16 | 0.15 | 0.16 | 2.44 | ppb |
| Copper | 63-2 | 0.91 | 0.93 | 0.92 | 0.92 | 1.09 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 275.76 | 274.86 | 271.69 | 274.10 | 0.78 | ppb |
| Iron | 56-2 | 275.34 | 277.77 | 271.88 | 275.00 | 1.08 | ppb |
| Iron | 57-2 | 280.87 | 281.81 | 275.98 | 279.55 | 1.12 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.06 | 0.08 | 0.10 | 0.08 | 23.37 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.39 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.09 | 0.08 | 9.05 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 92973.09 | 92702.86 | 92635.68 | 92770.54 | 0.19 | ppb |
| Manganese | 55-2 | 321.04 | 323.56 | 314.10 | 319.57 | 1.53 | ppb |
| Molybdenum | 94-1 | 0.42 | 0.49 | 0.47 | 0.46 | 7.50 | ppb |
| Molybdenum | 95-1 | 0.29 | 0.31 | 0.33 | 0.31 | 5.84 | ppb |
| Molybdenum | 96-1 | 0.30 | 0.31 | 0.31 | 0.31 | 2.22 | ppb |
| Molybdenum | 97-1 | 0.30 | 0.30 | 0.32 | 0.31 | 3.11 | ppb |
| Molybdenum | 98-1 | 0.27 | 0.30 | 0.32 | 0.30 | 8.56 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.37 | 0.42 | 0.46 | 0.42 | 10.67 | ppb |
| Phosphorus | 31-2 | 51.65 | 46.51 | 42.60 | 46.92 | 9.67 | ppb |
| Potassium | 39-2 | 3499.77 | 3517.25 | 3452.15 | 3489.72 | 0.97 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 0.18 | 0.27 | 0.11 | 0.19 | 42.68 | ppb |
| Selenium | 77-2 | 0.67 | 0.67 | 0.00 | 0.45 | 86.61 | ppb |
| Selenium | 78-2 | -0.03 | 0.37 | -0.62 | -0.10 | | ppb |
| Silicon | 28-1 | 5622.54 | 5841.42 | 5822.07 | 5762.01 | 2.10 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 19.31 | ppb |
| Silver | 109-1 | 0.01 | 0.03 | 0.01 | 0.01 | 72.26 | ppb |
| Sodium | 23-2 | 21368.98 | 21352.13 | 20861.26 | 21194.12 | 1.36 | ppb |
| Strontium | 86-1 | 12828.70 | 13524.54 | 14092.76 | 13482.00 | 4.70 | ppb |
| Strontium | 88-1 | 12846.17 | 13583.82 | 13863.26 | 13431.08 | 3.91 | ppb |
| Sulfur | 34-1 | 383500.55 | 390183.80 | 399206.98 | 390963.78 | 2.02 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.00 | 0.01 | 28.34 | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.01 | 0.00 | 18.70 | ppb |
| Tin | 118-1 | 0.33 | 0.34 | 0.35 | 0.34 | 2.23 | ppb |
| Titanium | 47-1 | 0.80 | 0.93 | 0.87 | 0.86 | 7.86 | ppb |
| Uranium | 238-1 | 0.16 | 0.16 | 0.16 | 0.16 | 1.67 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.13 | 0.14 | 0.13 | 0.13 | 4.06 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.61 | 0.77 | 0.73 | 0.70 | 11.42 | ppb |
| Zirconium | 90-1 | 0.10 | 0.12 | 0.11 | 0.11 | 5.60 | ppb |
| Zirconium | 91-1 | 0.12 | 0.11 | 0.14 | 0.12 | 9.54 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7.58 | 5.87 | 6.85 | 6.77 | 12.67 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.35 | ppb |
| Arsenic | 75-2 | 0.08 | 0.06 | 0.04 | 0.06 | 34.69 | ppb |
| Barium | 135-1 | 11.51 | 11.34 | 10.92 | 11.26 | 2.69 | ppb |
| Barium | 137-1 | 11.88 | 11.24 | 10.92 | 11.35 | 4.30 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.69 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.08 | 0.07 | 0.09 | 0.08 | 15.45 | ppb |
| Cadmium | 106-1 | 1.43 | -0.03 | 0.08 | 0.49 | 165.19 | ppb |
| Cadmium | 111-1 | 0.11 | 0.00 | 0.01 | 0.04 | 164.98 | ppb |
| Calcium | 43-1 | 452893.62 | 442340.01 | 420613.05 | 438615.56 | 3.75 | ppb |
| Calcium | 44-1 | 440913.61 | 436188.98 | 411094.34 | 429398.98 | 3.73 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.38 | 0.46 | 0.43 | 0.42 | 9.17 | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.09 | 0.10 | 5.90 | ppb |
| Copper | 63-2 | 0.36 | 0.33 | 0.36 | 0.35 | 4.91 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 90 | | % |
| Iron | 54-2 | 224.72 | 219.93 | 215.50 | 220.05 | 2.09 | ppb |
| Iron | 56-2 | 223.78 | 222.32 | 217.50 | 221.20 | 1.48 | ppb |
| Iron | 57-2 | 233.09 | 231.92 | 236.71 | 233.91 | 1.07 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.15 | 0.18 | 0.17 | 0.17 | 10.22 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.16 | 0.15 | 0.15 | 0.15 | 2.21 | ppb |
| Lead | 208-1 | 0.17 | 0.17 | 0.16 | 0.17 | 1.58 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 124219.24 | 124881.88 | 117966.12 | 122355.75 | 3.12 | ppb |
| Manganese | 55-2 | 37.47 | 37.40 | 36.73 | 37.20 | 1.10 | ppb |
| Molybdenum | 94-1 | 0.39 | 0.44 | 0.36 | 0.40 | 9.95 | ppb |
| Molybdenum | 95-1 | 0.27 | 0.28 | 0.25 | 0.27 | 4.70 | ppb |
| Molybdenum | 96-1 | 0.24 | 0.26 | 0.24 | 0.25 | 6.27 | ppb |
| Molybdenum | 97-1 | 0.25 | 0.24 | 0.23 | 0.24 | 3.11 | ppb |
| Molybdenum | 98-1 | 0.27 | 0.24 | 0.22 | 0.24 | 8.95 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.52 | 0.52 | 0.45 | 0.49 | 7.93 | ppb |
| Phosphorus | 31-2 | -8.84 | -13.56 | -8.27 | -10.22 | | ppb |
| Potassium | 39-2 | 7261.40 | 7224.18 | 7014.82 | 7166.80 | 1.85 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 0.74 | 0.21 | 0.60 | 0.52 | 53.22 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.46 | -0.58 | 1.03 | 0.30 | 270.23 | ppb |
| Silicon | 28-1 | 7538.53 | 7502.52 | 7093.76 | 7378.27 | 3.35 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.04 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.51 | ppb |
| Sodium | 23-2 | 76332.43 | 76189.99 | 73653.95 | 75392.12 | 2.00 | ppb |
| Strontium | 86-1 | 13423.03 | 12778.36 | 12416.12 | 12872.50 | 3.96 | ppb |
| Strontium | 88-1 | 13140.31 | 12773.60 | 12446.72 | 12786.87 | 2.71 | ppb |
| Sulfur | 34-1 | 466273.83 | 461395.42 | 436102.81 | 454590.69 | 3.56 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 0.00 | 0.01 | 0.00 | 0.00 | 64.26 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.01 | 0.01 | 22.79 | ppb |
| Tin | 118-1 | 0.55 | 0.52 | 0.49 | 0.52 | 5.27 | ppb |
| Titanium | 47-1 | 0.73 | 0.72 | 0.67 | 0.71 | 4.66 | ppb |
| Uranium | 238-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.55 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.14 | 0.13 | 0.14 | 0.14 | 6.53 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 2.02 | 1.89 | 1.72 | 1.88 | 7.86 | ppb |
| Zirconium | 90-1 | 0.10 | 0.09 | 0.09 | 0.09 | 4.95 | ppb |
| Zirconium | 91-1 | 0.10 | 0.09 | 0.09 | 0.09 | 6.39 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2019.48 | 1994.90 | 1987.14 | 2000.51 | 0.84 | ppb |
| Antimony | 121-1 | 0.97 | 0.97 | 0.97 | 0.97 | 0.18 | ppb |
| Arsenic | 75-2 | 2.33 | 2.08 | 2.09 | 2.17 | 6.49 | ppb |
| Barium | 135-1 | 101.04 | 102.06 | 99.61 | 100.91 | 1.22 | ppb |
| Barium | 137-1 | 101.45 | 101.57 | 101.51 | 101.51 | 0.06 | ppb |
| Beryllium | 9-1 | 0.13 | 0.13 | 0.14 | 0.13 | 2.67 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.37 | 0.34 | 0.36 | 0.36 | 4.43 | ppb |
| Cadmium | 106-1 | 0.42 | 0.55 | 0.49 | 0.49 | 13.85 | ppb |
| Cadmium | 111-1 | 0.08 | 0.09 | 0.09 | 0.09 | 2.42 | ppb |
| Calcium | 43-1 | 297885.20 | 303283.70 | 297054.38 | 299407.76 | 1.13 | ppb |
| Calcium | 44-1 | 286345.45 | 297981.00 | 284938.15 | 289754.87 | 2.47 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4.27 | 4.21 | 4.28 | 4.25 | 0.98 | ppb |
| Cobalt | 59-2 | 5.75 | 5.56 | 5.56 | 5.62 | 1.94 | ppb |
| Copper | 63-2 | 6.00 | 6.07 | 5.99 | 6.02 | 0.67 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 3077.14 | 3088.42 | 3047.39 | 3070.98 | 0.69 | ppb |
| Iron | 56-2 | 3201.66 | 3160.31 | 3138.58 | 3166.85 | 1.01 | ppb |
| Iron | 57-2 | 3105.84 | 3091.33 | 3035.78 | 3077.65 | 1.20 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4.17 | 4.25 | 4.11 | 4.17 | 1.72 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3.87 | 3.92 | 3.89 | 3.90 | 0.66 | ppb |
| Lead | 208-1 | 3.95 | 4.03 | 3.97 | 3.98 | 1.12 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 94732.38 | 92729.29 | 91072.58 | 92844.75 | 1.97 | ppb |
| Manganese | 55-2 | 908.65 | 891.42 | 861.39 | 887.15 | 2.70 | ppb |
| Molybdenum | 94-1 | 8.42 | 8.41 | 8.47 | 8.44 | 0.35 | ppb |
| Molybdenum | 95-1 | 7.77 | 7.79 | 7.78 | 7.78 | 0.13 | ppb |
| Molybdenum | 96-1 | 7.59 | 7.59 | 7.69 | 7.62 | 0.75 | ppb |
| Molybdenum | 97-1 | 7.55 | 7.75 | 7.65 | 7.65 | 1.30 | ppb |
| Molybdenum | 98-1 | 7.51 | 7.65 | 7.55 | 7.57 | 0.94 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.88 | 9.00 | 8.81 | 8.90 | 1.12 | ppb |
| Phosphorus | 31-2 | 531.11 | 521.38 | 543.38 | 531.96 | 2.07 | ppb |
| Potassium | 39-2 | 6705.36 | 6613.15 | 6526.68 | 6615.06 | 1.35 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.62 | 0.66 | 0.51 | 0.60 | 13.05 | ppb |
| Selenium | 77-2 | 5.51 | 2.07 | 1.36 | 2.98 | 74.47 | ppb |
| Selenium | 78-2 | 0.00 | 0.20 | -0.02 | 0.06 | 206.33 | ppb |
| Silicon | 28-1 | 9485.57 | 9991.11 | 9536.80 | 9671.16 | 2.88 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.02 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.03 | 0.02 | 6.10 | ppb |
| Sodium | 23-2 | 25761.17 | 25337.57 | 25162.82 | 25420.52 | 1.21 | ppb |
| Strontium | 86-1 | 17644.80 | 17758.91 | 17907.72 | 17770.48 | 0.74 | ppb |
| Strontium | 88-1 | 17552.62 | 17674.46 | 18210.36 | 17812.48 | 1.96 | ppb |
| Sulfur | 34-1 | 287635.77 | 296270.53 | 285000.04 | 289635.44 | 2.04 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.08 | 0.09 | 0.08 | 0.08 | 7.09 | ppb |
| Thallium | 205-1 | 0.08 | 0.08 | 0.08 | 0.08 | 4.27 | ppb |
| Tin | 118-1 | 3.44 | 3.35 | 3.45 | 3.41 | 1.65 | ppb |
| Titanium | 47-1 | 44.33 | 46.55 | 44.39 | 45.09 | 2.80 | ppb |
| Uranium | 238-1 | 3.15 | 3.20 | 3.12 | 3.16 | 1.40 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5.86 | 5.93 | 5.82 | 5.87 | 0.98 | 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 | 19.65 | 20.46 | 19.65 | 19.92 | 2.36 | ppb |
| Zirconium | 90-1 | 1.13 | 1.11 | 1.11 | 1.12 | 1.13 | ppb |
| Zirconium | 91-1 | 1.07 | 1.11 | 1.16 | 1.11 | 3.89 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8.36 | 8.50 | 7.76 | 8.20 | 4.81 | ppb |
| Antimony | 121-1 | 0.08 | 0.07 | 0.07 | 0.07 | 6.81 | ppb |
| Arsenic | 75-2 | 0.32 | 0.31 | 0.30 | 0.31 | 2.80 | ppb |
| Barium | 135-1 | 100.59 | 100.50 | 100.56 | 100.55 | 0.05 | ppb |
| Barium | 137-1 | 101.80 | 103.52 | 99.45 | 101.59 | 2.01 | ppb |
| Beryllium | 9-1 | 0.01 | 0.02 | 0.02 | 0.02 | 34.25 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.04 | 0.08 | 0.05 | 37.55 | ppb |
| Cadmium | 106-1 | 0.31 | 0.25 | -0.38 | 0.06 | 639.41 | ppb |
| Cadmium | 111-1 | 0.03 | 0.02 | -0.03 | 0.01 | 339.66 | ppb |
| Calcium | 43-1 | 405430.49 | 397858.53 | 400331.14 | 401206.72 | 0.96 | ppb |
| Calcium | 44-1 | 393604.24 | 390635.27 | 394343.33 | 392860.95 | 0.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.12 | 1.17 | 1.19 | 1.16 | 3.02 | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.09 | 0.10 | 8.46 | ppb |
| Copper | 63-2 | 0.90 | 0.86 | 0.81 | 0.85 | 5.63 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 25.64 | 28.30 | 26.04 | 26.66 | 5.39 | ppb |
| Iron | 56-2 | 26.90 | 26.63 | 25.01 | 26.18 | 3.91 | ppb |
| Iron | 57-2 | 34.66 | 36.89 | 31.85 | 34.47 | 7.33 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.10 | 0.10 | 0.10 | 0.10 | 4.19 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.11 | 0.11 | 0.09 | 0.10 | 10.93 | ppb |
| Lead | 208-1 | 0.10 | 0.10 | 0.10 | 0.10 | 2.44 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 44711.06 | 45150.32 | 42719.01 | 44193.46 | 2.93 | ppb |
| Manganese | 55-2 | 6.67 | 6.90 | 6.37 | 6.65 | 3.96 | ppb |
| Molybdenum | 94-1 | 1.75 | 1.64 | 1.61 | 1.66 | 4.53 | ppb |
| Molybdenum | 95-1 | 1.97 | 1.99 | 1.92 | 1.96 | 1.68 | ppb |
| Molybdenum | 96-1 | 1.90 | 1.93 | 1.90 | 1.91 | 1.01 | ppb |
| Molybdenum | 97-1 | 1.97 | 1.91 | 1.94 | 1.94 | 1.56 | ppb |
| Molybdenum | 98-1 | 1.96 | 1.92 | 1.92 | 1.93 | 1.04 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.64 | 3.53 | 3.48 | 3.55 | 2.34 | ppb |
| Phosphorus | 31-2 | -11.04 | -1.70 | -17.63 | -10.12 | | ppb |
| Potassium | 39-2 | 34625.56 | 35030.95 | 32153.79 | 33936.77 | 4.59 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.41 | 0.57 | 0.13 | 0.37 | 60.21 | ppb |
| Selenium | 77-2 | 0.70 | 0.00 | 0.66 | 0.45 | 86.69 | ppb |
| Selenium | 78-2 | 0.01 | -0.80 | -0.04 | -0.28 | | ppb |
| Silicon | 28-1 | 4567.57 | 4501.30 | 4573.70 | 4547.52 | 0.88 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.21 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.51 | ppb |
| Sodium | 23-2 | 38476.85 | 38570.27 | 36411.17 | 37819.43 | 3.23 | ppb |
| Strontium | 86-1 | 15292.12 | 15034.59 | 14865.89 | 15064.20 | 1.42 | ppb |
| Strontium | 88-1 | 15007.32 | 14943.63 | 14683.05 | 14878.00 | 1.15 | ppb |
| Sulfur | 34-1 | 386507.24 | 369375.93 | 378941.23 | 378274.80 | 2.27 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.83 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.91 | ppb |
| Tin | 118-1 | 0.22 | 0.21 | 0.20 | 0.21 | 4.58 | ppb |
| Titanium | 47-1 | 0.62 | 0.61 | 0.60 | 0.61 | 1.77 | ppb |
| Uranium | 238-1 | 0.12 | 0.13 | 0.13 | 0.13 | 3.28 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.42 | 3.53 | 3.32 | 3.42 | 3.05 | 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 | 0.28 | 0.19 | 0.29 | 0.26 | 22.22 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.94 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.02 | 0.03 | 16.72 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9.80 | 8.85 | 9.10 | 9.25 | 5.27 | ppb |
| Antimony | 121-1 | 0.10 | 0.09 | 0.10 | 0.10 | 1.51 | ppb |
| Arsenic | 75-2 | 0.96 | 0.92 | 1.04 | 0.97 | 6.33 | ppb |
| Barium | 135-1 | 75.94 | 73.73 | 78.53 | 76.07 | 3.16 | ppb |
| Barium | 137-1 | 76.62 | 74.66 | 78.10 | 76.46 | 2.26 | ppb |
| Beryllium | 9-1 | 0.03 | 0.02 | 0.03 | 0.02 | 10.26 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.08 | 0.05 | 0.08 | 0.07 | 28.34 | ppb |
| Cadmium | 106-1 | -0.06 | 0.41 | -0.24 | 0.04 | 952.89 | ppb |
| Cadmium | 111-1 | 0.01 | 0.05 | 0.00 | 0.02 | 158.53 | ppb |
| Calcium | 43-1 | 394424.72 | 379977.98 | 400533.99 | 391645.56 | 2.70 | ppb |
| Calcium | 44-1 | 385890.37 | 375809.18 | 391363.98 | 384354.51 | 2.05 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.25 | 0.26 | 0.26 | 0.25 | 3.45 | ppb |
| Cobalt | 59-2 | 2.38 | 2.33 | 2.26 | 2.32 | 2.65 | ppb |
| Copper | 63-2 | 1.07 | 1.15 | 1.07 | 1.10 | 4.34 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 866.52 | 857.24 | 799.01 | 840.92 | 4.35 | ppb |
| Iron | 56-2 | 909.36 | 878.30 | 832.52 | 873.39 | 4.43 | ppb |
| Iron | 57-2 | 865.14 | 859.99 | 802.56 | 842.56 | 4.12 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.14 | 0.14 | 0.15 | 0.14 | 5.37 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.14 | 0.14 | 0.16 | 0.15 | 6.41 | ppb |
| Lead | 208-1 | 0.14 | 0.14 | 0.15 | 0.14 | 5.39 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 112441.08 | 109922.64 | 104219.81 | 108861.18 | 3.87 | ppb |
| Manganese | 55-2 | 268.82 | 258.52 | 246.82 | 258.05 | 4.27 | ppb |
| Molybdenum | 94-1 | 3.70 | 3.75 | 3.81 | 3.76 | 1.49 | ppb |
| Molybdenum | 95-1 | 4.12 | 4.10 | 4.21 | 4.14 | 1.40 | ppb |
| Molybdenum | 96-1 | 4.09 | 4.09 | 4.19 | 4.12 | 1.51 | ppb |
| Molybdenum | 97-1 | 4.17 | 4.03 | 4.32 | 4.17 | 3.48 | ppb |
| Molybdenum | 98-1 | 4.02 | 4.02 | 4.19 | 4.08 | 2.32 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 4.52 | 4.68 | 4.28 | 4.50 | 4.51 | ppb |
| Phosphorus | 31-2 | -7.11 | -15.43 | -3.87 | -8.80 | | ppb |
| Potassium | 39-2 | 3543.64 | 3495.12 | 3280.71 | 3439.83 | 4.07 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.43 | 0.51 | 0.36 | 0.43 | 18.02 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.66 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.41 | -0.20 | 0.14 | -0.15 | | ppb |
| Silicon | 28-1 | 7174.95 | 6885.95 | 7198.10 | 7086.33 | 2.45 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.35 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.02 | 0.02 | 30.44 | ppb |
| Sodium | 23-2 | 98628.06 | 98316.06 | 91233.40 | 96059.17 | 4.35 | ppb |
| Strontium | 86-1 | 12013.21 | 11916.89 | 12388.10 | 12106.07 | 2.06 | ppb |
| Strontium | 88-1 | 11876.54 | 11907.60 | 12197.21 | 11993.78 | 1.47 | ppb |
| Sulfur | 34-1 | 356667.00 | 339089.76 | 357520.61 | 351092.46 | 2.96 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.01 | 0.02 | 17.18 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 12.39 | ppb |
| Tin | 118-1 | 0.23 | 0.22 | 0.23 | 0.23 | 1.17 | ppb |
| Titanium | 47-1 | 0.64 | 0.69 | 0.66 | 0.66 | 3.97 | ppb |
| Uranium | 238-1 | 5.06 | 5.04 | 5.12 | 5.07 | 0.82 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.13 | 0.13 | 0.13 | 0.13 | 1.28 | 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 | 2.47 | 2.52 | 2.29 | 2.43 | 5.04 | ppb |
| Zirconium | 90-1 | 0.20 | 0.20 | 0.19 | 0.20 | 2.91 | ppb |
| Zirconium | 91-1 | 0.19 | 0.20 | 0.20 | 0.20 | 4.22 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9.74 | 10.38 | 10.91 | 10.35 | 5.65 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.85 | ppb |
| Arsenic | 75-2 | 0.23 | 0.28 | 0.27 | 0.26 | 11.10 | ppb |
| Barium | 135-1 | 49.26 | 48.88 | 47.99 | 48.71 | 1.34 | ppb |
| Barium | 137-1 | 49.21 | 49.65 | 48.33 | 49.06 | 1.37 | ppb |
| Beryllium | 9-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.38 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.03 | 0.05 | 0.04 | 33.25 | ppb |
| Cadmium | 106-1 | -0.07 | -0.25 | -0.18 | -0.17 | | ppb |
| Cadmium | 111-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Calcium | 43-1 | 347298.71 | 350694.39 | 349663.59 | 349218.89 | 0.50 | ppb |
| Calcium | 44-1 | 342909.43 | 340165.00 | 346992.05 | 343355.49 | 1.00 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.09 | 1.08 | 1.11 | 1.09 | 1.63 | ppb |
| Cobalt | 59-2 | 0.12 | 0.12 | 0.12 | 0.12 | 1.60 | ppb |
| Copper | 63-2 | 0.73 | 0.70 | 0.70 | 0.71 | 2.39 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 217.74 | 216.65 | 214.26 | 216.22 | 0.82 | ppb |
| Iron | 56-2 | 216.39 | 215.76 | 214.65 | 215.60 | 0.41 | ppb |
| Iron | 57-2 | 224.28 | 225.27 | 222.27 | 223.94 | 0.68 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.18 | 0.20 | 0.21 | 0.20 | 7.97 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.18 | 0.19 | 0.20 | 0.19 | 5.07 | ppb |
| Lead | 208-1 | 0.18 | 0.19 | 0.21 | 0.19 | 6.17 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 150071.89 | 149769.92 | 150521.41 | 150121.07 | 0.25 | ppb |
| Manganese | 55-2 | 64.79 | 64.72 | 63.87 | 64.46 | 0.80 | ppb |
| Molybdenum | 94-1 | 0.85 | 0.85 | 0.86 | 0.85 | 0.55 | ppb |
| Molybdenum | 95-1 | 0.87 | 0.81 | 0.84 | 0.84 | 3.31 | ppb |
| Molybdenum | 96-1 | 0.82 | 0.83 | 0.82 | 0.82 | 0.96 | ppb |
| Molybdenum | 97-1 | 0.84 | 0.83 | 0.85 | 0.84 | 1.56 | ppb |
| Molybdenum | 98-1 | 0.83 | 0.83 | 0.81 | 0.82 | 1.04 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.62 | 1.55 | 1.67 | 1.62 | 3.87 | ppb |
| Phosphorus | 31-2 | 36.40 | 24.21 | 29.65 | 30.09 | 20.30 | ppb |
| Potassium | 39-2 | 15056.85 | 15385.28 | 14914.33 | 15118.82 | 1.60 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.61 | 0.62 | 0.36 | 0.53 | 27.36 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.41 | -0.80 | -0.41 | -0.27 | | ppb |
| Silicon | 28-1 | 6762.31 | 6693.85 | 6696.96 | 6717.71 | 0.58 | ppb |
| Silver | 107-1 | 0.12 | 0.08 | 0.04 | 0.08 | 46.51 | ppb |
| Silver | 109-1 | 0.10 | 0.07 | 0.03 | 0.07 | 48.32 | ppb |
| Sodium | 23-2 | 74583.93 | 74953.03 | 74719.43 | 74752.13 | 0.25 | ppb |
| Strontium | 86-1 | 12670.04 | 12738.74 | 12422.40 | 12610.39 | 1.32 | ppb |
| Strontium | 88-1 | 12653.99 | 12767.12 | 12315.43 | 12578.85 | 1.87 | ppb |
| Sulfur | 34-1 | 370967.90 | 368485.84 | 363379.84 | 367611.19 | 1.05 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 116.52 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.00 | 0.00 | 45.58 | ppb |
| Tin | 118-1 | 0.46 | 0.45 | 0.45 | 0.45 | 1.69 | ppb |
| Titanium | 47-1 | 0.81 | 0.88 | 0.83 | 0.84 | 4.33 | ppb |
| Uranium | 238-1 | 0.45 | 0.44 | 0.46 | 0.45 | 1.78 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.15 | 0.12 | 0.12 | 0.13 | 13.95 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 1.24 | 1.23 | 1.20 | 1.22 | 1.91 | ppb |
| Zirconium | 90-1 | 0.09 | 0.08 | 0.09 | 0.09 | 7.37 | ppb |
| Zirconium | 91-1 | 0.09 | 0.09 | 0.08 | 0.09 | 6.71 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 66.17 | 68.37 | 66.34 | 66.96 | 1.83 | ppb |
| Antimony | 121-1 | 0.21 | 0.20 | 0.20 | 0.20 | 1.68 | ppb |
| Arsenic | 75-2 | 3.50 | 3.13 | 2.89 | 3.17 | 9.71 | ppb |
| Barium | 135-1 | 67.09 | 66.39 | 64.63 | 66.03 | 1.92 | ppb |
| Barium | 137-1 | 67.30 | 66.27 | 65.18 | 66.25 | 1.60 | ppb |
| Beryllium | 9-1 | 0.02 | 0.01 | 0.02 | 0.02 | 19.13 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.47 | 0.42 | 0.40 | 0.43 | 7.28 | ppb |
| Cadmium | 106-1 | 0.13 | -0.37 | -0.02 | -0.08 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.01 | 0.02 | 0.01 | 145.39 | ppb |
| Calcium | 43-1 | 192470.13 | 185950.24 | 183717.14 | 187379.17 | 2.43 | ppb |
| Calcium | 44-1 | 186406.33 | 177307.45 | 176767.96 | 180160.58 | 3.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.29 | 0.30 | 0.24 | 0.28 | 11.09 | ppb |
| Cobalt | 59-2 | 2.05 | 2.00 | 1.92 | 1.99 | 3.14 | ppb |
| Copper | 63-2 | 0.68 | 0.73 | 0.69 | 0.70 | 3.86 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 166.68 | 170.88 | 165.54 | 167.70 | 1.68 | ppb |
| Iron | 56-2 | 169.96 | 170.59 | 166.79 | 169.11 | 1.21 | ppb |
| Iron | 57-2 | 174.51 | 171.07 | 168.97 | 171.51 | 1.63 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.27 | 0.23 | 0.23 | 0.24 | 9.66 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.24 | 0.23 | 0.24 | 0.24 | 1.82 | ppb |
| Lead | 208-1 | 0.25 | 0.23 | 0.23 | 0.24 | 5.17 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 57836.57 | 56292.09 | 55560.33 | 56563.00 | 2.05 | ppb |
| Manganese | 55-2 | 713.55 | 708.42 | 701.48 | 707.82 | 0.86 | ppb |
| Molybdenum | 94-1 | 28.12 | 27.61 | 27.25 | 27.66 | 1.57 | ppb |
| Molybdenum | 95-1 | 33.84 | 32.88 | 33.34 | 33.35 | 1.43 | ppb |
| Molybdenum | 96-1 | 32.39 | 32.06 | 31.73 | 32.06 | 1.02 | ppb |
| Molybdenum | 97-1 | 33.50 | 32.90 | 33.31 | 33.24 | 0.91 | ppb |
| Molybdenum | 98-1 | 33.46 | 32.49 | 32.82 | 32.92 | 1.50 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.88 | 1.82 | 1.87 | 1.85 | 1.62 | ppb |
| Phosphorus | 31-2 | 141.45 | 149.63 | 147.06 | 146.05 | 2.87 | ppb |
| Potassium | 39-2 | 11601.99 | 11218.08 | 11142.69 | 11320.92 | 2.18 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 0.81 | 0.45 | 0.37 | 0.54 | 43.03 | ppb |
| Selenium | 77-2 | 1.35 | 0.00 | 0.67 | 0.67 | 100.35 | ppb |
| Selenium | 78-2 | -0.42 | 0.36 | -0.23 | -0.09 | | ppb |
| Silicon | 28-1 | 7947.49 | 7675.87 | 7482.87 | 7702.08 | 3.03 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 3.42 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.64 | ppb |
| Sodium | 23-2 | 118427.39 | 114876.42 | 112401.19 | 115235.00 | 2.63 | ppb |
| Strontium | 86-1 | 17103.64 | 16752.93 | 16555.67 | 16804.08 | 1.65 | ppb |
| Strontium | 88-1 | 16955.84 | 16405.94 | 16299.44 | 16553.74 | 2.13 | ppb |
| Sulfur | 34-1 | 238128.95 | 229106.25 | 226754.70 | 231329.97 | 2.60 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 21.06 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.00 | 0.00 | 13.14 | ppb |
| Tin | 118-1 | 1.13 | 1.11 | 1.10 | 1.11 | 1.25 | ppb |
| Titanium | 47-1 | 3.82 | 3.77 | 3.62 | 3.74 | 2.70 | ppb |
| Uranium | 238-1 | 2.65 | 2.58 | 2.57 | 2.60 | 1.69 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.41 | 0.44 | 0.43 | 0.43 | 3.09 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 1.56 | 1.44 | 1.48 | 1.49 | 4.17 | ppb |
| Zirconium | 90-1 | 0.12 | 0.11 | 0.12 | 0.12 | 3.09 | ppb |
| Zirconium | 91-1 | 0.12 | 0.12 | 0.11 | 0.11 | 4.61 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 45.61 | 48.19 | 49.51 | 47.77 | 4.15 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.62 | ppb |
| Arsenic | 75-2 | 0.55 | 0.68 | 0.66 | 0.63 | 11.07 | ppb |
| Barium | 135-1 | 8.07 | 8.36 | 8.40 | 8.28 | 2.21 | ppb |
| Barium | 137-1 | 8.03 | 8.44 | 8.39 | 8.29 | 2.70 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 14.76 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.03 | 0.09 | 0.06 | 63.37 | ppb |
| Cadmium | 106-1 | -0.14 | -0.58 | -0.45 | -0.39 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.04 | -0.03 | -0.03 | | ppb |
| Calcium | 43-1 | 414321.20 | 423796.93 | 430593.66 | 422903.93 | 1.93 | ppb |
| Calcium | 44-1 | 407215.25 | 415651.25 | 427562.05 | 416809.52 | 2.45 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.02 | 0.04 | 0.06 | 0.04 | 48.98 | ppb |
| Cobalt | 59-2 | 0.06 | 0.07 | 0.06 | 0.06 | 9.77 | ppb |
| Copper | 63-2 | 0.47 | 0.45 | 0.46 | 0.46 | 2.29 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 5017.34 | 5076.29 | 5036.67 | 5043.43 | 0.60 | ppb |
| Iron | 56-2 | 5159.94 | 5202.51 | 5262.78 | 5208.41 | 0.99 | ppb |
| Iron | 57-2 | 5057.58 | 4997.44 | 5025.86 | 5026.96 | 0.60 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.07 | 0.09 | 0.08 | 12.14 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.08 | 0.09 | 0.08 | 7.52 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.09 | 0.08 | 5.52 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 163929.71 | 165027.62 | 165348.36 | 164768.56 | 0.45 | ppb |
| Manganese | 55-2 | 62.88 | 63.81 | 63.93 | 63.54 | 0.90 | ppb |
| Molybdenum | 94-1 | 1.36 | 1.43 | 1.40 | 1.40 | 2.72 | ppb |
| Molybdenum | 95-1 | 1.50 | 1.62 | 1.52 | 1.55 | 4.16 | ppb |
| Molybdenum | 96-1 | 1.45 | 1.52 | 1.48 | 1.48 | 2.47 | ppb |
| Molybdenum | 97-1 | 1.51 | 1.60 | 1.48 | 1.53 | 4.13 | ppb |
| Molybdenum | 98-1 | 1.48 | 1.50 | 1.49 | 1.49 | 0.54 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.23 | 0.25 | 0.25 | 0.25 | 4.29 | ppb |
| Phosphorus | 31-2 | -12.83 | -16.07 | -7.57 | -12.16 | | ppb |
| Potassium | 39-2 | 4135.25 | 4109.67 | 4133.08 | 4126.00 | 0.34 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 0.27 | 0.23 | 0.36 | 0.29 | 23.16 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.40 | -0.60 | 0.43 | -0.19 | | ppb |
| Silicon | 28-1 | 9588.83 | 9898.48 | 9935.74 | 9807.69 | 1.94 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.19 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 41.65 | ppb |
| Sodium | 23-2 | 46307.21 | 46307.01 | 46635.57 | 46416.60 | 0.41 | ppb |
| Strontium | 86-1 | 12174.79 | 12515.58 | 12275.53 | 12321.97 | 1.42 | ppb |
| Strontium | 88-1 | 11995.30 | 12474.82 | 12387.77 | 12285.96 | 2.08 | ppb |
| Sulfur | 34-1 | 523185.59 | 535510.77 | 541726.54 | 533474.30 | 1.77 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 71.13 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.01 | 0.00 | 20.46 | ppb |
| Tin | 118-1 | 0.17 | 0.16 | 0.17 | 0.17 | 5.64 | ppb |
| Titanium | 47-1 | 0.97 | 0.89 | 0.98 | 0.95 | 5.58 | ppb |
| Uranium | 238-1 | 0.83 | 0.85 | 0.88 | 0.86 | 2.89 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.05 | 0.05 | 0.05 | 0.05 | 4.80 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 1.28 | 1.37 | 1.26 | 1.31 | 4.25 | ppb |
| Zirconium | 90-1 | 0.04 | 0.05 | 0.05 | 0.05 | 9.28 | ppb |
| Zirconium | 91-1 | 0.05 | 0.04 | 0.06 | 0.05 | 17.93 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.82 | 3.93 | 3.88 | 3.88 | 1.44 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 17.08 | ppb |
| Arsenic | 75-2 | 0.09 | 0.12 | 0.14 | 0.11 | 22.12 | ppb |
| Barium | 135-1 | 15.21 | 15.78 | 15.75 | 15.58 | 2.05 | ppb |
| Barium | 137-1 | 15.23 | 16.02 | 16.02 | 15.76 | 2.90 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.92 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.02 | 0.00 | 0.02 | 69.56 | ppb |
| Cadmium | 106-1 | 0.65 | 0.81 | -0.43 | 0.34 | 195.15 | ppb |
| Cadmium | 111-1 | 0.05 | 0.06 | -0.03 | 0.03 | 189.89 | ppb |
| Calcium | 43-1 | 261576.27 | 268348.97 | 262602.31 | 264175.85 | 1.38 | ppb |
| Calcium | 44-1 | 257364.70 | 261162.83 | 256279.86 | 258269.13 | 0.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | 0.02 | 0.02 | 0.03 | 30.81 | ppb |
| Cobalt | 59-2 | 0.01 | 0.03 | 0.03 | 0.02 | 36.07 | ppb |
| Copper | 63-2 | 0.30 | 0.39 | 0.34 | 0.34 | 13.39 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 597.08 | 624.17 | 618.72 | 613.32 | 2.34 | ppb |
| Iron | 56-2 | 626.84 | 664.04 | 656.60 | 649.16 | 3.03 | ppb |
| Iron | 57-2 | 602.59 | 639.71 | 613.31 | 618.54 | 3.09 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.09 | 0.09 | 0.69 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.09 | 0.10 | 0.09 | 2.40 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.23 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 73095.12 | 76229.47 | 74501.88 | 74608.83 | 2.10 | ppb |
| Manganese | 55-2 | 78.88 | 83.31 | 81.60 | 81.27 | 2.75 | ppb |
| Molybdenum | 94-1 | 0.29 | 0.32 | 0.30 | 0.31 | 6.07 | ppb |
| Molybdenum | 95-1 | 0.29 | 0.29 | 0.30 | 0.29 | 1.52 | ppb |
| Molybdenum | 96-1 | 0.28 | 0.29 | 0.32 | 0.30 | 7.69 | ppb |
| Molybdenum | 97-1 | 0.29 | 0.28 | 0.30 | 0.29 | 3.44 | ppb |
| Molybdenum | 98-1 | 0.28 | 0.28 | 0.31 | 0.29 | 6.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.18 | 0.26 | 0.25 | 0.23 | 20.32 | ppb |
| Phosphorus | 31-2 | 45.67 | 52.06 | 46.82 | 48.18 | 7.06 | ppb |
| Potassium | 39-2 | 2922.64 | 3048.58 | 3015.27 | 2995.49 | 2.18 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 0.43 | 0.86 | 0.44 | 0.58 | 42.25 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -1.01 | -0.58 | -0.40 | -0.66 | | ppb |
| Silicon | 28-1 | 5630.74 | 5720.98 | 5666.99 | 5672.90 | 0.80 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.00 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.64 | ppb |
| Sodium | 23-2 | 26267.32 | 26970.41 | 26228.28 | 26488.67 | 1.58 | ppb |
| Strontium | 86-1 | 13709.95 | 14363.05 | 14570.90 | 14214.63 | 3.16 | ppb |
| Strontium | 88-1 | 13486.10 | 13991.05 | 14519.19 | 13998.78 | 3.69 | ppb |
| Sulfur | 34-1 | 274887.57 | 276201.25 | 275113.55 | 275400.79 | 0.26 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.60 | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.39 | ppb |
| Tin | 118-1 | 0.35 | 0.39 | 0.37 | 0.37 | 5.88 | ppb |
| Titanium | 47-1 | 0.55 | 0.62 | 0.51 | 0.56 | 9.71 | ppb |
| Uranium | 238-1 | 0.13 | 0.13 | 0.13 | 0.13 | 0.63 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.05 | 0.05 | 0.06 | 0.05 | 17.71 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 1.02 | 1.00 | 0.89 | 0.97 | 7.14 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.18 | ppb |
| Zirconium | 91-1 | 0.03 | 0.04 | 0.03 | 0.03 | 17.91 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6.62 | 6.65 | 6.57 | 6.61 | 0.60 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.14 | ppb |
| Arsenic | 75-2 | 1.36 | 1.54 | 1.67 | 1.52 | 10.02 | ppb |
| Barium | 135-1 | 14.82 | 14.70 | 15.06 | 14.86 | 1.22 | ppb |
| Barium | 137-1 | 15.03 | 14.98 | 15.22 | 15.08 | 0.82 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.01 | 0.01 | 21.13 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.05 | 0.02 | 0.04 | 37.10 | ppb |
| Cadmium | 106-1 | -0.05 | 0.36 | 0.15 | 0.15 | 135.56 | ppb |
| Cadmium | 111-1 | -0.01 | 0.02 | 0.01 | 0.01 | 160.38 | ppb |
| Calcium | 43-1 | 383767.13 | 381327.99 | 383873.87 | 382989.66 | 0.38 | ppb |
| Calcium | 44-1 | 376023.50 | 373129.58 | 374270.19 | 374474.42 | 0.39 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | -0.04 | 0.00 | -0.02 | | ppb |
| Cobalt | 59-2 | 0.07 | 0.07 | 0.08 | 0.08 | 5.99 | ppb |
| Copper | 63-2 | 0.30 | 0.28 | 0.32 | 0.30 | 7.89 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 2483.70 | 2495.46 | 2511.31 | 2496.82 | 0.55 | ppb |
| Iron | 56-2 | 2577.34 | 2619.04 | 2584.67 | 2593.68 | 0.86 | ppb |
| Iron | 57-2 | 2495.28 | 2511.28 | 2483.79 | 2496.78 | 0.55 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.07 | 0.07 | 0.07 | 0.07 | 5.44 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.06 | 0.06 | 0.05 | 0.06 | 7.42 | ppb |
| Lead | 208-1 | 0.07 | 0.07 | 0.07 | 0.07 | 0.72 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 101062.16 | 101155.85 | 98927.86 | 100381.95 | 1.26 | ppb |
| Manganese | 55-2 | 170.37 | 172.30 | 169.36 | 170.68 | 0.88 | ppb |
| Molybdenum | 94-1 | 0.94 | 0.97 | 0.91 | 0.94 | 3.21 | ppb |
| Molybdenum | 95-1 | 1.02 | 1.03 | 1.05 | 1.03 | 1.78 | ppb |
| Molybdenum | 96-1 | 0.99 | 0.95 | 1.04 | 0.99 | 4.72 | ppb |
| Molybdenum | 97-1 | 1.02 | 1.03 | 1.05 | 1.04 | 1.28 | ppb |
| Molybdenum | 98-1 | 0.97 | 1.00 | 1.00 | 0.99 | 1.25 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.61 | 0.51 | 0.60 | 0.58 | 9.41 | ppb |
| Phosphorus | 31-2 | 14.30 | 14.53 | 10.47 | 13.10 | 17.42 | ppb |
| Potassium | 39-2 | 4671.69 | 4708.25 | 4648.15 | 4676.03 | 0.65 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.25 | 0.20 | 0.58 | 0.34 | 61.23 | ppb |
| Selenium | 77-2 | 0.68 | 0.00 | 0.69 | 0.46 | 86.61 | ppb |
| Selenium | 78-2 | -0.81 | 0.18 | -1.01 | -0.54 | | ppb |
| Silicon | 28-1 | 6837.13 | 6790.12 | 6795.99 | 6807.75 | 0.38 | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.02 | 0.02 | 23.01 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.35 | ppb |
| Sodium | 23-2 | 85708.79 | 84184.47 | 83981.49 | 84624.91 | 1.12 | ppb |
| Strontium | 86-1 | 12792.01 | 12909.16 | 13054.53 | 12918.57 | 1.02 | ppb |
| Strontium | 88-1 | 12991.37 | 12831.93 | 12955.48 | 12926.26 | 0.65 | ppb |
| Sulfur | 34-1 | 400941.66 | 405278.66 | 403383.98 | 403201.43 | 0.54 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | 33.41 | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 31.86 | ppb |
| Tin | 118-1 | 0.19 | 0.22 | 0.20 | 0.20 | 7.82 | ppb |
| Titanium | 47-1 | 0.66 | 0.65 | 0.67 | 0.66 | 2.10 | ppb |
| Uranium | 238-1 | 0.18 | 0.19 | 0.19 | 0.19 | 2.04 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.07 | 0.07 | 0.09 | 0.08 | 12.89 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.01 | 0.00 | 0.02 | 0.01 | 96.69 | ppb |
| Zirconium | 90-1 | 0.06 | 0.06 | 0.06 | 0.06 | 3.19 | ppb |
| Zirconium | 91-1 | 0.06 | 0.06 | 0.06 | 0.06 | 6.01 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 48369.21 | 47786.49 | 47431.30 | 47862.33 | 0.99 | ppb |
| Antimony | 121-1 | 507.38 | 498.89 | 498.35 | 501.54 | 1.01 | ppb |
| Arsenic | 75-2 | 496.39 | 499.79 | 485.40 | 493.86 | 1.52 | ppb |
| Barium | 135-1 | 2557.41 | 2554.87 | 2562.01 | 2558.09 | 0.14 | ppb |
| Barium | 137-1 | 2561.76 | 2558.85 | 2543.24 | 2554.62 | 0.39 | ppb |
| Beryllium | 9-1 | 486.50 | 502.47 | 491.42 | 493.47 | 1.66 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 496.18 | 495.05 | 498.41 | 496.55 | 0.34 | ppb |
| Cadmium | 106-1 | 503.44 | 503.68 | 502.75 | 503.29 | 0.10 | ppb |
| Cadmium | 111-1 | 484.64 | 489.94 | 501.22 | 491.93 | 1.72 | ppb |
| Calcium | 43-1 | 234600.68 | 239057.24 | 235431.10 | 236363.01 | 1.00 | ppb |
| Calcium | 44-1 | 231354.63 | 234351.61 | 233732.01 | 233146.08 | 0.68 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 506.27 | 513.58 | 513.39 | 511.08 | 0.81 | ppb |
| Cobalt | 59-2 | 495.28 | 497.58 | 500.50 | 497.79 | 0.53 | ppb |
| Copper | 63-2 | 4754.52 | 4685.21 | 4822.29 | 4754.00 | 1.44 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 91 | | % |
| Iron | 54-2 | 119105.80 | 121234.60 | 120759.49 | 120366.63 | 0.93 | ppb |
| Iron | 56-2 | 118782.58 | 118218.51 | 122178.68 | 119726.59 | 1.79 | ppb |
| Iron | 57-2 | 119965.69 | 117927.84 | 121514.21 | 119802.58 | 1.50 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2585.85 | 2659.67 | 2588.48 | 2611.33 | 1.60 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2539.16 | 2634.80 | 2535.40 | 2569.79 | 2.19 | ppb |
| Lead | 208-1 | 2568.20 | 2617.25 | 2565.06 | 2583.50 | 1.13 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 240283.73 | 242444.92 | 242746.91 | 241825.19 | 0.56 | ppb |
| Manganese | 55-2 | 4910.21 | 4974.48 | 5024.51 | 4969.73 | 1.15 | ppb |
| Molybdenum | 94-1 | 5081.07 | 5058.79 | 5131.34 | 5090.40 | 0.73 | ppb |
| Molybdenum | 95-1 | 5083.15 | 4983.71 | 5112.08 | 5059.65 | 1.33 | ppb |
| Molybdenum | 96-1 | 5065.13 | 4974.09 | 5009.43 | 5016.21 | 0.91 | ppb |
| Molybdenum | 97-1 | 5064.83 | 4987.21 | 5058.38 | 5036.81 | 0.86 | ppb |
| Molybdenum | 98-1 | 5026.92 | 4988.73 | 5044.79 | 5020.14 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 457.57 | 454.43 | 465.18 | 459.06 | 1.20 | ppb |
| Phosphorus | 31-2 | 9832.44 | 9617.03 | 9851.91 | 9767.13 | 1.33 | ppb |
| Potassium | 39-2 | 118170.40 | 119381.60 | 119874.67 | 119142.22 | 0.74 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 92 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 483.46 | 487.21 | 480.71 | 483.79 | 0.67 | ppb |
| Selenium | 77-2 | 471.21 | 508.51 | 444.82 | 474.84 | 6.74 | ppb |
| Selenium | 78-2 | 475.91 | 464.42 | 472.60 | 470.98 | 1.26 | ppb |
| Silicon | 28-1 | 510.15 | 518.58 | 521.51 | 516.75 | 1.14 | ppb |
| Silver | 107-1 | 491.60 | 483.68 | 481.79 | 485.69 | 1.07 | ppb |
| Silver | 109-1 | 488.32 | 483.39 | 485.28 | 485.66 | 0.51 | ppb |
| Sodium | 23-2 | 236308.25 | 245862.18 | 244598.60 | 242256.34 | 2.14 | ppb |
| Strontium | 86-1 | 511.81 | 512.34 | 511.06 | 511.73 | 0.13 | ppb |
| Strontium | 88-1 | 504.24 | 511.26 | 506.10 | 507.20 | 0.72 | ppb |
| Sulfur | 34-1 | 10277.88 | 10774.03 | 10318.11 | 10456.67 | 2.64 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 519.84 | 534.66 | 524.14 | 526.21 | 1.45 | ppb |
| Thallium | 205-1 | 520.84 | 523.96 | 520.89 | 521.90 | 0.34 | ppb |
| Tin | 118-1 | 509.06 | 507.97 | 503.67 | 506.90 | 0.56 | ppb |
| Titanium | 47-1 | 5093.55 | 5097.56 | 5069.21 | 5086.77 | 0.30 | ppb |
| Uranium | 238-1 | 522.30 | 518.26 | 516.55 | 519.04 | 0.57 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 504.62 | 506.77 | 507.40 | 506.26 | 0.29 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 4770.55 | 4729.74 | 4816.06 | 4772.12 | 0.90 | ppb |
| Zirconium | 90-1 | 512.39 | 513.53 | 513.57 | 513.16 | 0.13 | ppb |
| Zirconium | 91-1 | 506.81 | 510.91 | 513.56 | 510.43 | 0.67 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.34 | 1.67 | 1.01 | 1.34 | 24.72 | ppb |
| Antimony | 121-1 | 0.16 | 0.13 | 0.12 | 0.14 | 16.32 | ppb |
| Arsenic | 75-2 | 0.04 | 0.00 | 0.02 | 0.02 | 110.44 | ppb |
| Barium | 135-1 | 0.12 | 0.09 | 0.09 | 0.10 | 17.53 | ppb |
| Barium | 137-1 | 0.14 | 0.09 | 0.09 | 0.11 | 25.59 | ppb |
| Beryllium | 9-1 | 0.17 | 0.15 | 0.14 | 0.15 | 8.08 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.04 | 0.03 | 0.06 | 69.29 | ppb |
| Cadmium | 106-1 | 0.46 | -0.26 | -0.13 | 0.02 | 1665.09 | ppb |
| Cadmium | 111-1 | 0.07 | 0.01 | 0.02 | 0.03 | 110.06 | ppb |
| Calcium | 43-1 | 14.20 | 7.88 | 6.61 | 9.56 | 42.49 | ppb |
| Calcium | 44-1 | 14.16 | 10.99 | 8.00 | 11.05 | 27.89 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | 0.01 | 0.00 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.02 | 0.02 | 6.29 | ppb |
| Copper | 63-2 | 0.34 | 0.28 | 0.25 | 0.29 | 15.64 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 4.23 | 4.48 | 3.99 | 4.23 | 5.88 | ppb |
| Iron | 56-2 | 4.23 | 4.22 | 4.23 | 4.23 | 0.11 | ppb |
| Iron | 57-2 | 4.00 | 2.85 | 3.02 | 3.29 | 18.96 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.30 | 0.25 | 0.23 | 0.26 | 14.34 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.29 | 0.26 | 0.22 | 0.26 | 14.11 | ppb |
| Lead | 208-1 | 0.30 | 0.25 | 0.23 | 0.26 | 13.99 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -2.81 | -3.35 | -2.29 | -2.82 | | ppb |
| Manganese | 55-2 | 0.19 | 0.20 | 0.20 | 0.19 | 3.68 | ppb |
| Molybdenum | 94-1 | 0.37 | 0.29 | 0.26 | 0.31 | 19.43 | ppb |
| Molybdenum | 95-1 | 0.35 | 0.24 | 0.21 | 0.27 | 26.84 | ppb |
| Molybdenum | 96-1 | 0.34 | 0.26 | 0.23 | 0.28 | 21.45 | ppb |
| Molybdenum | 97-1 | 0.35 | 0.28 | 0.24 | 0.29 | 18.53 | ppb |
| Molybdenum | 98-1 | 0.32 | 0.26 | 0.20 | 0.26 | 22.55 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.11 | 0.13 | 0.16 | 0.13 | 17.31 | ppb |
| Phosphorus | 31-2 | -30.79 | -30.98 | -26.60 | -29.46 | | ppb |
| Potassium | 39-2 | 27.87 | 28.98 | 26.56 | 27.81 | 4.36 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 0.16 | -0.13 | -0.11 | -0.03 | | ppb |
| Selenium | 77-2 | 0.00 | 1.34 | 0.00 | 0.45 | 173.21 | ppb |
| Selenium | 78-2 | -1.01 | -0.23 | -0.81 | -0.68 | | ppb |
| Silicon | 28-1 | 1.99 | 2.61 | 1.08 | 1.90 | 40.65 | ppb |
| Silver | 107-1 | 0.08 | 0.07 | 0.05 | 0.07 | 19.46 | ppb |
| Silver | 109-1 | 0.08 | 0.06 | 0.06 | 0.07 | 14.81 | ppb |
| Sodium | 23-2 | 51.02 | 46.06 | 46.96 | 48.02 | 5.51 | ppb |
| Strontium | 86-1 | 0.09 | 0.07 | 0.08 | 0.08 | 15.20 | ppb |
| Strontium | 88-1 | 0.12 | 0.09 | 0.08 | 0.10 | 20.43 | ppb |
| Sulfur | 34-1 | -800.53 | -431.41 | -623.80 | -618.58 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.06 | 0.04 | 0.04 | 0.05 | 20.95 | ppb |
| Thallium | 205-1 | 0.06 | 0.05 | 0.04 | 0.05 | 14.41 | ppb |
| Tin | 118-1 | 0.08 | 0.08 | 0.07 | 0.08 | 8.33 | ppb |
| Titanium | 47-1 | 0.25 | 0.19 | 0.15 | 0.19 | 26.08 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.01 | 0.02 | 26.80 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.02 | 0.02 | 0.02 | 8.70 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 0.04 | -0.07 | -0.16 | -0.06 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.04 | 0.03 | 0.04 | 26.01 | ppb |
| Zirconium | 91-1 | 0.05 | 0.03 | 0.03 | 0.04 | 27.93 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.13 | 3.26 | 2.94 | 3.11 | 5.11 | ppb |
| Antimony | 121-1 | 0.07 | 0.06 | 0.07 | 0.07 | 6.78 | ppb |
| Arsenic | 75-2 | 0.25 | 0.23 | 0.23 | 0.24 | 3.60 | ppb |
| Barium | 135-1 | 32.91 | 34.13 | 32.54 | 33.19 | 2.51 | ppb |
| Barium | 137-1 | 33.63 | 33.72 | 32.53 | 33.29 | 1.99 | ppb |
| Beryllium | 9-1 | 0.09 | 0.08 | 0.07 | 0.08 | 12.26 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.14 | 0.12 | 0.13 | 0.13 | 8.43 | ppb |
| Cadmium | 106-1 | 0.14 | -0.25 | -0.51 | -0.21 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.01 | -0.03 | -0.01 | | ppb |
| Calcium | 43-1 | 287266.78 | 288606.17 | 280490.48 | 285454.48 | 1.52 | ppb |
| Calcium | 44-1 | 284154.46 | 288557.78 | 278001.17 | 283571.14 | 1.87 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.00 | 0.02 | 0.01 | 153.04 | ppb |
| Cobalt | 59-2 | 1.72 | 1.68 | 1.76 | 1.72 | 2.33 | ppb |
| Copper | 63-2 | 0.22 | 0.22 | 0.27 | 0.24 | 11.29 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 788.72 | 774.57 | 835.21 | 799.50 | 3.97 | ppb |
| Iron | 56-2 | 810.53 | 819.08 | 863.51 | 831.04 | 3.42 | ppb |
| Iron | 57-2 | 789.50 | 779.10 | 846.93 | 805.18 | 4.54 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.17 | 0.16 | 0.14 | 0.16 | 7.29 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.19 | 0.15 | 0.15 | 0.16 | 13.87 | ppb |
| Lead | 208-1 | 0.17 | 0.15 | 0.15 | 0.16 | 9.83 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 71949.33 | 74160.92 | 75565.06 | 73891.77 | 2.47 | ppb |
| Manganese | 55-2 | 287.98 | 286.49 | 303.77 | 292.74 | 3.27 | ppb |
| Molybdenum | 94-1 | 4.45 | 4.23 | 4.16 | 4.28 | 3.51 | ppb |
| Molybdenum | 95-1 | 4.97 | 4.90 | 4.96 | 4.94 | 0.75 | ppb |
| Molybdenum | 96-1 | 4.90 | 4.80 | 4.83 | 4.84 | 0.98 | ppb |
| Molybdenum | 97-1 | 5.08 | 5.00 | 4.90 | 4.99 | 1.84 | ppb |
| Molybdenum | 98-1 | 4.92 | 4.81 | 4.88 | 4.87 | 1.17 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.96 | 1.91 | 1.89 | 1.92 | 1.92 | ppb |
| Phosphorus | 31-2 | -15.29 | -8.71 | -19.15 | -14.39 | | ppb |
| Potassium | 39-2 | 3071.57 | 3042.90 | 3253.91 | 3122.79 | 3.67 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 0.85 | 0.67 | 1.42 | 0.98 | 40.37 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.01 | -0.42 | 0.04 | -0.13 | | ppb |
| Silicon | 28-1 | 7345.78 | 7549.73 | 7107.64 | 7334.38 | 3.02 | ppb |
| Silver | 107-1 | 0.03 | 0.02 | 0.03 | 0.03 | 11.05 | ppb |
| Silver | 109-1 | 0.03 | 0.02 | 0.02 | 0.02 | 11.51 | ppb |
| Sodium | 23-2 | 54729.87 | 54416.12 | 57488.65 | 55544.88 | 3.04 | ppb |
| Strontium | 86-1 | 11281.11 | 11069.57 | 10882.82 | 11077.83 | 1.80 | ppb |
| Strontium | 88-1 | 11158.11 | 11075.93 | 11003.08 | 11079.04 | 0.70 | ppb |
| Sulfur | 34-1 | 228753.71 | 229758.06 | 224976.13 | 227829.30 | 1.11 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.05 | 0.05 | 0.05 | 0.05 | 4.34 | ppb |
| Thallium | 205-1 | 0.04 | 0.05 | 0.04 | 0.04 | 4.94 | ppb |
| Tin | 118-1 | 0.13 | 0.13 | 0.11 | 0.13 | 10.49 | ppb |
| Titanium | 47-1 | 0.63 | 0.60 | 0.61 | 0.61 | 2.96 | ppb |
| Uranium | 238-1 | 2.96 | 3.02 | 2.92 | 2.97 | 1.72 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.03 | 0.03 | 3.84 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 0.54 | 0.63 | 0.71 | 0.63 | 13.48 | ppb |
| Zirconium | 90-1 | 0.11 | 0.09 | 0.09 | 0.10 | 12.40 | ppb |
| Zirconium | 91-1 | 0.11 | 0.09 | 0.10 | 0.10 | 11.20 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7.70 | 8.11 | 8.02 | 7.94 | 2.66 | ppb |
| Antimony | 121-1 | 0.05 | 0.05 | 0.06 | 0.05 | 4.70 | ppb |
| Arsenic | 75-2 | 1.47 | 1.40 | 1.45 | 1.44 | 2.24 | ppb |
| Barium | 135-1 | 68.30 | 68.90 | 69.02 | 68.74 | 0.56 | ppb |
| Barium | 137-1 | 68.80 | 70.03 | 68.47 | 69.10 | 1.19 | ppb |
| Beryllium | 9-1 | 0.06 | 0.07 | 0.05 | 0.06 | 17.03 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.19 | 0.23 | 0.17 | 0.20 | 16.28 | ppb |
| Cadmium | 106-1 | 0.65 | 0.37 | -0.33 | 0.23 | 220.64 | ppb |
| Cadmium | 111-1 | 0.06 | 0.03 | -0.02 | 0.02 | 201.48 | ppb |
| Calcium | 43-1 | 180861.03 | 179766.28 | 178933.39 | 179853.57 | 0.54 | ppb |
| Calcium | 44-1 | 177215.60 | 175796.60 | 176433.79 | 176482.00 | 0.40 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.13 | 0.13 | 0.15 | 0.14 | 10.93 | ppb |
| Cobalt | 59-2 | 1.28 | 1.28 | 1.29 | 1.28 | 0.67 | ppb |
| Copper | 63-2 | 0.19 | 0.22 | 0.25 | 0.22 | 14.78 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 557.36 | 564.39 | 577.13 | 566.29 | 1.77 | ppb |
| Iron | 56-2 | 572.76 | 594.12 | 615.56 | 594.15 | 3.60 | ppb |
| Iron | 57-2 | 555.11 | 565.88 | 575.78 | 565.59 | 1.83 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.12 | 0.12 | 0.12 | 1.65 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.13 | 0.14 | 0.13 | 5.91 | ppb |
| Lead | 208-1 | 0.12 | 0.12 | 0.12 | 0.12 | 0.54 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 76939.14 | 79210.62 | 80114.73 | 78754.83 | 2.08 | ppb |
| Manganese | 55-2 | 146.05 | 147.55 | 153.44 | 149.01 | 2.62 | ppb |
| Molybdenum | 94-1 | 8.90 | 8.88 | 9.12 | 8.96 | 1.51 | ppb |
| Molybdenum | 95-1 | 10.44 | 10.70 | 10.70 | 10.61 | 1.43 | ppb |
| Molybdenum | 96-1 | 10.28 | 10.40 | 10.40 | 10.36 | 0.64 | ppb |
| Molybdenum | 97-1 | 10.54 | 10.77 | 10.47 | 10.59 | 1.47 | ppb |
| Molybdenum | 98-1 | 10.37 | 10.47 | 10.62 | 10.49 | 1.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.13 | 3.17 | 3.32 | 3.21 | 3.06 | ppb |
| Phosphorus | 31-2 | -14.22 | -17.90 | -6.05 | -12.73 | | ppb |
| Potassium | 39-2 | 2811.44 | 2847.88 | 2990.18 | 2883.17 | 3.28 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.53 | 0.31 | 0.38 | 0.41 | 27.32 | ppb |
| Selenium | 77-2 | 0.65 | 0.00 | 0.00 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | 0.13 | 0.34 | 0.20 | 0.22 | 48.13 | ppb |
| Silicon | 28-1 | 6683.22 | 6698.36 | 6650.01 | 6677.20 | 0.37 | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.02 | 0.02 | 10.68 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 3.01 | ppb |
| Sodium | 23-2 | 29692.92 | 30187.45 | 30924.82 | 30268.40 | 2.05 | ppb |
| Strontium | 86-1 | 6212.77 | 6296.41 | 6230.55 | 6246.58 | 0.71 | ppb |
| Strontium | 88-1 | 6194.42 | 6251.36 | 6221.18 | 6222.32 | 0.46 | ppb |
| Sulfur | 34-1 | 130928.09 | 129938.37 | 129218.57 | 130028.34 | 0.66 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.05 | 0.05 | 0.04 | 0.05 | 6.22 | ppb |
| Thallium | 205-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.28 | ppb |
| Tin | 118-1 | 0.13 | 0.11 | 0.11 | 0.12 | 9.32 | ppb |
| Titanium | 47-1 | 0.70 | 0.67 | 0.72 | 0.70 | 3.48 | ppb |
| Uranium | 238-1 | 14.74 | 14.92 | 15.10 | 14.92 | 1.21 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.05 | 0.04 | 0.04 | 0.05 | 3.86 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 1.81 | 1.88 | 1.85 | 1.84 | 1.99 | ppb |
| Zirconium | 90-1 | 0.14 | 0.15 | 0.15 | 0.15 | 3.61 | ppb |
| Zirconium | 91-1 | 0.15 | 0.16 | 0.16 | 0.16 | 4.47 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.90 | 5.15 | 5.31 | 5.12 | 4.05 | ppb |
| Antimony | 121-1 | 0.05 | 0.04 | 0.04 | 0.04 | 20.58 | ppb |
| Arsenic | 75-2 | 1.63 | 1.67 | 1.14 | 1.48 | 19.87 | ppb |
| Barium | 135-1 | 88.73 | 72.72 | 68.32 | 76.59 | 14.02 | ppb |
| Barium | 137-1 | 89.06 | 72.02 | 69.54 | 76.87 | 13.82 | ppb |
| Beryllium | 9-1 | 0.06 | 0.05 | 0.04 | 0.05 | 23.54 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.17 | 0.13 | 0.16 | 0.16 | 11.51 | ppb |
| Cadmium | 106-1 | 0.22 | 0.80 | 0.40 | 0.47 | 63.07 | ppb |
| Cadmium | 111-1 | 0.04 | 0.06 | 0.04 | 0.05 | 28.64 | ppb |
| Calcium | 43-1 | 238356.22 | 185557.10 | 182787.48 | 202233.60 | 15.48 | ppb |
| Calcium | 44-1 | 232551.15 | 184073.42 | 177023.65 | 197882.74 | 15.28 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | -0.01 | -0.03 | 0.00 | | ppb |
| Cobalt | 59-2 | 1.25 | 1.27 | 1.25 | 1.26 | 1.21 | ppb |
| Copper | 63-2 | 0.21 | 0.20 | 0.19 | 0.20 | 5.47 | 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 | | | | 102 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 596.94 | 577.31 | 574.64 | 582.96 | 2.09 | ppb |
| Iron | 56-2 | 609.02 | 618.26 | 604.11 | 610.46 | 1.18 | ppb |
| Iron | 57-2 | 602.73 | 580.80 | 572.72 | 585.42 | 2.65 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.17 | 0.12 | 0.11 | 0.13 | 20.97 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.16 | 0.12 | 0.12 | 0.13 | 17.43 | ppb |
| Lead | 208-1 | 0.17 | 0.12 | 0.11 | 0.13 | 22.40 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 81103.93 | 82651.59 | 81353.61 | 81703.04 | 1.02 | ppb |
| Manganese | 55-2 | 154.60 | 152.55 | 148.67 | 151.94 | 1.98 | ppb |
| Molybdenum | 94-1 | 11.69 | 9.23 | 8.94 | 9.95 | 15.18 | ppb |
| Molybdenum | 95-1 | 13.87 | 11.09 | 10.52 | 11.83 | 15.15 | ppb |
| Molybdenum | 96-1 | 13.31 | 10.51 | 10.31 | 11.38 | 14.76 | ppb |
| Molybdenum | 97-1 | 13.95 | 10.95 | 10.72 | 11.87 | 15.16 | ppb |
| Molybdenum | 98-1 | 13.60 | 10.88 | 10.37 | 11.62 | 14.97 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.92 | 3.09 | 2.97 | 3.00 | 2.92 | ppb |
| Phosphorus | 31-2 | -15.76 | -20.43 | -19.08 | -18.42 | | ppb |
| Potassium | 39-2 | 3045.84 | 3002.29 | 2954.85 | 3000.99 | 1.52 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.13 | 0.56 | 0.09 | 0.26 | 100.78 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | 0.60 | -0.81 | -0.42 | -0.21 | | ppb |
| Silicon | 28-1 | 8719.97 | 6986.40 | 6752.43 | 7486.27 | 14.36 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 10.87 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.01 | 0.01 | 33.73 | ppb |
| Sodium | 23-2 | 32308.11 | 31997.43 | 32098.64 | 32134.73 | 0.49 | ppb |
| Strontium | 86-1 | 8583.85 | 6696.01 | 6470.25 | 7250.03 | 16.01 | ppb |
| Strontium | 88-1 | 8504.11 | 6734.24 | 6427.47 | 7221.94 | 15.52 | ppb |
| Sulfur | 34-1 | 177637.20 | 135491.84 | 132166.60 | 148431.88 | 17.08 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.05 | 0.03 | 0.04 | 0.04 | 20.88 | ppb |
| Thallium | 205-1 | 0.06 | 0.04 | 0.04 | 0.05 | 24.82 | ppb |
| Tin | 118-1 | 0.30 | 0.22 | 0.21 | 0.25 | 20.90 | ppb |
| Titanium | 47-1 | 0.82 | 0.62 | 0.59 | 0.68 | 18.92 | ppb |
| Uranium | 238-1 | 19.19 | 15.12 | 14.91 | 16.41 | 14.73 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.05 | 0.05 | 0.03 | 0.04 | 28.75 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 1.16 | 1.04 | 1.16 | 1.12 | 6.02 | ppb |
| Zirconium | 90-1 | 0.15 | 0.12 | 0.12 | 0.13 | 12.90 | ppb |
| Zirconium | 91-1 | 0.17 | 0.13 | 0.11 | 0.13 | 23.04 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9.44 | 8.55 | 8.26 | 8.75 | 7.08 | ppb |
| Antimony | 121-1 | 0.01 | 0.02 | 0.01 | 0.01 | 2.66 | ppb |
| Arsenic | 75-2 | 0.12 | 0.06 | 0.03 | 0.07 | 69.42 | ppb |
| Barium | 135-1 | 24.01 | 20.87 | 21.00 | 21.96 | 8.10 | ppb |
| Barium | 137-1 | 23.91 | 20.57 | 21.27 | 21.92 | 8.02 | ppb |
| Beryllium | 9-1 | 0.06 | 0.05 | 0.05 | 0.05 | 11.89 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.12 | 0.07 | 0.12 | 0.10 | 24.62 | ppb |
| Cadmium | 106-1 | 1.00 | 0.68 | 0.77 | 0.81 | 20.18 | ppb |
| Cadmium | 111-1 | 0.09 | 0.06 | 0.06 | 0.07 | 19.16 | ppb |
| Calcium | 43-1 | 299306.88 | 260158.30 | 263340.98 | 274268.72 | 7.93 | ppb |
| Calcium | 44-1 | 292491.28 | 250026.37 | 255364.00 | 265960.55 | 8.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | 0.01 | -0.04 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.05 | 0.04 | 0.05 | 0.05 | 7.81 | ppb |
| Copper | 63-2 | 0.21 | 0.22 | 0.26 | 0.23 | 12.17 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 1960.09 | 2008.31 | 1977.53 | 1981.97 | 1.23 | ppb |
| Iron | 56-2 | 2079.03 | 2095.23 | 2042.56 | 2072.28 | 1.30 | ppb |
| Iron | 57-2 | 2029.37 | 2013.68 | 1958.88 | 2000.64 | 1.85 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.13 | 0.09 | 0.09 | 0.10 | 19.66 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.09 | 0.09 | 0.10 | 15.59 | ppb |
| Lead | 208-1 | 0.12 | 0.10 | 0.09 | 0.10 | 13.80 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 91021.49 | 91160.03 | 90680.92 | 90954.15 | 0.27 | ppb |
| Manganese | 55-2 | 46.34 | 46.56 | 46.67 | 46.52 | 0.37 | ppb |
| Molybdenum | 94-1 | 7.98 | 6.88 | 7.13 | 7.33 | 7.89 | ppb |
| Molybdenum | 95-1 | 9.41 | 8.11 | 8.55 | 8.69 | 7.62 | ppb |
| Molybdenum | 96-1 | 9.17 | 7.85 | 8.21 | 8.41 | 8.08 | ppb |
| Molybdenum | 97-1 | 9.16 | 8.07 | 8.62 | 8.62 | 6.30 | ppb |
| Molybdenum | 98-1 | 9.18 | 8.10 | 8.32 | 8.53 | 6.70 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.20 | 0.19 | 0.16 | 0.18 | 11.98 | ppb |
| Phosphorus | 31-2 | -3.62 | -14.60 | -15.32 | -11.18 | | ppb |
| Potassium | 39-2 | 4573.69 | 4549.97 | 4526.80 | 4550.15 | 0.52 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.14 | 0.63 | 0.47 | 0.41 | 60.61 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.60 | 0.02 | -0.01 | -0.20 | | ppb |
| Silicon | 28-1 | 11355.07 | 9777.59 | 9997.06 | 10376.57 | 8.23 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.04 | 0.03 | 31.32 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.02 | 0.02 | 13.10 | ppb |
| Sodium | 23-2 | 112626.38 | 113541.14 | 111807.76 | 112658.43 | 0.77 | ppb |
| Strontium | 86-1 | 23366.41 | 20108.11 | 21055.28 | 21509.93 | 7.79 | ppb |
| Strontium | 88-1 | 23062.35 | 20296.15 | 20686.94 | 21348.48 | 7.01 | ppb |
| Sulfur | 34-1 | 266789.45 | 231994.63 | 237003.19 | 245262.43 | 7.67 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 48.81 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.01 | 0.01 | 17.29 | ppb |
| Tin | 118-1 | 0.20 | 0.12 | 0.16 | 0.16 | 22.64 | ppb |
| Titanium | 47-1 | 1.08 | 0.96 | 0.92 | 0.99 | 8.22 | ppb |
| Uranium | 238-1 | 0.69 | 0.61 | 0.60 | 0.63 | 8.15 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.15 | 0.16 | 0.14 | 0.15 | 6.18 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 0.90 | 0.93 | 0.95 | 0.93 | 2.95 | ppb |
| Zirconium | 90-1 | 0.12 | 0.10 | 0.11 | 0.11 | 7.61 | ppb |
| Zirconium | 91-1 | 0.13 | 0.11 | 0.11 | 0.11 | 12.67 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 302.51 | 300.07 | 296.11 | 299.56 | 1.08 | ppb |
| Antimony | 121-1 | 0.02 | 0.03 | 0.03 | 0.03 | 12.55 | ppb |
| Arsenic | 75-2 | 0.44 | 0.43 | 0.46 | 0.44 | 2.88 | ppb |
| Barium | 135-1 | 15.87 | 16.10 | 16.18 | 16.05 | 1.00 | ppb |
| Barium | 137-1 | 15.93 | 16.13 | 16.22 | 16.09 | 0.91 | ppb |
| Beryllium | 9-1 | 0.04 | 0.05 | 0.04 | 0.04 | 13.99 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.09 | 0.12 | 0.09 | 46.74 | ppb |
| Cadmium | 106-1 | 0.82 | 0.21 | -0.45 | 0.19 | 325.00 | ppb |
| Cadmium | 111-1 | 0.08 | 0.03 | -0.03 | 0.03 | 194.79 | ppb |
| Calcium | 43-1 | 429922.43 | 426349.74 | 444521.03 | 433597.74 | 2.22 | ppb |
| Calcium | 44-1 | 419274.93 | 417331.01 | 431252.24 | 422619.40 | 1.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.73 | 0.71 | 0.71 | 0.72 | 1.31 | ppb |
| Cobalt | 59-2 | 0.44 | 0.44 | 0.44 | 0.44 | 0.64 | ppb |
| Copper | 63-2 | 0.71 | 0.73 | 0.71 | 0.72 | 1.30 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 4367.96 | 4334.38 | 4306.90 | 4336.41 | 0.71 | ppb |
| Iron | 56-2 | 4491.08 | 4557.18 | 4503.59 | 4517.28 | 0.78 | ppb |
| Iron | 57-2 | 4314.58 | 4339.09 | 4357.19 | 4336.95 | 0.49 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.33 | 0.34 | 0.34 | 0.34 | 1.01 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.30 | 0.32 | 0.34 | 0.32 | 5.36 | ppb |
| Lead | 208-1 | 0.32 | 0.33 | 0.34 | 0.33 | 2.98 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 133753.77 | 136241.51 | 131664.04 | 133886.44 | 1.71 | ppb |
| Manganese | 55-2 | 114.55 | 117.64 | 115.99 | 116.06 | 1.33 | ppb |
| Molybdenum | 94-1 | 3.79 | 3.89 | 3.92 | 3.87 | 1.69 | ppb |
| Molybdenum | 95-1 | 3.87 | 3.79 | 3.83 | 3.83 | 0.99 | ppb |
| Molybdenum | 96-1 | 3.65 | 3.75 | 3.83 | 3.74 | 2.40 | ppb |
| Molybdenum | 97-1 | 3.81 | 3.80 | 3.82 | 3.81 | 0.24 | ppb |
| Molybdenum | 98-1 | 3.75 | 3.83 | 3.86 | 3.81 | 1.56 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.38 | 1.22 | 1.23 | 1.28 | 7.02 | ppb |
| Phosphorus | 31-2 | 25.29 | 25.61 | 16.36 | 22.42 | 23.41 | ppb |
| Potassium | 39-2 | 5972.78 | 6054.56 | 5940.84 | 5989.40 | 0.98 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.35 | 0.34 | 0.65 | 0.45 | 39.40 | ppb |
| Selenium | 77-2 | 0.69 | 0.69 | 0.69 | 0.69 | 0.34 | ppb |
| Selenium | 78-2 | -0.40 | -0.40 | -0.40 | -0.40 | | ppb |
| Silicon | 28-1 | 7930.49 | 7886.38 | 8002.43 | 7939.77 | 0.74 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.82 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.65 | ppb |
| Sodium | 23-2 | 49599.00 | 49435.70 | 49521.56 | 49518.75 | 0.16 | ppb |
| Strontium | 86-1 | 12744.10 | 12749.94 | 12860.48 | 12784.84 | 0.51 | ppb |
| Strontium | 88-1 | 12550.53 | 12602.39 | 12665.29 | 12606.07 | 0.46 | ppb |
| Sulfur | 34-1 | 505691.71 | 500285.30 | 515344.42 | 507107.14 | 1.50 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 9.45 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.02 | 0.02 | 12.42 | ppb |
| Tin | 118-1 | 0.33 | 0.36 | 0.35 | 0.35 | 3.82 | ppb |
| Titanium | 47-1 | 8.04 | 8.00 | 8.33 | 8.12 | 2.22 | ppb |
| Uranium | 238-1 | 0.38 | 0.40 | 0.39 | 0.39 | 2.88 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.84 | 0.86 | 0.90 | 0.87 | 3.48 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 1.55 | 1.40 | 1.57 | 1.51 | 6.04 | ppb |
| Zirconium | 90-1 | 0.37 | 0.38 | 0.38 | 0.37 | 2.23 | ppb |
| Zirconium | 91-1 | 0.38 | 0.35 | 0.39 | 0.38 | 6.01 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5.29 | 4.67 | 5.07 | 5.01 | 6.32 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 12.66 | ppb |
| Arsenic | 75-2 | 0.24 | 0.22 | 0.16 | 0.20 | 19.96 | ppb |
| Barium | 135-1 | 47.11 | 47.24 | 47.22 | 47.19 | 0.15 | ppb |
| Barium | 137-1 | 48.02 | 48.57 | 47.52 | 48.04 | 1.10 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.03 | 0.03 | 14.28 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.01 | 0.03 | 0.02 | 57.57 | ppb |
| Cadmium | 106-1 | 0.68 | 0.95 | 0.18 | 0.60 | 64.80 | ppb |
| Cadmium | 111-1 | 0.05 | 0.07 | 0.01 | 0.05 | 67.15 | ppb |
| Calcium | 43-1 | 324397.24 | 319993.69 | 316670.06 | 320353.66 | 1.21 | ppb |
| Calcium | 44-1 | 318564.32 | 309908.03 | 306442.69 | 311638.35 | 2.00 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.12 | 0.13 | 0.13 | 0.13 | 4.85 | ppb |
| Cobalt | 59-2 | 0.06 | 0.05 | 0.05 | 0.05 | 5.91 | ppb |
| Copper | 63-2 | 0.25 | 0.26 | 0.24 | 0.25 | 4.26 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 171.90 | 168.73 | 164.19 | 168.27 | 2.30 | ppb |
| Iron | 56-2 | 167.48 | 170.17 | 166.19 | 167.94 | 1.21 | ppb |
| Iron | 57-2 | 175.96 | 175.61 | 180.85 | 177.47 | 1.65 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.22 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.08 | 0.08 | 0.08 | 5.67 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.08 | 0.08 | 1.18 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 87018.40 | 84644.80 | 82831.03 | 84831.41 | 2.48 | ppb |
| Manganese | 55-2 | 132.82 | 133.89 | 131.60 | 132.77 | 0.86 | ppb |
| Molybdenum | 94-1 | 0.43 | 0.41 | 0.43 | 0.43 | 2.49 | ppb |
| Molybdenum | 95-1 | 0.24 | 0.24 | 0.24 | 0.24 | 1.70 | ppb |
| Molybdenum | 96-1 | 0.24 | 0.26 | 0.24 | 0.25 | 6.25 | ppb |
| Molybdenum | 97-1 | 0.22 | 0.22 | 0.24 | 0.23 | 4.31 | ppb |
| Molybdenum | 98-1 | 0.23 | 0.21 | 0.22 | 0.22 | 5.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.26 | 0.21 | 0.29 | 0.25 | 15.48 | ppb |
| Phosphorus | 31-2 | 13.63 | 14.75 | 13.89 | 14.09 | 4.15 | ppb |
| Potassium | 39-2 | 5837.73 | 5884.23 | 5770.71 | 5830.89 | 0.98 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.28 | 0.53 | 0.66 | 0.49 | 39.52 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.41 | 0.21 | -0.41 | -0.21 | | ppb |
| Silicon | 28-1 | 6233.12 | 5867.30 | 5914.20 | 6004.87 | 3.31 | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.02 | 0.02 | 16.66 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.27 | ppb |
| Sodium | 23-2 | 74540.09 | 73023.42 | 72653.41 | 73405.64 | 1.36 | ppb |
| Strontium | 86-1 | 14531.06 | 14855.88 | 14755.98 | 14714.31 | 1.13 | ppb |
| Strontium | 88-1 | 14854.45 | 14937.27 | 14808.85 | 14866.86 | 0.44 | ppb |
| Sulfur | 34-1 | 313110.67 | 304019.80 | 302496.19 | 306542.22 | 1.87 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.01 | 0.01 | 33.02 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.01 | 0.01 | 22.55 | ppb |
| Tin | 118-1 | 0.30 | 0.29 | 0.28 | 0.29 | 2.79 | ppb |
| Titanium | 47-1 | 0.64 | 0.66 | 0.61 | 0.64 | 4.35 | ppb |
| Uranium | 238-1 | 0.03 | 0.03 | 0.03 | 0.03 | 1.49 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.13 | 0.14 | 0.12 | 0.13 | 6.12 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.10 | 0.13 | 0.00 | 0.08 | 88.95 | ppb |
| Zirconium | 90-1 | 0.12 | 0.13 | 0.13 | 0.13 | 6.22 | ppb |
| Zirconium | 91-1 | 0.13 | 0.13 | 0.13 | 0.13 | 2.37 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 88.08 | 90.84 | 90.13 | 89.68 | 1.60 | ppb |
| Antimony | 121-1 | 0.23 | 0.25 | 0.26 | 0.25 | 6.79 | ppb |
| Arsenic | 75-2 | 0.27 | 0.33 | 0.25 | 0.28 | 13.49 | ppb |
| Barium | 135-1 | 9.51 | 9.90 | 10.70 | 10.04 | 6.07 | ppb |
| Barium | 137-1 | 9.40 | 10.00 | 10.55 | 9.98 | 5.77 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.04 | 0.04 | 1.84 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.13 | 0.10 | 0.04 | 0.09 | 52.64 | ppb |
| Cadmium | 106-1 | 0.58 | 0.32 | 0.02 | 0.31 | 91.96 | ppb |
| Cadmium | 111-1 | 0.09 | 0.08 | 0.06 | 0.08 | 17.63 | ppb |
| Calcium | 43-1 | 451202.88 | 470942.52 | 497065.69 | 473070.36 | 4.86 | ppb |
| Calcium | 44-1 | 439881.90 | 463886.21 | 489257.47 | 464341.86 | 5.32 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.23 | 0.21 | 0.23 | 0.23 | 4.99 | ppb |
| Cobalt | 59-2 | 0.29 | 0.30 | 0.29 | 0.29 | 1.97 | ppb |
| Copper | 63-2 | 1.56 | 1.65 | 1.58 | 1.60 | 2.78 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 2527.34 | 2583.39 | 2591.28 | 2567.33 | 1.36 | ppb |
| Iron | 56-2 | 2619.20 | 2726.22 | 2712.55 | 2685.99 | 2.17 | ppb |
| Iron | 57-2 | 2527.33 | 2587.45 | 2595.43 | 2570.07 | 1.45 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.41 | 0.39 | 0.43 | 0.41 | 4.82 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.37 | 0.37 | 0.42 | 0.38 | 7.06 | ppb |
| Lead | 208-1 | 0.38 | 0.38 | 0.42 | 0.39 | 6.09 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 91426.80 | 93173.56 | 95401.04 | 93333.80 | 2.13 | ppb |
| Manganese | 55-2 | 106.54 | 109.86 | 109.75 | 108.72 | 1.73 | ppb |
| Molybdenum | 94-1 | 2.41 | 2.51 | 2.65 | 2.52 | 4.65 | ppb |
| Molybdenum | 95-1 | 2.62 | 2.79 | 2.82 | 2.74 | 3.92 | ppb |
| Molybdenum | 96-1 | 2.58 | 2.71 | 2.79 | 2.69 | 3.86 | ppb |
| Molybdenum | 97-1 | 2.66 | 2.85 | 2.87 | 2.79 | 4.18 | ppb |
| Molybdenum | 98-1 | 2.60 | 2.70 | 2.81 | 2.70 | 4.00 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.31 | 1.38 | 1.31 | 1.34 | 3.00 | ppb |
| Phosphorus | 31-2 | 54.52 | 55.51 | 69.69 | 59.91 | 14.16 | ppb |
| Potassium | 39-2 | 3876.54 | 3988.76 | 4062.01 | 3975.77 | 2.35 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.08 | 0.39 | 0.48 | 0.32 | 65.94 | ppb |
| Selenium | 77-2 | 0.67 | 0.70 | 0.00 | 0.46 | 86.65 | ppb |
| Selenium | 78-2 | -0.81 | -0.60 | 0.22 | -0.40 | | ppb |
| Silicon | 28-1 | 8782.07 | 9213.14 | 9820.50 | 9271.90 | 5.63 | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.01 | 0.02 | 18.41 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 23.46 | ppb |
| Sodium | 23-2 | 21062.64 | 21559.43 | 22012.56 | 21544.88 | 2.21 | ppb |
| Strontium | 86-1 | 15379.99 | 15996.65 | 16592.38 | 15989.67 | 3.79 | ppb |
| Strontium | 88-1 | 15382.76 | 15918.96 | 16609.88 | 15970.53 | 3.85 | ppb |
| Sulfur | 34-1 | 444163.54 | 460698.49 | 490287.81 | 465049.95 | 5.02 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.01 | 0.01 | 0.01 | 42.49 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.30 | ppb |
| Tin | 118-1 | 0.17 | 0.16 | 0.18 | 0.17 | 7.36 | ppb |
| Titanium | 47-1 | 2.69 | 2.75 | 2.98 | 2.81 | 5.32 | ppb |
| Uranium | 238-1 | 0.19 | 0.20 | 0.21 | 0.20 | 6.20 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.30 | 0.30 | 0.28 | 0.29 | 3.96 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 4.81 | 4.80 | 4.84 | 4.82 | 0.45 | ppb |
| Zirconium | 90-1 | 0.11 | 0.13 | 0.13 | 0.12 | 6.37 | ppb |
| Zirconium | 91-1 | 0.13 | 0.13 | 0.14 | 0.13 | 3.69 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12.80 | 11.64 | 12.56 | 12.33 | 4.94 | ppb |
| Antimony | 121-1 | 1.49 | 1.40 | 1.48 | 1.46 | 3.29 | ppb |
| Arsenic | 75-2 | 0.08 | 0.07 | 0.14 | 0.10 | 39.40 | ppb |
| Barium | 135-1 | 35.93 | 33.87 | 35.95 | 35.25 | 3.38 | ppb |
| Barium | 137-1 | 36.44 | 34.47 | 36.27 | 35.73 | 3.05 | ppb |
| Beryllium | 9-1 | 0.04 | 0.02 | 0.02 | 0.03 | 30.06 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.02 | 0.02 | 0.02 | 16.40 | ppb |
| Cadmium | 106-1 | 1.08 | 0.50 | 1.07 | 0.88 | 37.52 | ppb |
| Cadmium | 111-1 | 0.09 | 0.04 | 0.09 | 0.07 | 39.06 | ppb |
| Calcium | 43-1 | 31801.44 | 30141.61 | 31727.29 | 31223.45 | 3.00 | ppb |
| Calcium | 44-1 | 31374.68 | 29435.98 | 31222.45 | 30677.70 | 3.51 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | 0.02 | -0.01 | 0.00 | | ppb |
| Cobalt | 59-2 | 0.08 | 0.08 | 0.08 | 0.08 | 5.22 | ppb |
| Copper | 63-2 | 2.46 | 2.46 | 2.43 | 2.45 | 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 | | | | 102 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 4.67 | 3.75 | 3.51 | 3.98 | 15.44 | ppb |
| Iron | 56-2 | 3.55 | 3.62 | 3.58 | 3.58 | 0.98 | ppb |
| Iron | 57-2 | 3.46 | 4.51 | 4.20 | 4.06 | 13.24 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.07 | 0.08 | 0.08 | 8.42 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.08 | 0.08 | 0.08 | 6.69 | ppb |
| Lead | 208-1 | 0.09 | 0.07 | 0.08 | 0.08 | 8.55 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 10649.41 | 10522.33 | 10715.51 | 10629.08 | 0.92 | ppb |
| Manganese | 55-2 | 6.08 | 6.15 | 6.13 | 6.12 | 0.52 | ppb |
| Molybdenum | 94-1 | 0.45 | 0.37 | 0.43 | 0.42 | 10.58 | ppb |
| Molybdenum | 95-1 | 0.43 | 0.44 | 0.45 | 0.44 | 1.83 | ppb |
| Molybdenum | 96-1 | 0.44 | 0.45 | 0.44 | 0.44 | 1.00 | ppb |
| Molybdenum | 97-1 | 0.43 | 0.44 | 0.46 | 0.44 | 2.58 | ppb |
| Molybdenum | 98-1 | 0.45 | 0.42 | 0.44 | 0.44 | 2.74 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.03 | 1.02 | 1.03 | 1.03 | 0.85 | ppb |
| Phosphorus | 31-2 | 224.32 | 201.09 | 181.63 | 202.35 | 10.56 | ppb |
| Potassium | 39-2 | 1896.91 | 1850.86 | 1856.97 | 1868.25 | 1.34 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.23 | 0.23 | -0.07 | 0.13 | 129.26 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.80 | -0.41 | -0.20 | -0.47 | | ppb |
| Silicon | 28-1 | 2645.75 | 2512.18 | 2612.46 | 2590.13 | 2.68 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.13 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.02 | 0.02 | 24.45 | ppb |
| Sodium | 23-2 | 45516.56 | 45751.67 | 45244.16 | 45504.13 | 0.56 | ppb |
| Strontium | 86-1 | 173.17 | 164.61 | 172.61 | 170.13 | 2.81 | ppb |
| Strontium | 88-1 | 179.42 | 170.33 | 177.31 | 175.69 | 2.71 | ppb |
| Sulfur | 34-1 | 18560.43 | 17033.25 | 17628.44 | 17740.71 | 4.34 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.02 | 0.02 | 17.90 | ppb |
| Thallium | 205-1 | 0.01 | 0.02 | 0.02 | 0.02 | 16.05 | ppb |
| Tin | 118-1 | 0.10 | 0.08 | 0.10 | 0.09 | 7.66 | ppb |
| Titanium | 47-1 | 0.40 | 0.41 | 0.41 | 0.41 | 0.72 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.40 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.09 | 0.09 | 0.09 | 1.98 | 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 | 4.09 | 3.73 | 3.97 | 3.93 | 4.59 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 16.10 | ppb |
| Zirconium | 91-1 | 0.03 | 0.02 | 0.03 | 0.02 | 23.97 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22.79 | 22.10 | 21.90 | 22.26 | 2.08 | ppb |
| Antimony | 121-1 | 0.16 | 0.28 | 40.60 | 13.68 | 170.47 | ppb |
| Arsenic | 75-2 | 0.16 | 0.13 | 0.15 | 0.15 | 9.04 | ppb |
| Barium | 135-1 | 37.50 | 64.34 | 9290.07 | 3130.64 | 170.39 | ppb |
| Barium | 137-1 | 37.97 | 64.04 | 9315.25 | 3139.09 | 170.39 | ppb |
| Beryllium | 9-1 | 0.03 | 0.08 | 2.97 | 1.03 | 164.28 | ppb |
| Bismuth | 209-1 | | | | 52 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.09 | 13.81 | 4.64 | 171.42 | ppb |
| Cadmium | 106-1 | 1.00 | 1.57 | 11.85 | 4.80 | 127.14 | ppb |
| Cadmium | 111-1 | 0.09 | 0.14 | 2.17 | 0.80 | 148.19 | ppb |
| Calcium | 43-1 | 29456.11 | 47067.80 | 4898101.38 | 1658208.43 | 169.21 | ppb |
| Calcium | 44-1 | 29026.88 | 46401.18 | 4712789.44 | 1596072.50 | 169.11 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.07 | -0.05 | -0.03 | -0.05 | | ppb |
| Cobalt | 59-2 | 0.14 | 0.16 | 0.16 | 0.15 | 8.71 | ppb |
| Copper | 63-2 | 77.62 | 76.04 | 77.15 | 76.94 | 1.05 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 57 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 57 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 9.34 | 8.69 | 8.27 | 8.77 | 6.17 | ppb |
| Iron | 56-2 | 8.55 | 8.48 | 8.58 | 8.54 | 0.63 | ppb |
| Iron | 57-2 | 8.31 | 8.67 | 9.80 | 8.92 | 8.69 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.20 | 0.39 | 59.39 | 19.99 | 170.66 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.21 | 0.40 | 58.06 | 19.56 | 170.49 | ppb |
| Lead | 208-1 | 0.20 | 0.39 | 58.01 | 19.54 | 170.55 | ppb |
| Lithium | 6-1 | | | | 59 | | % |
| Magnesium | 24-2 | 10856.88 | 10930.86 | 10930.36 | 10906.04 | 0.39 | ppb |
| Manganese | 55-2 | 9.69 | 9.52 | 9.50 | 9.57 | 1.06 | ppb |
| Molybdenum | 94-1 | 0.41 | 0.68 | 100.49 | 33.86 | 170.44 | ppb |
| Molybdenum | 95-1 | 0.43 | 0.70 | 104.76 | 35.30 | 170.43 | ppb |
| Molybdenum | 96-1 | 0.43 | 0.67 | 100.41 | 33.84 | 170.39 | ppb |
| Molybdenum | 97-1 | 0.42 | 0.80 | 101.20 | 34.14 | 170.11 | ppb |
| Molybdenum | 98-1 | 0.43 | 0.69 | 97.42 | 32.84 | 170.26 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.51 | 0.44 | 0.55 | 0.50 | 11.06 | ppb |
| Phosphorus | 31-2 | 211.88 | 187.74 | 205.56 | 201.73 | 6.20 | ppb |
| Potassium | 39-2 | 1926.52 | 1901.79 | 1932.11 | 1920.14 | 0.84 | ppb |
| Rhodium | 103-1 | | | | 55 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 57 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | -0.08 | 0.33 | 76.91 | 25.72 | 172.35 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.40 | -0.60 | -0.38 | -0.46 | | ppb |
| Silicon | 28-1 | 2474.75 | 3976.44 | 408938.70 | 138463.30 | 169.17 | ppb |
| Silver | 107-1 | 0.02 | 0.03 | 4.63 | 1.56 | 170.58 | ppb |
| Silver | 109-1 | 0.01 | 0.03 | 4.94 | 1.66 | 170.74 | ppb |
| Sodium | 23-2 | 47223.92 | 46459.63 | 46449.28 | 46710.94 | 0.95 | ppb |
| Strontium | 86-1 | 163.75 | 265.73 | 37724.10 | 12717.86 | 170.28 | ppb |
| Strontium | 88-1 | 171.62 | 279.44 | 39731.05 | 13394.03 | 170.29 | ppb |
| Sulfur | 34-1 | 16615.84 | 32004.18 | 4214261.55 | 1420960.52 | 170.24 | ppb |
| Terbium | 159-1 | | | | 56 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.03 | 5.76 | 1.93 | 171.25 | ppb |
| Thallium | 205-1 | 0.01 | 0.03 | 5.29 | 1.78 | 170.91 | ppb |
| Tin | 118-1 | 0.10 | 0.28 | 60.89 | 20.42 | 171.62 | ppb |
| Titanium | 47-1 | 0.45 | 0.59 | 72.60 | 24.55 | 169.55 | ppb |
| Uranium | 238-1 | 0.03 | 0.06 | 7.68 | 2.59 | 170.17 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.08 | 0.08 | 0.08 | 4.87 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 58 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 12.95 | 13.35 | 13.54 | 13.28 | 2.24 | ppb |
| Zirconium | 90-1 | 0.02 | 0.06 | 7.86 | 2.65 | 170.48 | ppb |
| Zirconium | 91-1 | 0.02 | 0.05 | 9.07 | 3.05 | 171.11 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22.00 | 20.77 | 21.35 | 21.37 | 2.88 | ppb |
| Antimony | 121-1 | 0.15 | 0.16 | 0.16 | 0.16 | 2.75 | ppb |
| Arsenic | 75-2 | 0.13 | 0.15 | 0.09 | 0.12 | 22.24 | ppb |
| Barium | 135-1 | 37.81 | 38.98 | 39.20 | 38.67 | 1.94 | ppb |
| Barium | 137-1 | 37.56 | 39.07 | 39.21 | 38.61 | 2.36 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 3.04 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.09 | 0.05 | 0.06 | 60.86 | ppb |
| Cadmium | 106-1 | 0.94 | 0.67 | 0.52 | 0.71 | 30.24 | ppb |
| Cadmium | 111-1 | 0.08 | 0.06 | 0.05 | 0.06 | 29.91 | ppb |
| Calcium | 43-1 | 28915.97 | 30268.23 | 30200.33 | 29794.85 | 2.56 | ppb |
| Calcium | 44-1 | 28103.13 | 29256.23 | 29651.04 | 29003.47 | 2.77 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.04 | -0.03 | -0.04 | -0.04 | | ppb |
| Cobalt | 59-2 | 0.16 | 0.13 | 0.13 | 0.14 | 11.75 | ppb |
| Copper | 63-2 | 78.75 | 77.00 | 77.64 | 77.80 | 1.14 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 8.75 | 8.38 | 8.75 | 8.63 | 2.47 | ppb |
| Iron | 56-2 | 8.82 | 8.59 | 8.60 | 8.67 | 1.52 | ppb |
| Iron | 57-2 | 9.90 | 8.97 | 8.84 | 9.24 | 6.24 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.21 | 0.23 | 0.20 | 0.21 | 6.64 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.19 | 0.20 | 0.22 | 0.20 | 6.30 | ppb |
| Lead | 208-1 | 0.19 | 0.22 | 0.20 | 0.20 | 7.12 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 11213.94 | 10908.90 | 11023.81 | 11048.88 | 1.39 | ppb |
| Manganese | 55-2 | 9.88 | 9.32 | 10.07 | 9.76 | 4.00 | ppb |
| Molybdenum | 94-1 | 0.38 | 0.40 | 0.42 | 0.40 | 5.20 | ppb |
| Molybdenum | 95-1 | 0.41 | 0.43 | 0.44 | 0.43 | 4.27 | ppb |
| Molybdenum | 96-1 | 0.41 | 0.41 | 0.45 | 0.42 | 4.60 | ppb |
| Molybdenum | 97-1 | 0.43 | 0.48 | 0.47 | 0.46 | 5.46 | ppb |
| Molybdenum | 98-1 | 0.44 | 0.44 | 0.44 | 0.44 | 0.13 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.53 | 0.56 | 0.53 | 0.54 | 3.27 | ppb |
| Phosphorus | 31-2 | 189.97 | 200.16 | 199.44 | 196.52 | 2.90 | ppb |
| Potassium | 39-2 | 1958.46 | 1919.81 | 1912.81 | 1930.36 | 1.27 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 0.19 | 0.51 | 0.62 | 0.44 | 51.31 | ppb |
| Selenium | 77-2 | 1.39 | 0.00 | 0.71 | 0.70 | 99.53 | ppb |
| Selenium | 78-2 | 0.01 | 0.01 | 0.23 | 0.08 | 152.65 | ppb |
| Silicon | 28-1 | 2395.55 | 2511.99 | 2529.38 | 2478.97 | 2.94 | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.02 | 0.02 | 7.49 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.01 | ppb |
| Sodium | 23-2 | 47233.53 | 46609.79 | 46985.18 | 46942.83 | 0.67 | ppb |
| Strontium | 86-1 | 164.77 | 169.69 | 170.65 | 168.37 | 1.87 | ppb |
| Strontium | 88-1 | 170.15 | 174.53 | 175.47 | 173.38 | 1.64 | ppb |
| Sulfur | 34-1 | 16008.25 | 16717.13 | 16140.47 | 16288.62 | 2.31 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.33 | ppb |
| Thallium | 205-1 | 0.01 | 0.02 | 0.02 | 0.02 | 8.57 | ppb |
| Tin | 118-1 | 0.10 | 0.13 | 0.12 | 0.12 | 13.98 | ppb |
| Titanium | 47-1 | 0.40 | 0.37 | 0.41 | 0.40 | 6.15 | ppb |
| Uranium | 238-1 | 0.03 | 0.04 | 0.04 | 0.04 | 7.67 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.10 | 0.08 | 0.09 | 10.31 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 13.47 | 13.07 | 12.80 | 13.12 | 2.57 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 12.34 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.03 | 0.02 | 21.98 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47797.48 | 47901.50 | 47841.13 | 47846.71 | 0.11 | ppb |
| Antimony | 121-1 | 495.03 | 508.13 | 495.93 | 499.70 | 1.46 | ppb |
| Arsenic | 75-2 | 505.28 | 496.28 | 494.97 | 498.84 | 1.13 | ppb |
| Barium | 135-1 | 2510.93 | 2611.33 | 2552.65 | 2558.30 | 1.97 | ppb |
| Barium | 137-1 | 2507.16 | 2580.90 | 2506.14 | 2531.40 | 1.69 | ppb |
| Beryllium | 9-1 | 497.41 | 493.55 | 504.79 | 498.58 | 1.15 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 502.54 | 514.34 | 491.19 | 502.69 | 2.30 | ppb |
| Cadmium | 106-1 | 503.78 | 515.50 | 501.31 | 506.87 | 1.49 | ppb |
| Cadmium | 111-1 | 492.47 | 503.51 | 498.10 | 498.03 | 1.11 | ppb |
| Calcium | 43-1 | 236232.42 | 235559.22 | 237960.46 | 236584.03 | 0.52 | ppb |
| Calcium | 44-1 | 238221.45 | 233752.98 | 239415.53 | 237129.99 | 1.26 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 513.24 | 515.90 | 516.98 | 515.37 | 0.37 | ppb |
| Cobalt | 59-2 | 506.06 | 503.46 | 497.06 | 502.19 | 0.92 | ppb |
| Copper | 63-2 | 4828.40 | 4748.60 | 4809.15 | 4795.39 | 0.87 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 91 | | % |
| Iron | 54-2 | 120407.43 | 119828.39 | 119814.49 | 120016.77 | 0.28 | ppb |
| Iron | 56-2 | 119599.51 | 119701.41 | 119364.86 | 119555.26 | 0.14 | ppb |
| Iron | 57-2 | 121121.69 | 120418.14 | 120308.37 | 120616.07 | 0.37 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2581.93 | 2589.57 | 2646.23 | 2605.91 | 1.35 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2580.27 | 2602.24 | 2686.19 | 2622.90 | 2.13 | ppb |
| Lead | 208-1 | 2577.61 | 2591.31 | 2646.93 | 2605.28 | 1.41 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 241970.47 | 239477.85 | 242571.72 | 241340.01 | 0.68 | ppb |
| Manganese | 55-2 | 4960.81 | 4923.80 | 4962.71 | 4949.11 | 0.44 | ppb |
| Molybdenum | 94-1 | 5158.46 | 5132.50 | 5173.16 | 5154.71 | 0.40 | ppb |
| Molybdenum | 95-1 | 5124.81 | 5051.25 | 5089.42 | 5088.49 | 0.72 | ppb |
| Molybdenum | 96-1 | 5127.92 | 5043.13 | 5031.10 | 5067.38 | 1.04 | ppb |
| Molybdenum | 97-1 | 5138.43 | 5067.68 | 5099.82 | 5101.97 | 0.69 | ppb |
| Molybdenum | 98-1 | 5150.47 | 5126.61 | 5147.21 | 5141.43 | 0.25 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 463.11 | 456.32 | 458.59 | 459.34 | 0.75 | ppb |
| Phosphorus | 31-2 | 9873.68 | 9610.48 | 10013.18 | 9832.45 | 2.08 | ppb |
| Potassium | 39-2 | 118595.87 | 119373.59 | 121372.99 | 119780.82 | 1.20 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 491.91 | 490.97 | 492.77 | 491.88 | 0.18 | ppb |
| Selenium | 77-2 | 473.86 | 507.59 | 490.05 | 490.50 | 3.44 | ppb |
| Selenium | 78-2 | 463.54 | 478.60 | 468.32 | 470.15 | 1.64 | ppb |
| Silicon | 28-1 | 515.73 | 516.02 | 517.34 | 516.37 | 0.17 | ppb |
| Silver | 107-1 | 477.43 | 492.30 | 479.66 | 483.13 | 1.66 | ppb |
| Silver | 109-1 | 484.19 | 491.74 | 482.12 | 486.02 | 1.04 | ppb |
| Sodium | 23-2 | 246593.07 | 242397.87 | 246299.06 | 245096.66 | 0.96 | ppb |
| Strontium | 86-1 | 524.58 | 529.18 | 514.24 | 522.67 | 1.46 | ppb |
| Strontium | 88-1 | 503.83 | 514.33 | 505.79 | 507.98 | 1.10 | ppb |
| Sulfur | 34-1 | 10912.18 | 10298.02 | 10486.89 | 10565.70 | 2.98 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 523.74 | 515.47 | 537.76 | 525.66 | 2.14 | ppb |
| Thallium | 205-1 | 518.36 | 510.77 | 528.01 | 519.05 | 1.66 | ppb |
| Tin | 118-1 | 498.99 | 518.12 | 501.28 | 506.13 | 2.06 | ppb |
| Titanium | 47-1 | 5080.08 | 4982.82 | 5067.63 | 5043.51 | 1.05 | ppb |
| Uranium | 238-1 | 523.87 | 524.07 | 532.18 | 526.71 | 0.90 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 517.09 | 514.61 | 516.91 | 516.20 | 0.27 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 4854.52 | 4773.62 | 4823.68 | 4817.27 | 0.85 | ppb |
| Zirconium | 90-1 | 519.47 | 509.58 | 516.08 | 515.04 | 0.98 | ppb |
| Zirconium | 91-1 | 511.45 | 516.82 | 512.65 | 513.64 | 0.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.50 | 0.14 | 0.41 | 0.35 | 53.11 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.91 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | 0.01 | 0.01 | 0.00 | 0.00 | 91.30 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.08 | 0.07 | 0.07 | 0.07 | 9.62 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.05 | -0.02 | 0.02 | 145.23 | ppb |
| Cadmium | 106-1 | -0.40 | -0.54 | 0.87 | -0.02 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.04 | 0.07 | 0.00 | 6980.41 | ppb |
| Calcium | 43-1 | -0.66 | 0.20 | 0.39 | -0.03 | | ppb |
| Calcium | 44-1 | -2.21 | -1.00 | -0.83 | -1.34 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.03 | -0.05 | -0.03 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.00 | 0.01 | 0.01 | 61.38 | ppb |
| Copper | 63-2 | 0.10 | 0.10 | 0.08 | 0.09 | 11.68 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 1.79 | 1.24 | 1.55 | 1.53 | 18.05 | ppb |
| Iron | 56-2 | 1.37 | 1.42 | 1.55 | 1.45 | 6.35 | ppb |
| Iron | 57-2 | 1.24 | 0.53 | 1.51 | 1.09 | 46.08 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.10 | 0.11 | 0.09 | 0.10 | 7.72 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.10 | 0.08 | 0.09 | 9.61 | ppb |
| Lead | 208-1 | 0.10 | 0.10 | 0.09 | 0.10 | 3.33 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | -7.38 | -8.01 | -7.33 | -7.58 | | ppb |
| Manganese | 55-2 | 0.06 | 0.04 | 0.05 | 0.05 | 16.74 | ppb |
| Molybdenum | 94-1 | 0.05 | 0.04 | 0.04 | 0.04 | 16.26 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.02 | 0.03 | 20.21 | ppb |
| Molybdenum | 96-1 | 0.03 | 0.03 | 0.02 | 0.03 | 18.90 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.02 | 0.02 | 0.02 | 33.23 | ppb |
| Molybdenum | 98-1 | 0.03 | 0.03 | 0.02 | 0.03 | 16.25 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.25 | 0.25 | 0.23 | 0.25 | 4.06 | ppb |
| Phosphorus | 31-2 | -24.40 | -26.16 | -17.90 | -22.82 | | ppb |
| Potassium | 39-2 | 27.28 | 24.36 | 20.96 | 24.20 | 13.07 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | -0.37 | -0.02 | -0.03 | -0.14 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.66 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.22 | -0.62 | -0.24 | -0.36 | | ppb |
| Silicon | 28-1 | -4.12 | -3.57 | -3.41 | -3.70 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 15.40 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.28 | ppb |
| Sodium | 23-2 | 31.43 | 30.68 | 30.62 | 30.91 | 1.45 | ppb |
| Strontium | 86-1 | 0.02 | 0.03 | 0.02 | 0.02 | 25.78 | ppb |
| Strontium | 88-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.77 | ppb |
| Sulfur | 34-1 | 74.53 | 323.02 | -269.31 | 42.75 | 695.80 | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 20.13 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.01 | 12.65 | ppb |
| Tin | 118-1 | 0.06 | 0.05 | 0.06 | 0.06 | 9.66 | ppb |
| Titanium | 47-1 | 0.01 | -0.01 | 0.01 | 0.00 | 2754.98 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 138.01 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | -0.18 | -0.20 | -0.17 | -0.18 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.01 | 0.01 | 57.33 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.01 | 0.01 | 57.17 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.12 | 0.14 | -0.16 | 0.03 | 499.83 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.64 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.04 | 0.03 | 0.04 | 0.04 | 12.06 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.03 | 0.07 | 0.02 | 211.48 | ppb |
| Cadmium | 106-1 | 0.04 | -0.59 | 1.05 | 0.17 | 493.25 | ppb |
| Cadmium | 111-1 | 0.01 | -0.04 | 0.08 | 0.02 | 403.54 | ppb |
| Calcium | 43-1 | -0.70 | -0.05 | -0.06 | -0.27 | | ppb |
| Calcium | 44-1 | -1.49 | -1.28 | -0.89 | -1.22 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.24 | 0.25 | 0.28 | 0.26 | 8.02 | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 31.26 | ppb |
| Copper | 63-2 | 0.12 | 0.08 | 0.14 | 0.11 | 27.24 | 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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 1.66 | 1.55 | 1.59 | 1.60 | 3.60 | ppb |
| Iron | 56-2 | 1.55 | 1.66 | 1.93 | 1.71 | 11.30 | ppb |
| Iron | 57-2 | 0.74 | 1.64 | 3.59 | 1.99 | 73.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.05 | 0.04 | 0.04 | 0.05 | 14.59 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.04 | 0.05 | 0.04 | 0.04 | 19.81 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 3.27 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | -6.54 | -6.76 | -5.93 | -6.41 | | ppb |
| Manganese | 55-2 | 0.09 | 0.07 | 0.08 | 0.08 | 11.18 | ppb |
| Molybdenum | 94-1 | 0.02 | 0.01 | 0.04 | 0.02 | 64.23 | ppb |
| Molybdenum | 95-1 | 0.02 | 0.01 | 0.01 | 0.01 | 65.72 | ppb |
| Molybdenum | 96-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.48 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.11 | ppb |
| Molybdenum | 98-1 | 0.01 | 0.01 | 0.00 | 0.00 | 43.37 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.45 | 0.40 | 0.44 | 0.43 | 5.79 | ppb |
| Phosphorus | 31-2 | -30.12 | -29.49 | -29.18 | -29.60 | | ppb |
| Potassium | 39-2 | 23.41 | 21.88 | 29.60 | 24.96 | 16.37 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | -0.01 | -0.24 | 0.05 | -0.06 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 1.41 | 0.47 | 173.21 | ppb |
| Selenium | 78-2 | -0.43 | -0.43 | -0.80 | -0.55 | | ppb |
| Silicon | 28-1 | -4.06 | -4.26 | -4.40 | -4.24 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 25.24 | ppb |
| Silver | 109-1 | 0.00 | 0.01 | 0.01 | 0.00 | 14.96 | ppb |
| Sodium | 23-2 | 34.43 | 33.56 | 40.65 | 36.21 | 10.67 | ppb |
| Strontium | 86-1 | 0.02 | 0.01 | 0.00 | 0.01 | 69.71 | ppb |
| Strontium | 88-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.10 | ppb |
| Sulfur | 34-1 | 1023.99 | 834.29 | 765.18 | 874.49 | 15.32 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.01 | 0.01 | 0.00 | 94.33 | ppb |
| Thallium | 205-1 | 0.01 | 0.00 | 0.00 | 0.00 | 31.05 | ppb |
| Tin | 118-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Titanium | 47-1 | 0.00 | 0.02 | 0.00 | 0.01 | 146.83 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.01 | 0.00 | 48.56 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | -0.25 | -0.25 | -0.20 | -0.23 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 238.46 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.00 | 0.01 | 72.21 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10424.31 | 9760.43 | 9551.57 | 9912.10 | 4.60 | ppb |
| Antimony | 121-1 | 520.54 | 523.17 | 591.65 | 545.12 | 7.40 | ppb |
| Arsenic | 75-2 | 549.78 | 516.13 | 516.91 | 527.61 | 3.64 | ppb |
| Barium | 135-1 | 2556.99 | 2571.79 | 2886.67 | 2671.82 | 6.97 | ppb |
| Barium | 137-1 | 2594.71 | 2569.13 | 2898.70 | 2687.52 | 6.82 | ppb |
| Beryllium | 9-1 | 490.00 | 485.02 | 533.30 | 502.77 | 5.28 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 91 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 521.95 | 516.09 | 601.33 | 546.46 | 8.71 | ppb |
| Cadmium | 106-1 | 524.25 | 521.19 | 596.67 | 547.37 | 7.81 | ppb |
| Cadmium | 111-1 | 515.31 | 526.36 | 595.28 | 545.65 | 7.94 | ppb |
| Calcium | 43-1 | 47555.50 | 47961.68 | 55947.01 | 50488.07 | 9.37 | ppb |
| Calcium | 44-1 | 46975.21 | 47630.78 | 54801.02 | 49802.33 | 8.72 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 568.13 | 537.59 | 526.76 | 544.16 | 3.94 | ppb |
| Cobalt | 59-2 | 565.66 | 535.61 | 511.86 | 537.71 | 5.01 | ppb |
| Copper | 63-2 | 5576.94 | 5261.59 | 5120.96 | 5319.83 | 4.39 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 27754.11 | 26386.31 | 25655.64 | 26598.68 | 4.00 | ppb |
| Iron | 56-2 | 27323.18 | 25847.27 | 25067.36 | 26079.27 | 4.39 | ppb |
| Iron | 57-2 | 27776.12 | 26177.13 | 25439.87 | 26464.37 | 4.51 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2523.58 | 2532.62 | 2875.71 | 2643.97 | 7.59 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2548.80 | 2524.06 | 2864.91 | 2645.92 | 7.18 | ppb |
| Lead | 208-1 | 2553.85 | 2534.04 | 2854.16 | 2647.35 | 6.78 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 55812.97 | 52060.20 | 52105.17 | 53326.11 | 4.04 | ppb |
| Manganese | 55-2 | 5486.21 | 5246.80 | 5054.96 | 5262.66 | 4.11 | ppb |
| Molybdenum | 94-1 | 4996.61 | 5096.62 | 5696.72 | 5263.31 | 7.19 | ppb |
| Molybdenum | 95-1 | 4998.48 | 4988.85 | 5756.22 | 5247.85 | 8.39 | ppb |
| Molybdenum | 96-1 | 4982.78 | 4915.99 | 5800.03 | 5232.93 | 9.41 | ppb |
| Molybdenum | 97-1 | 4968.19 | 4959.28 | 5787.21 | 5238.23 | 9.08 | ppb |
| Molybdenum | 98-1 | 4930.72 | 5007.33 | 5735.59 | 5224.54 | 8.50 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 566.88 | 533.34 | 513.36 | 537.86 | 5.03 | ppb |
| Phosphorus | 31-2 | 10889.60 | 10230.23 | 9820.03 | 10313.29 | 5.23 | ppb |
| Potassium | 39-2 | 26921.09 | 25425.44 | 24784.43 | 25710.32 | 4.26 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 93 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 498.25 | 498.34 | 590.18 | 528.92 | 10.03 | ppb |
| Selenium | 77-2 | 556.40 | 519.90 | 479.59 | 518.63 | 7.41 | ppb |
| Selenium | 78-2 | 529.88 | 476.24 | 523.08 | 509.73 | 5.73 | ppb |
| Silicon | 28-1 | 500.26 | 509.72 | 562.65 | 524.21 | 6.41 | ppb |
| Silver | 107-1 | 512.98 | 511.31 | 585.78 | 536.69 | 7.92 | ppb |
| Silver | 109-1 | 523.60 | 513.24 | 590.01 | 542.29 | 7.68 | ppb |
| Sodium | 23-2 | 56145.59 | 52745.33 | 51878.94 | 53589.95 | 4.21 | ppb |
| Strontium | 86-1 | 503.69 | 518.88 | 572.24 | 531.60 | 6.77 | ppb |
| Strontium | 88-1 | 504.84 | 493.24 | 573.77 | 523.95 | 8.31 | ppb |
| Sulfur | 34-1 | 10157.71 | 10228.93 | 12756.50 | 11047.71 | 13.40 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 507.21 | 504.57 | 578.60 | 530.12 | 7.92 | ppb |
| Thallium | 205-1 | 507.54 | 507.74 | 561.31 | 525.53 | 5.90 | ppb |
| Tin | 118-1 | 522.80 | 519.02 | 582.94 | 541.59 | 6.62 | ppb |
| Titanium | 47-1 | 4897.38 | 4944.21 | 5649.44 | 5163.68 | 8.16 | ppb |
| Uranium | 238-1 | 485.74 | 485.02 | 552.05 | 507.61 | 7.58 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 564.82 | 536.56 | 506.95 | 536.11 | 5.40 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 96 | | % |
| Zinc | 66-2 | 5695.16 | 5398.29 | 5260.23 | 5451.23 | 4.08 | ppb |
| Zirconium | 90-1 | 503.58 | 504.96 | 578.28 | 528.94 | 8.08 | ppb |
| Zirconium | 91-1 | 497.57 | 499.83 | 588.09 | 528.50 | 9.77 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.28 | 3.88 | 2.69 | 2.95 | 28.03 | ppb |
| Antimony | 121-1 | 0.18 | 0.15 | 0.12 | 0.15 | 19.84 | ppb |
| Arsenic | 75-2 | 0.02 | 0.01 | 0.02 | 0.01 | 38.23 | ppb |
| Barium | 135-1 | 0.20 | 0.13 | 0.11 | 0.14 | 33.12 | ppb |
| Barium | 137-1 | 0.19 | 0.13 | 0.10 | 0.14 | 35.19 | ppb |
| Beryllium | 9-1 | 0.24 | 0.16 | 0.15 | 0.18 | 25.63 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.63 | 0.58 | 0.61 | 0.61 | 4.53 | ppb |
| Cadmium | 106-1 | 0.02 | 0.33 | -0.56 | -0.07 | | ppb |
| Cadmium | 111-1 | 0.07 | 0.06 | -0.02 | 0.04 | 124.06 | ppb |
| Calcium | 43-1 | 156.36 | 133.31 | 130.66 | 140.11 | 10.09 | ppb |
| Calcium | 44-1 | 166.86 | 136.43 | 128.65 | 143.98 | 14.02 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.37 | 1.47 | 1.43 | 1.42 | 3.63 | ppb |
| Cobalt | 59-2 | 0.02 | 0.04 | 0.03 | 0.03 | 25.20 | ppb |
| Copper | 63-2 | 0.24 | 0.23 | 0.28 | 0.25 | 10.44 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 18.63 | 19.74 | 19.56 | 19.31 | 3.08 | ppb |
| Iron | 56-2 | 17.74 | 17.54 | 18.00 | 17.76 | 1.30 | ppb |
| Iron | 57-2 | 17.85 | 17.29 | 17.78 | 17.64 | 1.73 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.48 | 0.33 | 0.29 | 0.37 | 27.25 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.49 | 0.34 | 0.30 | 0.37 | 26.50 | ppb |
| Lead | 208-1 | 0.47 | 0.34 | 0.29 | 0.36 | 25.94 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 60.51 | 62.20 | 62.92 | 61.88 | 2.01 | ppb |
| Manganese | 55-2 | 0.66 | 0.74 | 0.68 | 0.70 | 6.03 | ppb |
| Molybdenum | 94-1 | 45.18 | 37.69 | 36.46 | 39.77 | 11.87 | ppb |
| Molybdenum | 95-1 | 54.88 | 46.00 | 43.76 | 48.21 | 12.19 | ppb |
| Molybdenum | 96-1 | 53.47 | 44.94 | 43.32 | 47.24 | 11.54 | ppb |
| Molybdenum | 97-1 | 55.23 | 46.15 | 44.61 | 48.66 | 11.79 | ppb |
| Molybdenum | 98-1 | 54.15 | 45.75 | 43.57 | 47.82 | 11.68 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.10 | 1.16 | 1.13 | 1.13 | 2.52 | ppb |
| Phosphorus | 31-2 | 122.20 | 109.55 | 133.02 | 121.59 | 9.66 | ppb |
| Potassium | 39-2 | 32.80 | 34.05 | 37.37 | 34.74 | 6.79 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | -0.20 | 0.01 | -0.15 | -0.11 | | ppb |
| Selenium | 77-2 | 0.66 | 0.00 | 0.68 | 0.45 | 86.65 | ppb |
| Selenium | 78-2 | -0.62 | -0.04 | -0.21 | -0.29 | | ppb |
| Silicon | 28-1 | 17.39 | 7.96 | 5.22 | 10.19 | 62.63 | ppb |
| Silver | 107-1 | 0.09 | 0.06 | 0.05 | 0.07 | 24.23 | ppb |
| Silver | 109-1 | 0.08 | 0.06 | 0.04 | 0.06 | 28.53 | ppb |
| Sodium | 23-2 | 50.73 | 54.25 | 57.08 | 54.02 | 5.90 | ppb |
| Strontium | 86-1 | 0.17 | 0.10 | 0.10 | 0.12 | 35.02 | ppb |
| Strontium | 88-1 | 0.15 | 0.11 | 0.10 | 0.12 | 19.24 | ppb |
| Sulfur | 34-1 | 2769.97 | 951.22 | 285.35 | 1335.51 | 96.30 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.07 | 0.05 | 0.04 | 0.05 | 26.12 | ppb |
| Thallium | 205-1 | 0.07 | 0.04 | 0.04 | 0.05 | 29.79 | ppb |
| Tin | 118-1 | 1.00 | 0.83 | 0.80 | 0.87 | 12.28 | ppb |
| Titanium | 47-1 | 0.51 | 0.30 | 0.34 | 0.39 | 28.89 | ppb |
| Uranium | 238-1 | 0.03 | 0.01 | 0.01 | 0.02 | 49.53 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.02 | 0.03 | 32.67 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 315.99 | 323.98 | 324.26 | 321.41 | 1.46 | ppb |
| Zirconium | 90-1 | 0.03 | 0.02 | 0.02 | 0.02 | 42.19 | ppb |
| Zirconium | 91-1 | 0.04 | 0.02 | 0.01 | 0.03 | 58.11 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.50 | 3.12 | 3.84 | 3.49 | 10.39 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.06 | 0.06 | 3.36 | ppb |
| Arsenic | 75-2 | 0.01 | -0.01 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.11 | 0.13 | 0.10 | 0.11 | 9.68 | ppb |
| Barium | 137-1 | 0.12 | 0.11 | 0.10 | 0.11 | 7.97 | ppb |
| Beryllium | 9-1 | 0.10 | 0.08 | 0.08 | 0.09 | 10.69 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.54 | 0.38 | 0.49 | 0.47 | 17.27 | ppb |
| Cadmium | 106-1 | 0.11 | -1.31 | -0.35 | -0.51 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.07 | 0.00 | -0.02 | | ppb |
| Calcium | 43-1 | 125.96 | 121.50 | 122.65 | 123.37 | 1.88 | ppb |
| Calcium | 44-1 | 129.53 | 126.15 | 124.45 | 126.71 | 2.04 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.38 | 1.41 | 1.44 | 1.41 | 2.17 | ppb |
| Cobalt | 59-2 | 0.02 | 0.03 | 0.02 | 0.03 | 16.33 | ppb |
| Copper | 63-2 | 0.22 | 0.22 | 0.20 | 0.21 | 6.19 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 10.89 | 10.63 | 12.25 | 11.26 | 7.75 | ppb |
| Iron | 56-2 | 10.64 | 10.85 | 10.83 | 10.77 | 1.10 | ppb |
| Iron | 57-2 | 11.28 | 10.53 | 10.39 | 10.74 | 4.47 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.23 | 0.23 | 0.21 | 0.23 | 5.58 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.24 | 0.23 | 0.22 | 0.23 | 5.91 | ppb |
| Lead | 208-1 | 0.24 | 0.23 | 0.21 | 0.23 | 5.03 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 61.91 | 60.38 | 61.61 | 61.30 | 1.32 | ppb |
| Manganese | 55-2 | 0.64 | 0.62 | 0.59 | 0.62 | 3.62 | ppb |
| Molybdenum | 94-1 | 37.37 | 36.89 | 36.71 | 36.99 | 0.93 | ppb |
| Molybdenum | 95-1 | 45.10 | 44.64 | 44.58 | 44.78 | 0.64 | ppb |
| Molybdenum | 96-1 | 43.79 | 43.61 | 42.92 | 43.44 | 1.05 | ppb |
| Molybdenum | 97-1 | 45.37 | 44.98 | 44.58 | 44.98 | 0.87 | ppb |
| Molybdenum | 98-1 | 45.01 | 44.00 | 44.01 | 44.34 | 1.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.03 | 1.14 | 1.10 | 1.09 | 5.00 | ppb |
| Phosphorus | 31-2 | 113.23 | 90.35 | 109.26 | 104.28 | 11.73 | ppb |
| Potassium | 39-2 | 33.07 | 34.62 | 32.87 | 33.52 | 2.85 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.09 | -0.02 | -0.09 | 0.00 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.62 | 0.34 | -0.62 | -0.30 | | ppb |
| Silicon | 28-1 | 4.66 | 3.09 | 3.65 | 3.80 | 20.94 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 15.72 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.10 | ppb |
| Sodium | 23-2 | 52.83 | 51.51 | 53.55 | 52.63 | 1.97 | ppb |
| Strontium | 86-1 | 0.10 | 0.08 | 0.08 | 0.09 | 10.53 | ppb |
| Strontium | 88-1 | 0.11 | 0.10 | 0.10 | 0.10 | 6.61 | ppb |
| Sulfur | 34-1 | 907.00 | 416.60 | 595.43 | 639.68 | 38.80 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.76 | ppb |
| Thallium | 205-1 | 0.03 | 0.02 | 0.02 | 0.02 | 14.70 | ppb |
| Tin | 118-1 | 0.88 | 0.86 | 0.81 | 0.85 | 3.80 | ppb |
| Titanium | 47-1 | 0.33 | 0.32 | 0.25 | 0.30 | 14.37 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.08 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.03 | 0.02 | 0.02 | 28.91 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 314.11 | 315.56 | 312.18 | 313.95 | 0.54 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.20 | ppb |
| Zirconium | 91-1 | 0.02 | 0.01 | 0.01 | 0.01 | 78.01 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.29 | 1.20 | 1.48 | 1.32 | 10.91 | ppb |
| Antimony | 121-1 | 0.05 | 0.04 | 0.05 | 0.04 | 2.77 | ppb |
| Arsenic | 75-2 | 0.01 | 0.00 | 0.01 | 0.01 | 111.15 | ppb |
| Barium | 135-1 | 0.02 | 0.03 | 0.02 | 0.03 | 21.00 | ppb |
| Barium | 137-1 | 0.01 | 0.03 | 0.02 | 0.02 | 35.11 | ppb |
| Beryllium | 9-1 | 0.06 | 0.06 | 0.06 | 0.06 | 2.35 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.14 | 0.09 | 0.21 | 0.15 | 41.68 | ppb |
| Cadmium | 106-1 | 0.25 | -0.53 | 0.28 | 0.00 | | ppb |
| Cadmium | 111-1 | 0.03 | -0.03 | 0.02 | 0.01 | 567.99 | ppb |
| Calcium | 43-1 | 26.15 | 25.05 | 25.92 | 25.71 | 2.26 | ppb |
| Calcium | 44-1 | 23.38 | 23.26 | 24.79 | 23.81 | 3.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.03 | 0.12 | 0.21 | 0.12 | 73.29 | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.00 | 0.01 | 47.89 | ppb |
| Copper | 63-2 | -0.02 | 0.06 | 0.12 | 0.06 | 127.28 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 3.24 | 4.55 | 4.57 | 4.12 | 18.48 | ppb |
| Iron | 56-2 | 2.99 | 4.07 | 4.65 | 3.90 | 21.59 | ppb |
| Iron | 57-2 | 3.34 | 3.20 | 4.32 | 3.62 | 16.92 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.85 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.09 | 0.08 | 0.09 | 4.94 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.03 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 5.07 | 9.30 | 11.84 | 8.74 | 39.12 | ppb |
| Manganese | 55-2 | 0.08 | 0.16 | 0.11 | 0.11 | 34.68 | ppb |
| Molybdenum | 94-1 | 7.02 | 7.16 | 7.19 | 7.12 | 1.22 | ppb |
| Molybdenum | 95-1 | 8.68 | 8.68 | 8.86 | 8.74 | 1.18 | ppb |
| Molybdenum | 96-1 | 8.36 | 8.35 | 8.53 | 8.41 | 1.19 | ppb |
| Molybdenum | 97-1 | 8.61 | 8.59 | 8.79 | 8.66 | 1.26 | ppb |
| Molybdenum | 98-1 | 8.58 | 8.49 | 8.63 | 8.57 | 0.82 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.32 | 0.44 | 0.54 | 0.43 | 25.30 | ppb |
| Phosphorus | 31-2 | -0.08 | 3.75 | 6.59 | 3.42 | 97.86 | ppb |
| Potassium | 39-2 | 12.98 | 26.34 | 40.05 | 26.46 | 51.15 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | -0.13 | -0.30 | -0.31 | -0.25 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.66 | -0.61 | 0.11 | -0.39 | | ppb |
| Silicon | 28-1 | -2.67 | -3.01 | -1.94 | -2.54 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.66 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 28.08 | ppb |
| Sodium | 23-2 | 9.36 | 27.18 | 42.60 | 26.38 | 63.06 | ppb |
| Strontium | 86-1 | 0.02 | 0.01 | 0.03 | 0.02 | 53.80 | ppb |
| Strontium | 88-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.11 | ppb |
| Sulfur | 34-1 | 261.27 | 149.72 | 526.44 | 312.48 | 61.93 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 1.41 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.25 | ppb |
| Tin | 118-1 | 0.15 | 0.14 | 0.15 | 0.15 | 3.85 | ppb |
| Titanium | 47-1 | 0.07 | 0.08 | 0.09 | 0.08 | 11.55 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 26.48 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 54.32 | 64.31 | 69.51 | 62.71 | 12.31 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 50.94 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.17 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1637.60 | 1648.62 | 1639.10 | 1641.78 | 0.36 | ppb |
| Antimony | 121-1 | 109.97 | 106.74 | 102.31 | 106.34 | 3.62 | ppb |
| Arsenic | 75-2 | 0.06 | 0.05 | 0.05 | 0.05 | 12.48 | ppb |
| Barium | 135-1 | 466.30 | 456.08 | 444.17 | 455.52 | 2.43 | ppb |
| Barium | 137-1 | 463.85 | 440.59 | 437.64 | 447.36 | 3.21 | ppb |
| Beryllium | 9-1 | 94.65 | 90.53 | 89.63 | 91.61 | 2.92 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 98.21 | 96.72 | 93.36 | 96.10 | 2.58 | ppb |
| Cadmium | 106-1 | 105.36 | 103.59 | 97.10 | 102.01 | 4.26 | ppb |
| Cadmium | 111-1 | 100.01 | 98.43 | 93.98 | 97.47 | 3.21 | ppb |
| Calcium | 43-1 | 9500.69 | 9104.43 | 8812.38 | 9139.17 | 3.78 | ppb |
| Calcium | 44-1 | 9331.96 | 9069.44 | 8721.15 | 9040.85 | 3.39 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 90.20 | 90.49 | 91.86 | 90.85 | 0.98 | ppb |
| Cobalt | 59-2 | 93.44 | 93.55 | 93.84 | 93.61 | 0.23 | ppb |
| Copper | 63-2 | 961.38 | 973.73 | 985.02 | 973.38 | 1.21 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 93 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 4133.08 | 4156.13 | 4195.92 | 4161.71 | 0.76 | ppb |
| Iron | 56-2 | 4191.46 | 4207.57 | 4240.46 | 4213.17 | 0.59 | ppb |
| Iron | 57-2 | 4076.54 | 4072.09 | 4164.85 | 4104.49 | 1.27 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 498.63 | 470.83 | 467.20 | 478.89 | 3.59 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 505.97 | 474.30 | 466.65 | 482.31 | 4.32 | ppb |
| Lead | 208-1 | 498.13 | 473.61 | 468.49 | 480.08 | 3.30 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 9153.42 | 9178.70 | 9227.57 | 9186.57 | 0.41 | ppb |
| Manganese | 55-2 | 941.50 | 927.78 | 957.69 | 942.32 | 1.59 | ppb |
| Molybdenum | 94-1 | 513.81 | 501.78 | 482.05 | 499.21 | 3.21 | ppb |
| Molybdenum | 95-1 | 405.81 | 398.17 | 373.08 | 392.35 | 4.36 | ppb |
| Molybdenum | 96-1 | 415.12 | 402.43 | 393.99 | 403.84 | 2.63 | ppb |
| Molybdenum | 97-1 | 407.73 | 390.05 | 388.12 | 395.30 | 2.73 | ppb |
| Molybdenum | 98-1 | 403.52 | 388.41 | 378.66 | 390.20 | 3.21 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 94.31 | 94.56 | 94.26 | 94.38 | 0.17 | ppb |
| Phosphorus | 31-2 | 148.04 | 128.57 | 115.75 | 130.79 | 12.43 | ppb |
| Potassium | 39-2 | 4009.52 | 4045.84 | 4042.63 | 4032.66 | 0.50 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 100.75 | 99.26 | 97.68 | 99.23 | 1.55 | ppb |
| Selenium | 77-2 | 81.90 | 95.90 | 91.34 | 89.71 | 7.96 | ppb |
| Selenium | 78-2 | 93.50 | 88.36 | 98.34 | 93.40 | 5.34 | ppb |
| Silicon | 28-1 | 7.53 | 4.94 | 6.78 | 6.42 | 20.72 | ppb |
| Silver | 107-1 | 17.36 | 17.13 | 16.31 | 16.93 | 3.24 | ppb |
| Silver | 109-1 | 17.18 | 17.16 | 16.49 | 16.95 | 2.31 | ppb |
| Sodium | 23-2 | 9071.67 | 9021.14 | 9217.98 | 9103.60 | 1.12 | ppb |
| Strontium | 86-1 | 114.80 | 111.95 | 110.16 | 112.30 | 2.08 | ppb |
| Strontium | 88-1 | 118.78 | 117.52 | 114.13 | 116.81 | 2.06 | ppb |
| Sulfur | 34-1 | 1866.67 | 1173.97 | 1303.70 | 1448.11 | 25.43 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 93.45 | 90.55 | 91.13 | 91.71 | 1.67 | ppb |
| Thallium | 205-1 | 98.70 | 95.40 | 93.82 | 95.97 | 2.60 | ppb |
| Tin | 118-1 | 91.48 | 90.21 | 86.50 | 89.40 | 2.89 | ppb |
| Titanium | 47-1 | 0.65 | 0.64 | 0.58 | 0.62 | 5.94 | ppb |
| Uranium | 238-1 | 94.48 | 90.81 | 88.19 | 91.16 | 3.47 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 92.44 | 91.82 | 92.92 | 92.39 | 0.59 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | 1196.76 | 1200.26 | 1211.47 | 1202.83 | 0.64 | ppb |
| Zirconium | 90-1 | 97.78 | 95.25 | 94.18 | 95.74 | 1.93 | ppb |
| Zirconium | 91-1 | 93.44 | 91.15 | 90.05 | 91.55 | 1.89 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1761.64 | 1629.08 | 1621.31 | 1670.68 | 4.72 | ppb |
| Antimony | 121-1 | 105.85 | 103.85 | 98.73 | 102.81 | 3.57 | ppb |
| Arsenic | 75-2 | 0.00 | 0.04 | 0.04 | 0.03 | 86.06 | ppb |
| Barium | 135-1 | 449.76 | 444.19 | 417.42 | 437.12 | 3.96 | ppb |
| Barium | 137-1 | 456.68 | 440.71 | 421.31 | 439.57 | 4.03 | ppb |
| Beryllium | 9-1 | 91.28 | 91.24 | 86.06 | 89.53 | 3.35 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 94.50 | 94.41 | 90.35 | 93.09 | 2.55 | ppb |
| Cadmium | 106-1 | 102.71 | 99.49 | 96.78 | 99.66 | 2.98 | ppb |
| Cadmium | 111-1 | 97.78 | 95.38 | 91.37 | 94.84 | 3.42 | ppb |
| Calcium | 43-1 | 9069.53 | 8890.53 | 8549.54 | 8836.53 | 2.99 | ppb |
| Calcium | 44-1 | 8871.11 | 8911.85 | 8485.80 | 8756.25 | 2.68 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 96.92 | 90.21 | 90.50 | 92.54 | 4.10 | ppb |
| Cobalt | 59-2 | 100.17 | 93.32 | 94.12 | 95.87 | 3.90 | ppb |
| Copper | 63-2 | 1033.43 | 952.56 | 971.12 | 985.71 | 4.30 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 4485.63 | 4135.52 | 4168.75 | 4263.30 | 4.53 | ppb |
| Iron | 56-2 | 4557.16 | 4105.97 | 4210.37 | 4291.17 | 5.50 | ppb |
| Iron | 57-2 | 4391.82 | 4065.62 | 4105.98 | 4187.80 | 4.25 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 468.41 | 474.94 | 453.46 | 465.60 | 2.37 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 465.35 | 477.66 | 454.33 | 465.78 | 2.51 | ppb |
| Lead | 208-1 | 464.70 | 467.93 | 447.96 | 460.19 | 2.33 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 9720.23 | 9025.43 | 9310.84 | 9352.17 | 3.73 | ppb |
| Manganese | 55-2 | 1020.43 | 916.98 | 934.56 | 957.32 | 5.78 | ppb |
| Molybdenum | 94-1 | 487.38 | 486.47 | 464.99 | 479.61 | 2.64 | ppb |
| Molybdenum | 95-1 | 390.20 | 390.01 | 367.75 | 382.65 | 3.37 | ppb |
| Molybdenum | 96-1 | 394.38 | 399.51 | 381.01 | 391.63 | 2.44 | ppb |
| Molybdenum | 97-1 | 389.54 | 390.48 | 374.45 | 384.82 | 2.34 | ppb |
| Molybdenum | 98-1 | 387.15 | 378.83 | 366.48 | 377.49 | 2.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 99.56 | 93.07 | 92.87 | 95.17 | 4.00 | ppb |
| Phosphorus | 31-2 | 157.80 | 123.98 | 138.83 | 140.20 | 12.09 | ppb |
| Potassium | 39-2 | 4307.78 | 3986.70 | 4013.24 | 4102.57 | 4.34 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 97.95 | 96.47 | 93.92 | 96.11 | 2.12 | ppb |
| Selenium | 77-2 | 100.85 | 85.41 | 107.80 | 98.02 | 11.69 | ppb |
| Selenium | 78-2 | 92.78 | 94.56 | 94.29 | 93.88 | 1.02 | ppb |
| Silicon | 28-1 | 5.45 | 3.56 | 1.49 | 3.50 | 56.60 | ppb |
| Silver | 107-1 | 16.63 | 16.61 | 15.83 | 16.36 | 2.81 | ppb |
| Silver | 109-1 | 16.78 | 16.56 | 15.95 | 16.43 | 2.64 | ppb |
| Sodium | 23-2 | 9746.80 | 9010.27 | 9248.16 | 9335.08 | 4.03 | ppb |
| Strontium | 86-1 | 110.02 | 110.82 | 105.49 | 108.78 | 2.64 | ppb |
| Strontium | 88-1 | 115.05 | 113.12 | 108.20 | 112.12 | 3.15 | ppb |
| Sulfur | 34-1 | 1071.95 | 613.81 | 111.61 | 599.13 | 80.17 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 89.43 | 91.46 | 86.59 | 89.16 | 2.74 | ppb |
| Thallium | 205-1 | 95.02 | 94.26 | 90.22 | 93.17 | 2.77 | ppb |
| Tin | 118-1 | 88.84 | 87.22 | 84.41 | 86.82 | 2.58 | ppb |
| Titanium | 47-1 | 0.61 | 0.55 | 0.60 | 0.58 | 5.71 | ppb |
| Uranium | 238-1 | 88.82 | 88.55 | 83.93 | 87.10 | 3.15 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 98.19 | 90.41 | 91.46 | 93.35 | 4.52 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 1289.36 | 1197.10 | 1206.02 | 1230.82 | 4.13 | ppb |
| Zirconium | 90-1 | 92.65 | 92.38 | 89.28 | 91.44 | 2.05 | ppb |
| Zirconium | 91-1 | 88.09 | 88.97 | 85.34 | 87.47 | 2.16 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1648.94 | 1657.70 | 1638.05 | 1648.23 | 0.60 | ppb |
| Antimony | 121-1 | 101.24 | 103.91 | 103.06 | 102.74 | 1.32 | ppb |
| Arsenic | 75-2 | 0.05 | 0.07 | 0.05 | 0.06 | 15.87 | ppb |
| Barium | 135-1 | 428.01 | 432.73 | 434.99 | 431.91 | 0.82 | ppb |
| Barium | 137-1 | 416.08 | 440.79 | 434.11 | 430.33 | 2.97 | ppb |
| Beryllium | 9-1 | 85.54 | 91.84 | 90.50 | 89.29 | 3.72 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 90.69 | 93.99 | 92.66 | 92.45 | 1.80 | ppb |
| Cadmium | 106-1 | 95.63 | 99.80 | 98.55 | 97.99 | 2.18 | ppb |
| Cadmium | 111-1 | 90.98 | 95.63 | 94.93 | 93.85 | 2.68 | ppb |
| Calcium | 43-1 | 8448.05 | 8751.35 | 8774.40 | 8657.94 | 2.10 | ppb |
| Calcium | 44-1 | 8515.87 | 8808.43 | 8813.99 | 8712.76 | 1.96 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 92.64 | 93.24 | 90.76 | 92.22 | 1.40 | ppb |
| Cobalt | 59-2 | 95.41 | 96.13 | 94.93 | 95.49 | 0.64 | ppb |
| Copper | 63-2 | 977.88 | 978.81 | 990.68 | 982.46 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 4260.24 | 4264.86 | 4193.47 | 4239.52 | 0.94 | ppb |
| Iron | 56-2 | 4216.14 | 4302.74 | 4212.67 | 4243.85 | 1.20 | ppb |
| Iron | 57-2 | 4164.29 | 4187.40 | 4150.38 | 4167.35 | 0.45 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 451.19 | 471.67 | 468.78 | 463.88 | 2.39 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 454.65 | 471.57 | 468.87 | 465.03 | 1.95 | ppb |
| Lead | 208-1 | 449.61 | 466.83 | 465.34 | 460.59 | 2.07 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 9182.79 | 9288.07 | 9223.53 | 9231.46 | 0.58 | ppb |
| Manganese | 55-2 | 946.24 | 967.51 | 937.59 | 950.45 | 1.62 | ppb |
| Molybdenum | 94-1 | 461.93 | 476.60 | 480.20 | 472.91 | 2.05 | ppb |
| Molybdenum | 95-1 | 366.23 | 377.39 | 385.40 | 376.34 | 2.56 | ppb |
| Molybdenum | 96-1 | 376.84 | 392.32 | 388.11 | 385.75 | 2.07 | ppb |
| Molybdenum | 97-1 | 362.43 | 388.72 | 385.25 | 378.80 | 3.77 | ppb |
| Molybdenum | 98-1 | 365.63 | 385.24 | 384.46 | 378.44 | 2.93 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 95.11 | 95.29 | 94.51 | 94.97 | 0.43 | ppb |
| Phosphorus | 31-2 | 118.26 | 131.36 | 161.61 | 137.08 | 16.22 | ppb |
| Potassium | 39-2 | 4077.31 | 4049.09 | 4021.09 | 4049.17 | 0.69 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 89.38 | 96.34 | 96.30 | 94.01 | 4.26 | ppb |
| Selenium | 77-2 | 73.64 | 93.52 | 110.86 | 92.67 | 20.10 | ppb |
| Selenium | 78-2 | 93.08 | 93.79 | 88.97 | 91.95 | 2.83 | ppb |
| Silicon | 28-1 | 1.94 | 3.27 | 3.31 | 2.84 | 27.49 | ppb |
| Silver | 107-1 | 15.77 | 16.60 | 16.56 | 16.31 | 2.86 | ppb |
| Silver | 109-1 | 15.89 | 16.51 | 16.59 | 16.33 | 2.37 | ppb |
| Sodium | 23-2 | 9189.62 | 9119.67 | 8947.14 | 9085.48 | 1.37 | ppb |
| Strontium | 86-1 | 104.50 | 110.28 | 110.91 | 108.56 | 3.25 | ppb |
| Strontium | 88-1 | 108.90 | 111.57 | 111.68 | 110.72 | 1.42 | ppb |
| Sulfur | 34-1 | 461.93 | 403.62 | 536.71 | 467.42 | 14.27 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 85.58 | 89.03 | 89.72 | 88.11 | 2.52 | ppb |
| Thallium | 205-1 | 92.04 | 93.46 | 93.77 | 93.09 | 0.99 | ppb |
| Tin | 118-1 | 83.03 | 87.16 | 86.56 | 85.58 | 2.61 | ppb |
| Titanium | 47-1 | 0.60 | 0.63 | 0.59 | 0.61 | 3.84 | ppb |
| Uranium | 238-1 | 83.96 | 87.66 | 88.76 | 86.79 | 2.90 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 92.86 | 93.17 | 93.18 | 93.07 | 0.20 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 1218.39 | 1219.65 | 1213.54 | 1217.19 | 0.27 | ppb |
| Zirconium | 90-1 | 87.86 | 94.01 | 92.92 | 91.60 | 3.58 | ppb |
| Zirconium | 91-1 | 83.55 | 89.07 | 89.77 | 87.46 | 3.89 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 51475.81 | 47199.52 | 48751.98 | 49142.44 | 4.40 | ppb |
| Antimony | 121-1 | 489.91 | 497.58 | 498.87 | 495.45 | 0.98 | ppb |
| Arsenic | 75-2 | 531.75 | 485.95 | 490.34 | 502.68 | 5.03 | ppb |
| Barium | 135-1 | 2450.76 | 2477.67 | 2523.52 | 2483.98 | 1.48 | ppb |
| Barium | 137-1 | 2470.64 | 2478.81 | 2514.18 | 2487.88 | 0.93 | ppb |
| Beryllium | 9-1 | 474.80 | 490.67 | 483.46 | 482.98 | 1.65 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 86 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 487.84 | 496.79 | 502.13 | 495.59 | 1.46 | ppb |
| Cadmium | 106-1 | 493.02 | 498.87 | 505.78 | 499.22 | 1.28 | ppb |
| Cadmium | 111-1 | 478.10 | 490.47 | 498.46 | 489.01 | 2.10 | ppb |
| Calcium | 43-1 | 230866.14 | 235167.31 | 232024.97 | 232686.14 | 0.96 | ppb |
| Calcium | 44-1 | 227864.41 | 235250.01 | 233936.63 | 232350.35 | 1.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 542.09 | 499.04 | 501.84 | 514.32 | 4.68 | ppb |
| Cobalt | 59-2 | 522.30 | 482.81 | 489.36 | 498.16 | 4.25 | ppb |
| Copper | 63-2 | 5102.99 | 4603.10 | 4753.20 | 4819.76 | 5.32 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 128532.72 | 118822.60 | 118638.78 | 121998.03 | 4.64 | ppb |
| Iron | 56-2 | 130665.72 | 117965.08 | 119939.05 | 122856.62 | 5.56 | ppb |
| Iron | 57-2 | 128826.45 | 117706.76 | 118974.36 | 121835.86 | 5.00 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2425.11 | 2499.37 | 2589.27 | 2504.58 | 3.28 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2459.82 | 2539.45 | 2578.64 | 2525.97 | 2.40 | ppb |
| Lead | 208-1 | 2443.02 | 2518.40 | 2554.69 | 2505.37 | 2.27 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 259256.42 | 232594.26 | 240850.07 | 244233.58 | 5.59 | ppb |
| Manganese | 55-2 | 5281.27 | 4838.35 | 4864.12 | 4994.58 | 4.98 | ppb |
| Molybdenum | 94-1 | 4791.36 | 5032.83 | 4897.23 | 4907.14 | 2.47 | ppb |
| Molybdenum | 95-1 | 4764.71 | 5015.34 | 4841.41 | 4873.82 | 2.63 | ppb |
| Molybdenum | 96-1 | 4787.00 | 5005.24 | 4882.20 | 4891.48 | 2.24 | ppb |
| Molybdenum | 97-1 | 4757.36 | 4891.54 | 4957.69 | 4868.86 | 2.10 | ppb |
| Molybdenum | 98-1 | 4742.68 | 4958.26 | 4940.55 | 4880.50 | 2.45 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 491.40 | 446.18 | 454.02 | 463.87 | 5.21 | ppb |
| Phosphorus | 31-2 | 10611.67 | 9697.40 | 9740.24 | 10016.43 | 5.15 | ppb |
| Potassium | 39-2 | 127620.87 | 117111.33 | 119999.29 | 121577.16 | 4.47 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 460.35 | 482.12 | 468.82 | 470.43 | 2.33 | ppb |
| Selenium | 77-2 | 541.58 | 475.70 | 473.95 | 497.08 | 7.75 | ppb |
| Selenium | 78-2 | 532.87 | 474.68 | 475.93 | 494.49 | 6.72 | ppb |
| Silicon | 28-1 | 477.60 | 507.47 | 500.85 | 495.31 | 3.17 | ppb |
| Silver | 107-1 | 473.33 | 481.52 | 477.20 | 477.35 | 0.86 | ppb |
| Silver | 109-1 | 475.85 | 482.11 | 481.68 | 479.88 | 0.73 | ppb |
| Sodium | 23-2 | 261939.28 | 242293.41 | 237994.85 | 247409.18 | 5.16 | ppb |
| Strontium | 86-1 | 486.55 | 505.74 | 505.08 | 499.12 | 2.18 | ppb |
| Strontium | 88-1 | 487.45 | 496.59 | 496.57 | 493.54 | 1.07 | ppb |
| Sulfur | 34-1 | 9626.86 | 10176.79 | 10154.59 | 9986.08 | 3.12 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 495.03 | 505.35 | 528.80 | 509.73 | 3.40 | ppb |
| Thallium | 205-1 | 500.12 | 498.17 | 512.33 | 503.54 | 1.52 | ppb |
| Tin | 118-1 | 498.03 | 501.32 | 504.55 | 501.30 | 0.65 | ppb |
| Titanium | 47-1 | 4786.19 | 4966.89 | 4907.85 | 4886.97 | 1.89 | ppb |
| Uranium | 238-1 | 492.64 | 513.40 | 501.23 | 502.42 | 2.08 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 543.84 | 492.98 | 502.69 | 513.17 | 5.26 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 96 | | % |
| Zinc | 66-2 | 5035.40 | 4646.95 | 4663.86 | 4782.07 | 4.59 | ppb |
| Zirconium | 90-1 | 486.48 | 509.31 | 500.06 | 498.62 | 2.30 | ppb |
| Zirconium | 91-1 | 488.41 | 517.57 | 494.07 | 500.02 | 3.09 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.26 | 0.89 | 1.16 | 1.10 | 17.69 | ppb |
| Antimony | 121-1 | 0.15 | 0.14 | 0.13 | 0.14 | 9.99 | ppb |
| Arsenic | 75-2 | 0.00 | -0.02 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.12 | 0.10 | 0.07 | 0.10 | 30.79 | ppb |
| Barium | 137-1 | 0.17 | 0.08 | 0.05 | 0.10 | 59.31 | ppb |
| Beryllium | 9-1 | 0.22 | 0.20 | 0.18 | 0.20 | 11.47 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.04 | -0.02 | 0.01 | 257.14 | ppb |
| Cadmium | 106-1 | -0.02 | 0.57 | 0.29 | 0.28 | 104.63 | ppb |
| Cadmium | 111-1 | 0.05 | 0.06 | 0.05 | 0.05 | 17.48 | ppb |
| Calcium | 43-1 | 9.62 | 6.73 | 5.80 | 7.38 | 27.05 | ppb |
| Calcium | 44-1 | 12.90 | 6.88 | 5.29 | 8.36 | 48.06 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.09 | 0.09 | 0.13 | 0.10 | 23.27 | ppb |
| Cobalt | 59-2 | 0.03 | 0.02 | 0.02 | 0.02 | 29.34 | ppb |
| Copper | 63-2 | 0.23 | 0.10 | 0.18 | 0.17 | 40.28 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 3.85 | 3.23 | 3.29 | 3.46 | 9.79 | ppb |
| Iron | 56-2 | 4.52 | 3.19 | 3.77 | 3.82 | 17.44 | ppb |
| Iron | 57-2 | 4.18 | 3.52 | 3.32 | 3.67 | 12.23 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.34 | 0.26 | 0.23 | 0.28 | 19.86 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.34 | 0.28 | 0.22 | 0.28 | 20.87 | ppb |
| Lead | 208-1 | 0.34 | 0.27 | 0.24 | 0.28 | 19.09 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | -0.26 | -2.51 | -1.55 | -1.44 | | ppb |
| Manganese | 55-2 | 0.25 | 0.16 | 0.18 | 0.20 | 24.03 | ppb |
| Molybdenum | 94-1 | 0.45 | 0.26 | 0.22 | 0.31 | 39.62 | ppb |
| Molybdenum | 95-1 | 0.37 | 0.27 | 0.21 | 0.28 | 28.57 | ppb |
| Molybdenum | 96-1 | 0.38 | 0.26 | 0.20 | 0.28 | 33.87 | ppb |
| Molybdenum | 97-1 | 0.38 | 0.25 | 0.20 | 0.28 | 34.85 | ppb |
| Molybdenum | 98-1 | 0.37 | 0.24 | 0.18 | 0.26 | 36.45 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.39 | 0.26 | 0.36 | 0.34 | 21.29 | ppb |
| Phosphorus | 31-2 | -36.35 | -30.47 | -26.59 | -31.14 | | ppb |
| Potassium | 39-2 | 35.35 | 15.48 | 26.04 | 25.62 | 38.81 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | -0.25 | 0.14 | -0.02 | -0.04 | | ppb |
| Selenium | 77-2 | 0.00 | 0.60 | 0.00 | 0.20 | 173.21 | ppb |
| Selenium | 78-2 | -0.80 | -0.66 | -0.23 | -0.56 | | ppb |
| Silicon | 28-1 | -4.12 | -4.57 | -3.51 | -4.07 | | ppb |
| Silver | 107-1 | 0.08 | 0.06 | 0.06 | 0.07 | 17.39 | ppb |
| Silver | 109-1 | 0.09 | 0.06 | 0.05 | 0.07 | 25.91 | ppb |
| Sodium | 23-2 | 54.45 | 30.56 | 39.48 | 41.50 | 29.09 | ppb |
| Strontium | 86-1 | 0.05 | 0.03 | 0.02 | 0.03 | 45.55 | ppb |
| Strontium | 88-1 | 0.05 | 0.04 | 0.03 | 0.04 | 17.54 | ppb |
| Sulfur | 34-1 | -880.11 | -867.00 | -633.24 | -793.45 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.04 | 0.05 | 20.93 | ppb |
| Thallium | 205-1 | 0.06 | 0.05 | 0.05 | 0.05 | 12.22 | ppb |
| Tin | 118-1 | 0.03 | 0.01 | 0.01 | 0.02 | 81.27 | ppb |
| Titanium | 47-1 | 0.28 | 0.18 | 0.16 | 0.21 | 33.10 | ppb |
| Uranium | 238-1 | 0.03 | 0.02 | 0.01 | 0.02 | 47.36 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.02 | 0.01 | 0.02 | 0.02 | 10.28 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 0.02 | -0.03 | -0.03 | -0.02 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.04 | 0.03 | 0.04 | 20.13 | ppb |
| Zirconium | 91-1 | 0.05 | 0.03 | 0.03 | 0.04 | 25.14 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.25 | 0.21 | 0.51 | 0.32 | 49.65 | ppb |
| Antimony | 121-1 | 0.03 | 0.04 | 0.04 | 0.03 | 13.02 | ppb |
| Arsenic | 75-2 | -0.01 | 0.03 | -0.02 | 0.00 | 1397.55 | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.00 | 0.00 | 200.67 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.11 | 0.09 | 0.11 | 0.10 | 6.87 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.01 | 0.02 | 0.03 | 57.49 | ppb |
| Cadmium | 106-1 | 0.29 | 0.55 | -0.08 | 0.25 | 124.34 | ppb |
| Cadmium | 111-1 | 0.03 | 0.06 | 0.00 | 0.03 | 105.80 | ppb |
| Calcium | 43-1 | -2.70 | -2.36 | -3.02 | -2.69 | | ppb |
| Calcium | 44-1 | -2.45 | -3.32 | -3.43 | -3.07 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.15 | -0.14 | -0.12 | -0.13 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.01 | 0.00 | 0.01 | 72.21 | ppb |
| Copper | 63-2 | 0.02 | -0.02 | 0.03 | 0.01 | 276.43 | 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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 0.88 | 0.55 | 0.80 | 0.75 | 22.92 | ppb |
| Iron | 56-2 | 0.86 | 0.82 | 0.83 | 0.84 | 2.22 | ppb |
| Iron | 57-2 | 0.50 | 0.27 | 0.64 | 0.47 | 39.90 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.10 | 0.10 | 0.10 | 5.27 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.12 | 0.11 | 0.11 | 0.11 | 3.80 | ppb |
| Lead | 208-1 | 0.11 | 0.11 | 0.10 | 0.11 | 5.34 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -3.96 | -3.55 | -3.51 | -3.67 | | ppb |
| Manganese | 55-2 | 0.03 | 0.05 | 0.04 | 0.04 | 14.37 | ppb |
| Molybdenum | 94-1 | 0.05 | 0.05 | 0.04 | 0.05 | 4.37 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.68 | ppb |
| Molybdenum | 96-1 | 0.03 | 0.02 | 0.02 | 0.03 | 16.39 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.29 | ppb |
| Molybdenum | 98-1 | 0.03 | 0.03 | 0.02 | 0.03 | 18.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.23 | 0.24 | 0.18 | 0.22 | 16.18 | ppb |
| Phosphorus | 31-2 | -20.58 | -22.17 | -28.19 | -23.65 | | ppb |
| Potassium | 39-2 | 23.29 | 25.10 | 24.79 | 24.40 | 3.96 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | -0.02 | -0.07 | -0.21 | -0.10 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.82 | -0.43 | -1.01 | -0.75 | | ppb |
| Silicon | 28-1 | -4.67 | -5.24 | -5.52 | -5.14 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 14.52 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.30 | ppb |
| Sodium | 23-2 | 17.94 | 18.89 | 18.60 | 18.47 | 2.64 | ppb |
| Strontium | 86-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.52 | ppb |
| Strontium | 88-1 | 0.02 | 0.01 | 0.02 | 0.02 | 8.85 | ppb |
| Sulfur | 34-1 | 281.72 | -54.87 | -179.21 | 15.88 | 1501.83 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.02 | 0.02 | 27.86 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.80 | ppb |
| Tin | 118-1 | 0.01 | 0.00 | 0.01 | 0.01 | 58.56 | ppb |
| Titanium | 47-1 | 0.03 | 0.00 | 0.00 | 0.01 | 148.19 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 54.05 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | -0.26 | -0.21 | -0.27 | -0.25 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.01 | 0.00 | 0.00 | 22.11 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.01 | 0.01 | 71.68 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9617.86 | 9459.01 | 9305.35 | 9460.74 | 1.65 | ppb |
| Antimony | 121-1 | 527.69 | 520.32 | 528.17 | 525.39 | 0.84 | ppb |
| Arsenic | 75-2 | 514.84 | 503.23 | 512.91 | 510.33 | 1.22 | ppb |
| Barium | 135-1 | 2616.37 | 2543.75 | 2604.34 | 2588.15 | 1.50 | ppb |
| Barium | 137-1 | 2604.88 | 2578.25 | 2557.28 | 2580.14 | 0.92 | ppb |
| Beryllium | 9-1 | 496.55 | 489.02 | 488.41 | 491.32 | 0.92 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 534.21 | 532.57 | 524.82 | 530.53 | 0.95 | ppb |
| Cadmium | 106-1 | 535.81 | 522.43 | 526.15 | 528.13 | 1.31 | ppb |
| Cadmium | 111-1 | 531.96 | 527.17 | 522.83 | 527.32 | 0.87 | ppb |
| Calcium | 43-1 | 51497.59 | 48371.82 | 48767.22 | 49545.54 | 3.44 | ppb |
| Calcium | 44-1 | 50224.25 | 47831.25 | 48521.95 | 48859.15 | 2.52 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 525.89 | 516.78 | 511.79 | 518.16 | 1.38 | ppb |
| Cobalt | 59-2 | 519.75 | 507.38 | 503.85 | 510.33 | 1.64 | ppb |
| Copper | 63-2 | 5174.52 | 5020.59 | 5010.62 | 5068.58 | 1.81 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 25681.97 | 25156.02 | 24770.51 | 25202.84 | 1.82 | ppb |
| Iron | 56-2 | 25183.18 | 24543.45 | 24288.82 | 24671.82 | 1.87 | ppb |
| Iron | 57-2 | 25831.70 | 24782.26 | 24767.32 | 25127.10 | 2.43 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2593.75 | 2543.02 | 2595.65 | 2577.47 | 1.16 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2563.51 | 2556.92 | 2584.76 | 2568.40 | 0.57 | ppb |
| Lead | 208-1 | 2568.56 | 2541.59 | 2568.47 | 2559.54 | 0.61 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 52629.99 | 50776.68 | 50146.70 | 51184.46 | 2.52 | ppb |
| Manganese | 55-2 | 5101.25 | 5045.01 | 4913.79 | 5020.02 | 1.92 | ppb |
| Molybdenum | 94-1 | 5054.41 | 5010.87 | 5042.87 | 5036.05 | 0.45 | ppb |
| Molybdenum | 95-1 | 5069.03 | 4984.07 | 5090.00 | 5047.70 | 1.11 | ppb |
| Molybdenum | 96-1 | 5023.34 | 4990.67 | 4961.51 | 4991.84 | 0.62 | ppb |
| Molybdenum | 97-1 | 5022.25 | 5080.47 | 4913.06 | 5005.26 | 1.70 | ppb |
| Molybdenum | 98-1 | 5045.86 | 5020.14 | 4960.54 | 5008.85 | 0.87 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 522.00 | 501.39 | 503.22 | 508.87 | 2.24 | ppb |
| Phosphorus | 31-2 | 10356.48 | 10039.85 | 9829.80 | 10075.38 | 2.63 | ppb |
| Potassium | 39-2 | 25091.51 | 24382.57 | 24007.36 | 24493.81 | 2.25 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 505.11 | 496.75 | 504.55 | 502.14 | 0.93 | ppb |
| Selenium | 77-2 | 527.78 | 509.09 | 492.29 | 509.72 | 3.48 | ppb |
| Selenium | 78-2 | 464.63 | 493.35 | 504.41 | 487.46 | 4.21 | ppb |
| Silicon | 28-1 | 519.84 | 492.70 | 502.71 | 505.08 | 2.72 | ppb |
| Silver | 107-1 | 532.09 | 514.64 | 529.07 | 525.26 | 1.78 | ppb |
| Silver | 109-1 | 531.34 | 522.75 | 517.41 | 523.83 | 1.34 | ppb |
| Sodium | 23-2 | 53217.27 | 51227.82 | 50330.06 | 51591.72 | 2.86 | ppb |
| Strontium | 86-1 | 519.56 | 508.32 | 511.91 | 513.26 | 1.12 | ppb |
| Strontium | 88-1 | 507.36 | 502.54 | 507.63 | 505.84 | 0.57 | ppb |
| Sulfur | 34-1 | 10689.85 | 9636.12 | 10278.55 | 10201.51 | 5.21 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 512.28 | 517.80 | 516.92 | 515.67 | 0.57 | ppb |
| Thallium | 205-1 | 517.79 | 497.64 | 513.20 | 509.54 | 2.07 | ppb |
| Tin | 118-1 | 529.60 | 522.82 | 511.96 | 521.46 | 1.71 | ppb |
| Titanium | 47-1 | 5144.01 | 4933.33 | 5002.71 | 5026.68 | 2.14 | ppb |
| Uranium | 238-1 | 496.27 | 492.88 | 486.42 | 491.86 | 1.02 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 513.58 | 500.60 | 495.80 | 503.32 | 1.83 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 5304.36 | 5076.62 | 5064.91 | 5148.63 | 2.62 | ppb |
| Zirconium | 90-1 | 512.27 | 498.00 | 506.40 | 505.56 | 1.42 | ppb |
| Zirconium | 91-1 | 515.78 | 502.27 | 511.22 | 509.76 | 1.35 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-01242 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 74.35 | 76.45 | 78.14 | 76.31 | 2.49 | ppb |
| Antimony | 121-1 | 0.26 | 0.24 | 0.24 | 0.25 | 3.49 | ppb |
| Arsenic | 75-2 | 4.41 | 4.92 | 5.17 | 4.83 | 8.03 | ppb |
| Barium | 135-1 | 160.65 | 159.38 | 156.21 | 158.75 | 1.44 | ppb |
| Barium | 137-1 | 162.25 | 161.43 | 158.76 | 160.82 | 1.14 | ppb |
| Beryllium | 9-1 | 0.23 | 0.21 | 0.22 | 0.22 | 4.77 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.25 | 0.17 | 0.22 | 0.21 | 19.30 | ppb |
| Cadmium | 106-1 | 0.48 | 0.10 | 0.80 | 0.46 | 75.41 | ppb |
| Cadmium | 111-1 | 0.13 | 0.09 | 0.14 | 0.12 | 24.58 | ppb |
| Calcium | 43-1 | 67784.53 | 65365.48 | 64640.46 | 65930.15 | 2.50 | ppb |
| Calcium | 44-1 | 66105.96 | 65239.25 | 63497.12 | 64947.45 | 2.05 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.35 | 0.39 | 0.36 | 0.37 | 5.56 | ppb |
| Cobalt | 59-2 | 73.36 | 77.97 | 77.59 | 76.31 | 3.35 | ppb |
| Copper | 63-2 | 0.64 | 0.71 | 0.68 | 0.68 | 5.03 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 21843.54 | 23391.17 | 22738.14 | 22657.62 | 3.43 | ppb |
| Iron | 56-2 | 21552.41 | 23003.40 | 22552.05 | 22369.29 | 3.32 | ppb |
| Iron | 57-2 | 22125.93 | 23496.55 | 22932.66 | 22851.71 | 3.01 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.73 | 0.73 | 0.70 | 0.72 | 2.60 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-012425 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.71 | 0.69 | 0.65 | 0.68 | 3.92 | ppb |
| Lead | 208-1 | 0.72 | 0.70 | 0.67 | 0.69 | 3.30 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 7570.31 | 7881.35 | 7896.55 | 7782.73 | 2.37 | ppb |
| Manganese | 55-2 | 1982.79 | 2108.58 | 2071.24 | 2054.21 | 3.14 | ppb |
| Molybdenum | 94-1 | 0.62 | 0.59 | 0.56 | 0.59 | 4.97 | ppb |
| Molybdenum | 95-1 | 0.43 | 0.37 | 0.35 | 0.38 | 10.53 | ppb |
| Molybdenum | 96-1 | 0.46 | 0.37 | 0.37 | 0.40 | 11.74 | ppb |
| Molybdenum | 97-1 | 0.45 | 0.36 | 0.36 | 0.39 | 13.17 | ppb |
| Molybdenum | 98-1 | 0.41 | 0.34 | 0.33 | 0.36 | 12.15 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 71.60 | 75.43 | 75.74 | 74.26 | 3.10 | ppb |
| Phosphorus | 31-2 | -16.20 | -16.37 | -14.91 | -15.83 | | ppb |
| Potassium | 39-2 | 2769.59 | 2914.64 | 2908.31 | 2864.18 | 2.86 | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.25 | 0.29 | 0.29 | 0.28 | 7.46 | ppb |
| Selenium | 77-2 | 1.30 | 1.39 | 2.04 | 1.58 | 25.58 | ppb |
| Selenium | 78-2 | -0.25 | 0.00 | 0.38 | 0.04 | 724.26 | ppb |
| Silicon | 28-1 | 6891.05 | 6633.32 | 6551.71 | 6692.03 | 2.65 | ppb |
| Silver | 107-1 | 0.05 | 0.04 | 0.04 | 0.04 | 17.63 | ppb |
| Silver | 109-1 | 0.04 | 0.04 | 0.04 | 0.04 | 3.08 | ppb |
| Sodium | 23-2 | 2245.32 | 2407.21 | 2366.29 | 2339.61 | 3.60 | ppb |
| Strontium | 86-1 | 341.01 | 336.71 | 342.94 | 340.22 | 0.94 | ppb |
| Strontium | 88-1 | 341.04 | 336.51 | 334.93 | 337.49 | 0.94 | ppb |
| Sulfur | 34-1 | 20562.33 | 20121.84 | 19569.46 | 20084.54 | 2.48 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.28 | 0.29 | 0.27 | 0.28 | 3.60 | ppb |
| Thallium | 205-1 | 0.28 | 0.28 | 0.28 | 0.28 | 1.35 | ppb |
| Tin | 118-1 | 0.37 | 0.34 | 0.33 | 0.35 | 5.26 | ppb |
| Titanium | 47-1 | 2.58 | 2.32 | 2.38 | 2.43 | 5.66 | ppb |
| Uranium | 238-1 | 0.21 | 0.20 | 0.20 | 0.20 | 2.59 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-01242 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.43 | 0.42 | 0.44 | 0.43 | 2.63 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 1302.75 | 1390.17 | 1360.26 | 1351.06 | 3.29 | ppb |
| Zirconium | 90-1 | 0.16 | 0.16 | 0.15 | 0.16 | 5.12 | ppb |
| Zirconium | 91-1 | 0.16 | 0.14 | 0.15 | 0.15 | 5.62 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 167.55 | 170.08 | 177.04 | 171.56 | 2.86 | ppb |
| Antimony | 121-1 | 0.13 | 0.12 | 0.13 | 0.13 | 2.46 | ppb |
| Arsenic | 75-2 | 3.81 | 3.55 | 3.64 | 3.67 | 3.63 | ppb |
| Barium | 135-1 | 42.65 | 39.58 | 41.37 | 41.20 | 3.74 | ppb |
| Barium | 137-1 | 41.92 | 40.04 | 40.95 | 40.97 | 2.29 | ppb |
| Beryllium | 9-1 | 0.11 | 0.12 | 0.11 | 0.12 | 2.61 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.14 | 0.15 | 0.11 | 0.13 | 16.58 | ppb |
| Cadmium | 106-1 | 1.11 | 0.80 | 0.41 | 0.77 | 45.10 | ppb |
| Cadmium | 111-1 | 0.10 | 0.06 | 0.04 | 0.07 | 47.29 | ppb |
| Calcium | 43-1 | 35350.99 | 33713.59 | 33451.13 | 34171.90 | 3.01 | ppb |
| Calcium | 44-1 | 34839.18 | 33363.61 | 33245.77 | 33816.19 | 2.63 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.08 | 1.10 | 1.07 | 1.08 | 1.73 | ppb |
| Cobalt | 59-2 | 0.48 | 0.50 | 0.49 | 0.49 | 2.49 | ppb |
| Copper | 63-2 | 0.46 | 0.44 | 0.50 | 0.47 | 6.79 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 18659.73 | 18728.59 | 18903.19 | 18763.83 | 0.67 | ppb |
| Iron | 56-2 | 18502.76 | 18756.58 | 18402.03 | 18553.79 | 0.98 | ppb |
| Iron | 57-2 | 18964.16 | 18898.56 | 18889.49 | 18917.41 | 0.22 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.29 | 0.28 | 0.31 | 0.30 | 5.03 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.40 | 0.32 | 0.31 | 0.34 | 14.05 | ppb |
| Lead | 208-1 | 0.33 | 0.29 | 0.30 | 0.31 | 7.49 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 2329.37 | 2328.28 | 2334.11 | 2330.59 | 0.13 | ppb |
| Manganese | 55-2 | 158.17 | 158.49 | 160.22 | 158.96 | 0.69 | ppb |
| Molybdenum | 94-1 | 3.73 | 3.61 | 4.43 | 3.92 | 11.27 | ppb |
| Molybdenum | 95-1 | 3.44 | 3.40 | 3.40 | 3.42 | 0.68 | ppb |
| Molybdenum | 96-1 | 3.46 | 3.36 | 3.37 | 3.40 | 1.56 | ppb |
| Molybdenum | 97-1 | 3.45 | 3.37 | 3.40 | 3.40 | 1.15 | ppb |
| Molybdenum | 98-1 | 3.49 | 3.32 | 3.32 | 3.38 | 3.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.97 | 0.92 | 0.95 | 0.95 | 2.95 | ppb |
| Phosphorus | 31-2 | -8.95 | -8.57 | -12.23 | -9.92 | | ppb |
| Potassium | 39-2 | 1784.84 | 1795.42 | 1797.75 | 1792.67 | 0.38 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.11 | 0.00 | 0.16 | 0.09 | 87.49 | ppb |
| Selenium | 77-2 | 0.66 | 0.66 | 0.66 | 0.66 | 0.20 | ppb |
| Selenium | 78-2 | 0.53 | -0.24 | -0.05 | 0.08 | 503.75 | ppb |
| Silicon | 28-1 | 3580.32 | 3243.17 | 3388.37 | 3403.95 | 4.97 | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.02 | 0.02 | 13.13 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.01 | 0.01 | 15.12 | ppb |
| Sodium | 23-2 | 56046.61 | 56019.88 | 56490.59 | 56185.69 | 0.47 | ppb |
| Strontium | 86-1 | 82.24 | 80.26 | 80.64 | 81.05 | 1.30 | ppb |
| Strontium | 88-1 | 86.50 | 82.79 | 83.19 | 84.16 | 2.42 | ppb |
| Sulfur | 34-1 | 1684.25 | 979.50 | 1085.39 | 1249.71 | 30.41 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 2.93 | ppb |
| Thallium | 205-1 | 0.04 | 0.03 | 0.03 | 0.03 | 9.72 | ppb |
| Tin | 118-1 | 0.21 | 0.18 | 0.20 | 0.20 | 8.70 | ppb |
| Titanium | 47-1 | 5.16 | 6.14 | 4.95 | 5.42 | 11.71 | ppb |
| Uranium | 238-1 | 0.40 | 0.36 | 0.37 | 0.37 | 6.13 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1.11 | 1.13 | 1.04 | 1.09 | 4.41 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 1.04 | 0.96 | 1.04 | 1.02 | 4.36 | ppb |
| Zirconium | 90-1 | 0.44 | 0.43 | 0.52 | 0.47 | 10.44 | ppb |
| Zirconium | 91-1 | 0.44 | 0.43 | 0.41 | 0.43 | 4.05 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 85.84 | 83.17 | 93.72 | 87.58 | 6.26 | ppb |
| Antimony | 121-1 | 0.11 | 0.10 | 0.11 | 0.10 | 7.02 | ppb |
| Arsenic | 75-2 | 3.57 | 3.54 | 3.50 | 3.54 | 0.93 | ppb |
| Barium | 135-1 | 39.67 | 41.02 | 40.09 | 40.26 | 1.72 | ppb |
| Barium | 137-1 | 40.10 | 41.26 | 40.46 | 40.61 | 1.47 | ppb |
| Beryllium | 9-1 | 0.10 | 0.09 | 0.08 | 0.09 | 7.20 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.08 | 0.04 | 0.10 | 0.07 | 37.29 | ppb |
| Cadmium | 106-1 | 0.61 | 1.28 | -0.21 | 0.56 | 133.25 | ppb |
| Cadmium | 111-1 | 0.05 | 0.11 | -0.02 | 0.05 | 132.79 | ppb |
| Calcium | 43-1 | 33623.77 | 35708.70 | 33731.30 | 34354.59 | 3.42 | ppb |
| Calcium | 44-1 | 32766.84 | 35358.68 | 33545.59 | 33890.37 | 3.92 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.94 | 1.01 | 1.01 | 0.99 | 4.22 | ppb |
| Cobalt | 59-2 | 0.50 | 0.50 | 0.46 | 0.49 | 4.09 | ppb |
| Copper | 63-2 | 0.38 | 0.39 | 0.38 | 0.39 | 1.89 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 18157.46 | 18060.73 | 18282.28 | 18166.82 | 0.61 | ppb |
| Iron | 56-2 | 18135.30 | 18099.18 | 17915.38 | 18049.95 | 0.65 | ppb |
| Iron | 57-2 | 18278.92 | 18577.28 | 18248.18 | 18368.13 | 0.99 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.24 | 0.26 | 0.24 | 0.25 | 4.46 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.26 | 0.24 | 0.24 | 0.25 | 4.75 | ppb |
| Lead | 208-1 | 0.25 | 0.25 | 0.24 | 0.25 | 3.93 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 2309.07 | 2273.21 | 2283.92 | 2288.74 | 0.80 | ppb |
| Manganese | 55-2 | 155.18 | 155.34 | 153.47 | 154.66 | 0.67 | ppb |
| Molybdenum | 94-1 | 3.25 | 3.47 | 3.37 | 3.37 | 3.19 | ppb |
| Molybdenum | 95-1 | 3.24 | 3.42 | 3.29 | 3.32 | 2.71 | ppb |
| Molybdenum | 96-1 | 3.28 | 3.34 | 3.33 | 3.31 | 1.00 | ppb |
| Molybdenum | 97-1 | 3.18 | 3.42 | 3.25 | 3.28 | 3.65 | ppb |
| Molybdenum | 98-1 | 3.18 | 3.38 | 3.28 | 3.28 | 3.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.92 | 0.88 | 0.99 | 0.93 | 6.21 | ppb |
| Phosphorus | 31-2 | -16.90 | -15.33 | -5.77 | -12.67 | | ppb |
| Potassium | 39-2 | 1734.77 | 1741.55 | 1747.57 | 1741.30 | 0.37 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.35 | -0.04 | 0.25 | 0.19 | 109.11 | ppb |
| Selenium | 77-2 | 0.66 | 0.66 | 1.97 | 1.10 | 69.37 | ppb |
| Selenium | 78-2 | -0.05 | -0.62 | -0.43 | -0.37 | | ppb |
| Silicon | 28-1 | 3227.70 | 3542.28 | 3296.17 | 3355.38 | 4.93 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.29 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 3.73 | ppb |
| Sodium | 23-2 | 55547.58 | 55343.57 | 55387.25 | 55426.13 | 0.19 | ppb |
| Strontium | 86-1 | 77.82 | 79.92 | 78.84 | 78.86 | 1.33 | ppb |
| Strontium | 88-1 | 81.19 | 84.15 | 82.06 | 82.47 | 1.84 | ppb |
| Sulfur | 34-1 | 1208.21 | 1933.04 | 1109.24 | 1416.83 | 31.75 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.18 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.26 | ppb |
| Tin | 118-1 | 0.17 | 0.23 | 0.20 | 0.20 | 15.11 | ppb |
| Titanium | 47-1 | 1.51 | 4.63 | 2.86 | 3.00 | 52.17 | ppb |
| Uranium | 238-1 | 0.36 | 0.37 | 0.36 | 0.36 | 2.10 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.96 | 0.92 | 0.95 | 0.94 | 1.84 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 1.53 | 1.40 | 1.14 | 1.36 | 14.51 | ppb |
| Zirconium | 90-1 | 0.33 | 0.36 | 0.34 | 0.34 | 4.16 | ppb |
| Zirconium | 91-1 | 0.33 | 0.38 | 0.35 | 0.35 | 7.57 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22.09 | 16.01 | 15.96 | 18.02 | 19.54 | ppb |
| Antimony | 121-1 | 0.04 | 0.05 | 0.05 | 0.05 | 11.24 | ppb |
| Arsenic | 75-2 | 0.66 | 0.58 | 0.70 | 0.65 | 9.57 | ppb |
| Barium | 135-1 | 7.71 | 8.03 | 8.23 | 7.99 | 3.28 | ppb |
| Barium | 137-1 | 7.90 | 8.02 | 8.11 | 8.01 | 1.36 | ppb |
| Beryllium | 9-1 | 0.07 | 0.06 | 0.07 | 0.07 | 11.40 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.04 | 0.03 | 0.03 | 79.14 | ppb |
| Cadmium | 106-1 | 1.13 | 0.40 | 0.33 | 0.62 | 71.35 | ppb |
| Cadmium | 111-1 | 0.09 | 0.03 | 0.03 | 0.05 | 76.28 | ppb |
| Calcium | 43-1 | 6437.73 | 6480.23 | 6616.56 | 6511.51 | 1.43 | ppb |
| Calcium | 44-1 | 6395.00 | 6626.77 | 6684.19 | 6568.65 | 2.33 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.25 | 0.23 | 0.26 | 0.24 | 6.42 | ppb |
| Cobalt | 59-2 | 0.09 | 0.10 | 0.10 | 0.10 | 2.59 | ppb |
| Copper | 63-2 | 0.04 | 0.05 | 0.08 | 0.06 | 43.01 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 54-2 | 3482.16 | 3455.25 | 3534.63 | 3490.68 | 1.16 | ppb |
| Iron | 56-2 | 3494.78 | 3586.76 | 3625.69 | 3569.08 | 1.88 | ppb |
| Iron | 57-2 | 3467.17 | 3461.90 | 3522.39 | 3483.82 | 0.96 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.10 | 0.08 | 0.09 | 11.42 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.09 | 0.08 | 0.09 | 8.30 | ppb |
| Lead | 208-1 | 0.09 | 0.10 | 0.08 | 0.09 | 6.88 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 443.93 | 445.05 | 454.50 | 447.83 | 1.30 | ppb |
| Manganese | 55-2 | 30.58 | 29.98 | 31.22 | 30.59 | 2.03 | ppb |
| Molybdenum | 94-1 | 0.67 | 0.73 | 0.67 | 0.69 | 5.56 | ppb |
| Molybdenum | 95-1 | 0.67 | 0.65 | 0.66 | 0.66 | 1.38 | ppb |
| Molybdenum | 96-1 | 0.66 | 0.65 | 0.65 | 0.65 | 0.80 | ppb |
| Molybdenum | 97-1 | 0.64 | 0.69 | 0.69 | 0.67 | 3.85 | ppb |
| Molybdenum | 98-1 | 0.64 | 0.66 | 0.66 | 0.66 | 1.97 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.44 | 0.47 | 0.45 | 0.45 | 4.16 | ppb |
| Phosphorus | 31-2 | -18.20 | -28.70 | -21.80 | -22.90 | | ppb |
| Potassium | 39-2 | 362.58 | 358.15 | 371.39 | 364.04 | 1.85 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | -0.31 | 0.18 | 0.35 | 0.07 | 486.58 | ppb |
| Selenium | 77-2 | 0.64 | 1.95 | 0.00 | 0.86 | 115.16 | ppb |
| Selenium | 78-2 | -0.07 | -0.44 | -0.26 | -0.26 | | ppb |
| Silicon | 28-1 | 625.80 | 639.17 | 651.44 | 638.80 | 2.01 | ppb |
| Silver | 107-1 | 0.01 | 0.00 | 0.01 | 0.01 | 17.09 | ppb |
| Silver | 109-1 | 0.00 | 0.01 | 0.00 | 0.00 | 36.13 | ppb |
| Sodium | 23-2 | 10673.00 | 10821.22 | 10823.83 | 10772.68 | 0.80 | ppb |
| Strontium | 86-1 | 15.24 | 15.75 | 15.57 | 15.52 | 1.66 | ppb |
| Strontium | 88-1 | 15.38 | 15.94 | 15.69 | 15.67 | 1.77 | ppb |
| Sulfur | 34-1 | 208.55 | 387.84 | 334.43 | 310.27 | 29.67 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.42 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.13 | ppb |
| Tin | 118-1 | 0.02 | 0.02 | 0.04 | 0.03 | 34.06 | ppb |
| Titanium | 47-1 | 0.29 | 1.50 | 0.32 | 0.71 | 97.66 | ppb |
| Uranium | 238-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.36 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.19 | 0.17 | 0.19 | 0.18 | 5.12 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 0.11 | 0.12 | 0.02 | 0.08 | 63.24 | ppb |
| Zirconium | 90-1 | 0.07 | 0.07 | 0.07 | 0.07 | 2.32 | ppb |
| Zirconium | 91-1 | 0.06 | 0.07 | 0.06 | 0.06 | 12.99 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8724.24 | 8592.21 | 8513.17 | 8609.87 | 1.24 | ppb |
| Antimony | 121-1 | 528.23 | 512.79 | 498.04 | 513.02 | 2.94 | ppb |
| Arsenic | 75-2 | 3.76 | 3.42 | 3.96 | 3.71 | 7.31 | ppb |
| Barium | 135-1 | 2399.35 | 2301.13 | 2304.26 | 2334.91 | 2.39 | ppb |
| Barium | 137-1 | 2382.83 | 2313.56 | 2270.57 | 2322.32 | 2.44 | ppb |
| Beryllium | 9-1 | 502.82 | 486.37 | 472.81 | 487.33 | 3.08 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 486.86 | 470.74 | 472.73 | 476.78 | 1.84 | ppb |
| Cadmium | 106-1 | 528.51 | 501.71 | 507.89 | 512.70 | 2.74 | ppb |
| Cadmium | 111-1 | 526.07 | 501.79 | 512.10 | 513.32 | 2.37 | ppb |
| Calcium | 43-1 | 82749.56 | 76994.31 | 79924.51 | 79889.46 | 3.60 | ppb |
| Calcium | 44-1 | 82575.19 | 76407.48 | 78061.65 | 79014.77 | 4.04 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 487.57 | 483.85 | 470.22 | 480.55 | 1.90 | ppb |
| Cobalt | 59-2 | 488.32 | 487.17 | 486.78 | 487.42 | 0.16 | ppb |
| Copper | 63-2 | 4827.33 | 4742.18 | 4679.62 | 4749.71 | 1.56 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 38621.77 | 38265.80 | 37769.44 | 38219.00 | 1.12 | ppb |
| Iron | 56-2 | 38466.42 | 38278.85 | 37840.70 | 38195.33 | 0.84 | ppb |
| Iron | 57-2 | 39047.42 | 38791.69 | 38121.73 | 38653.61 | 1.24 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2609.31 | 2441.75 | 2450.48 | 2500.51 | 3.77 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2616.94 | 2450.42 | 2427.73 | 2498.37 | 4.14 | ppb |
| Lead | 208-1 | 2590.36 | 2433.96 | 2431.05 | 2485.12 | 3.67 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 49212.92 | 47390.83 | 47493.85 | 48032.53 | 2.13 | ppb |
| Manganese | 55-2 | 4901.62 | 4832.86 | 4797.13 | 4843.87 | 1.10 | ppb |
| Molybdenum | 94-1 | 2493.21 | 2291.52 | 2321.63 | 2368.79 | 4.59 | ppb |
| Molybdenum | 95-1 | 1891.74 | 1733.67 | 1757.23 | 1794.21 | 4.75 | ppb |
| Molybdenum | 96-1 | 1926.35 | 1765.87 | 1816.35 | 1836.19 | 4.47 | ppb |
| Molybdenum | 97-1 | 1846.85 | 1728.53 | 1738.29 | 1771.22 | 3.71 | ppb |
| Molybdenum | 98-1 | 1875.57 | 1737.26 | 1765.64 | 1792.82 | 4.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 462.38 | 460.12 | 454.92 | 459.14 | 0.83 | ppb |
| Phosphorus | 31-2 | -0.84 | -13.45 | -12.71 | -9.00 | | ppb |
| Potassium | 39-2 | 23319.01 | 22798.52 | 22399.66 | 22839.06 | 2.02 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 521.06 | 471.27 | 485.63 | 492.65 | 5.20 | ppb |
| Selenium | 77-2 | 478.31 | 507.61 | 483.19 | 489.70 | 3.21 | ppb |
| Selenium | 78-2 | 496.79 | 466.56 | 482.73 | 482.03 | 3.14 | ppb |
| Silicon | 28-1 | 3387.50 | 3298.73 | 3441.63 | 3375.95 | 2.14 | ppb |
| Silver | 107-1 | 90.98 | 87.47 | 87.65 | 88.70 | 2.23 | ppb |
| Silver | 109-1 | 91.77 | 87.48 | 86.88 | 88.71 | 3.01 | ppb |
| Sodium | 23-2 | 99034.80 | 96608.93 | 97019.60 | 97554.44 | 1.33 | ppb |
| Strontium | 86-1 | 710.64 | 656.27 | 669.30 | 678.73 | 4.18 | ppb |
| Strontium | 88-1 | 693.27 | 655.34 | 654.86 | 667.82 | 3.30 | ppb |
| Sulfur | 34-1 | 1723.50 | 1035.63 | 1249.90 | 1336.34 | 26.34 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 523.28 | 484.31 | 492.78 | 500.12 | 4.10 | ppb |
| Thallium | 205-1 | 517.02 | 482.59 | 488.91 | 496.18 | 3.69 | ppb |
| Tin | 118-1 | 468.37 | 455.04 | 455.11 | 459.50 | 1.67 | ppb |
| Titanium | 47-1 | 6.10 | 10.03 | 6.02 | 7.38 | 31.05 | ppb |
| Uranium | 238-1 | 496.42 | 469.77 | 468.98 | 478.39 | 3.26 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 497.37 | 486.26 | 484.30 | 489.31 | 1.44 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 4752.54 | 4748.60 | 4679.95 | 4727.03 | 0.86 | ppb |
| Zirconium | 90-1 | 522.66 | 471.97 | 484.73 | 493.12 | 5.35 | ppb |
| Zirconium | 91-1 | 517.75 | 472.74 | 484.52 | 491.67 | 4.75 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8405.36 | 8475.29 | 8526.68 | 8469.11 | 0.72 | ppb |
| Antimony | 121-1 | 490.91 | 491.51 | 491.45 | 491.29 | 0.07 | ppb |
| Arsenic | 75-2 | 3.59 | 3.70 | 3.55 | 3.61 | 2.07 | ppb |
| Barium | 135-1 | 2215.73 | 2254.57 | 2236.11 | 2235.47 | 0.87 | ppb |
| Barium | 137-1 | 2201.96 | 2215.77 | 2232.79 | 2216.84 | 0.70 | ppb |
| Beryllium | 9-1 | 470.49 | 474.91 | 471.43 | 472.28 | 0.49 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 456.40 | 463.41 | 458.05 | 459.29 | 0.80 | ppb |
| Cadmium | 106-1 | 488.22 | 495.94 | 488.90 | 491.02 | 0.87 | ppb |
| Cadmium | 111-1 | 479.63 | 479.54 | 490.52 | 483.23 | 1.31 | ppb |
| Calcium | 43-1 | 75281.76 | 77466.53 | 77662.00 | 76803.43 | 1.72 | ppb |
| Calcium | 44-1 | 74560.14 | 75875.62 | 76448.94 | 75628.23 | 1.28 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 465.22 | 464.43 | 469.83 | 466.49 | 0.63 | ppb |
| Cobalt | 59-2 | 483.15 | 472.50 | 479.53 | 478.39 | 1.13 | ppb |
| Copper | 63-2 | 4689.32 | 4647.43 | 4630.12 | 4655.62 | 0.65 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 38282.38 | 37987.58 | 37972.45 | 38080.80 | 0.46 | ppb |
| Iron | 56-2 | 38065.53 | 37287.29 | 38233.13 | 37861.99 | 1.33 | ppb |
| Iron | 57-2 | 39362.01 | 38089.08 | 38721.77 | 38724.28 | 1.64 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2390.02 | 2355.24 | 2360.21 | 2368.49 | 0.79 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2398.15 | 2389.19 | 2363.22 | 2383.52 | 0.76 | ppb |
| Lead | 208-1 | 2385.48 | 2378.29 | 2363.06 | 2375.61 | 0.48 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 47092.20 | 47546.20 | 48409.53 | 47682.64 | 1.40 | ppb |
| Manganese | 55-2 | 4767.53 | 4772.42 | 4859.37 | 4799.77 | 1.08 | ppb |
| Molybdenum | 94-1 | 2223.27 | 2241.68 | 2246.82 | 2237.26 | 0.55 | ppb |
| Molybdenum | 95-1 | 1673.44 | 1676.85 | 1696.10 | 1682.13 | 0.73 | ppb |
| Molybdenum | 96-1 | 1722.93 | 1741.40 | 1767.69 | 1744.01 | 1.29 | ppb |
| Molybdenum | 97-1 | 1680.82 | 1681.07 | 1713.32 | 1691.74 | 1.10 | ppb |
| Molybdenum | 98-1 | 1691.45 | 1710.85 | 1714.53 | 1705.61 | 0.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 451.60 | 449.31 | 452.69 | 451.20 | 0.38 | ppb |
| Phosphorus | 31-2 | 11.39 | 34.27 | 14.10 | 19.92 | 62.74 | ppb |
| Potassium | 39-2 | 22150.48 | 22472.08 | 21967.07 | 22196.54 | 1.15 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 469.70 | 475.36 | 476.83 | 473.96 | 0.79 | ppb |
| Selenium | 77-2 | 484.89 | 495.13 | 464.78 | 481.60 | 3.21 | ppb |
| Selenium | 78-2 | 460.80 | 477.41 | 461.85 | 466.68 | 1.99 | ppb |
| Silicon | 28-1 | 3120.10 | 3435.45 | 3207.18 | 3254.24 | 5.00 | ppb |
| Silver | 107-1 | 85.25 | 85.12 | 84.02 | 84.80 | 0.79 | ppb |
| Silver | 109-1 | 83.28 | 83.39 | 82.35 | 83.01 | 0.69 | ppb |
| Sodium | 23-2 | 97363.77 | 98536.71 | 98325.58 | 98075.36 | 0.64 | ppb |
| Strontium | 86-1 | 644.65 | 652.33 | 652.96 | 649.98 | 0.71 | ppb |
| Strontium | 88-1 | 636.13 | 643.97 | 639.20 | 639.77 | 0.62 | ppb |
| Sulfur | 34-1 | 907.77 | 1239.08 | 885.06 | 1010.64 | 19.61 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 467.65 | 478.37 | 472.04 | 472.69 | 1.14 | ppb |
| Thallium | 205-1 | 469.31 | 476.01 | 472.93 | 472.75 | 0.71 | ppb |
| Tin | 118-1 | 444.76 | 441.04 | 442.04 | 442.61 | 0.43 | ppb |
| Titanium | 47-1 | 4.51 | 10.06 | 9.45 | 8.01 | 38.03 | ppb |
| Uranium | 238-1 | 457.64 | 458.83 | 458.99 | 458.49 | 0.16 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 492.19 | 480.41 | 480.43 | 484.34 | 1.40 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 4748.80 | 4605.15 | 4603.12 | 4652.35 | 1.80 | ppb |
| Zirconium | 90-1 | 462.19 | 469.63 | 473.21 | 468.34 | 1.20 | ppb |
| Zirconium | 91-1 | 455.00 | 469.20 | 469.80 | 464.67 | 1.80 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8300.11 | 8576.90 | 8535.80 | 8470.94 | 1.76 | ppb |
| Antimony | 121-1 | 502.29 | 504.71 | 510.51 | 505.84 | 0.83 | ppb |
| Arsenic | 75-2 | 3.79 | 3.73 | 3.58 | 3.70 | 2.87 | ppb |
| Barium | 135-1 | 2208.56 | 2211.12 | 2228.19 | 2215.96 | 0.48 | ppb |
| Barium | 137-1 | 2210.62 | 2176.16 | 2233.83 | 2206.87 | 1.31 | ppb |
| Beryllium | 9-1 | 462.44 | 463.94 | 472.83 | 466.40 | 1.20 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 453.94 | 454.95 | 464.19 | 457.69 | 1.23 | ppb |
| Cadmium | 106-1 | 485.90 | 485.16 | 496.52 | 489.19 | 1.30 | ppb |
| Cadmium | 111-1 | 477.59 | 485.42 | 489.03 | 484.01 | 1.21 | ppb |
| Calcium | 43-1 | 78331.46 | 78051.44 | 77999.24 | 78127.38 | 0.23 | ppb |
| Calcium | 44-1 | 76609.45 | 76761.96 | 75627.30 | 76332.90 | 0.81 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 475.37 | 475.92 | 474.99 | 475.42 | 0.10 | ppb |
| Cobalt | 59-2 | 477.42 | 482.32 | 484.95 | 481.56 | 0.79 | ppb |
| Copper | 63-2 | 4602.82 | 4710.48 | 4653.57 | 4655.62 | 1.16 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 37598.45 | 38566.58 | 38366.14 | 38177.06 | 1.34 | ppb |
| Iron | 56-2 | 37984.80 | 38164.50 | 38069.38 | 38072.89 | 0.24 | ppb |
| Iron | 57-2 | 38281.10 | 38541.37 | 38800.16 | 38540.88 | 0.67 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2352.77 | 2457.99 | 2400.07 | 2403.61 | 2.19 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2351.41 | 2452.05 | 2399.14 | 2400.87 | 2.10 | ppb |
| Lead | 208-1 | 2347.95 | 2427.58 | 2387.00 | 2387.51 | 1.67 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 46785.45 | 48684.77 | 47372.48 | 47614.24 | 2.04 | ppb |
| Manganese | 55-2 | 4699.87 | 4793.08 | 4821.33 | 4771.43 | 1.33 | ppb |
| Molybdenum | 94-1 | 2229.90 | 2272.28 | 2243.87 | 2248.69 | 0.96 | ppb |
| Molybdenum | 95-1 | 1704.81 | 1734.45 | 1688.54 | 1709.27 | 1.36 | ppb |
| Molybdenum | 96-1 | 1735.36 | 1763.91 | 1749.65 | 1749.64 | 0.82 | ppb |
| Molybdenum | 97-1 | 1673.48 | 1645.22 | 1719.39 | 1679.36 | 2.23 | ppb |
| Molybdenum | 98-1 | 1688.57 | 1689.56 | 1722.81 | 1700.31 | 1.15 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 446.60 | 454.60 | 453.68 | 451.63 | 0.97 | ppb |
| Phosphorus | 31-2 | 158.43 | 154.47 | 182.22 | 165.04 | 9.09 | ppb |
| Potassium | 39-2 | 21523.28 | 22286.68 | 22515.56 | 22108.51 | 2.35 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 465.87 | 478.36 | 473.29 | 472.51 | 1.33 | ppb |
| Selenium | 77-2 | 423.12 | 505.67 | 482.32 | 470.37 | 9.05 | ppb |
| Selenium | 78-2 | 445.09 | 475.12 | 483.89 | 468.04 | 4.35 | ppb |
| Silicon | 28-1 | 3454.41 | 3626.65 | 3379.98 | 3487.01 | 3.63 | ppb |
| Silver | 107-1 | 84.11 | 85.21 | 84.39 | 84.57 | 0.67 | ppb |
| Silver | 109-1 | 82.53 | 82.87 | 84.51 | 83.30 | 1.28 | ppb |
| Sodium | 23-2 | 95388.33 | 99141.22 | 97837.28 | 97455.61 | 1.96 | ppb |
| Strontium | 86-1 | 643.15 | 652.24 | 650.43 | 648.61 | 0.74 | ppb |
| Strontium | 88-1 | 639.19 | 651.02 | 645.13 | 645.11 | 0.92 | ppb |
| Sulfur | 34-1 | 1283.02 | 1059.85 | 1024.29 | 1122.39 | 12.50 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 467.77 | 495.22 | 469.42 | 477.47 | 3.22 | ppb |
| Thallium | 205-1 | 468.91 | 492.82 | 476.39 | 479.37 | 2.55 | ppb |
| Tin | 118-1 | 434.66 | 435.60 | 443.29 | 437.85 | 1.08 | ppb |
| Titanium | 47-1 | 6.18 | 9.61 | 17.87 | 11.22 | 53.55 | ppb |
| Uranium | 238-1 | 460.74 | 472.72 | 461.70 | 465.05 | 1.43 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 478.13 | 483.76 | 489.74 | 483.88 | 1.20 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 4613.08 | 4713.91 | 4641.72 | 4656.24 | 1.12 | ppb |
| Zirconium | 90-1 | 467.52 | 482.65 | 466.07 | 472.08 | 1.95 | ppb |
| Zirconium | 91-1 | 463.70 | 480.09 | 468.77 | 470.85 | 1.78 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47425.44 | 47440.47 | 47362.97 | 47409.63 | 0.09 | ppb |
| Antimony | 121-1 | 504.51 | 507.10 | 498.68 | 503.43 | 0.86 | ppb |
| Arsenic | 75-2 | 490.81 | 492.55 | 489.45 | 490.94 | 0.32 | ppb |
| Barium | 135-1 | 2552.40 | 2523.32 | 2509.65 | 2528.46 | 0.86 | ppb |
| Barium | 137-1 | 2540.83 | 2557.43 | 2514.70 | 2537.66 | 0.85 | ppb |
| Beryllium | 9-1 | 486.55 | 495.57 | 495.99 | 492.70 | 1.08 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 501.03 | 510.36 | 501.38 | 504.25 | 1.05 | ppb |
| Cadmium | 106-1 | 508.81 | 513.58 | 495.97 | 506.12 | 1.80 | ppb |
| Cadmium | 111-1 | 502.04 | 500.54 | 483.51 | 495.36 | 2.08 | ppb |
| Calcium | 43-1 | 243790.43 | 240502.98 | 232950.45 | 239081.29 | 2.32 | ppb |
| Calcium | 44-1 | 239602.04 | 238081.01 | 227153.83 | 234945.62 | 2.89 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 491.89 | 484.90 | 498.29 | 491.69 | 1.36 | ppb |
| Cobalt | 59-2 | 485.76 | 476.50 | 491.79 | 484.68 | 1.59 | ppb |
| Copper | 63-2 | 4656.82 | 4628.25 | 4737.21 | 4674.09 | 1.21 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 118828.27 | 117733.40 | 121242.02 | 119267.90 | 1.51 | ppb |
| Iron | 56-2 | 117976.89 | 117550.80 | 119792.55 | 118440.08 | 1.01 | ppb |
| Iron | 57-2 | 118363.95 | 117405.29 | 120683.44 | 118817.56 | 1.42 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2600.90 | 2591.62 | 2560.29 | 2584.27 | 0.82 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2560.30 | 2596.43 | 2553.24 | 2569.99 | 0.90 | ppb |
| Lead | 208-1 | 2558.63 | 2590.71 | 2521.19 | 2556.84 | 1.36 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 239168.08 | 239045.26 | 237721.30 | 238644.88 | 0.34 | ppb |
| Manganese | 55-2 | 4764.98 | 4765.50 | 4934.21 | 4821.56 | 2.02 | ppb |
| Molybdenum | 94-1 | 5117.04 | 4992.53 | 4999.26 | 5036.28 | 1.39 | ppb |
| Molybdenum | 95-1 | 5103.95 | 5043.50 | 4983.96 | 5043.80 | 1.19 | ppb |
| Molybdenum | 96-1 | 4979.31 | 5022.16 | 4966.41 | 4989.29 | 0.58 | ppb |
| Molybdenum | 97-1 | 4912.00 | 5002.69 | 4986.30 | 4967.00 | 0.97 | ppb |
| Molybdenum | 98-1 | 5049.43 | 4941.97 | 4944.52 | 4978.64 | 1.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 450.14 | 445.85 | 456.13 | 450.71 | 1.15 | ppb |
| Phosphorus | 31-2 | 9674.87 | 9657.86 | 9642.00 | 9658.24 | 0.17 | ppb |
| Potassium | 39-2 | 119323.58 | 116829.43 | 118573.23 | 118242.08 | 1.08 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 483.28 | 477.73 | 472.48 | 477.83 | 1.13 | ppb |
| Selenium | 77-2 | 478.65 | 492.11 | 533.64 | 501.46 | 5.72 | ppb |
| Selenium | 78-2 | 475.89 | 482.78 | 481.75 | 480.14 | 0.77 | ppb |
| Silicon | 28-1 | 516.87 | 510.08 | 498.69 | 508.55 | 1.81 | ppb |
| Silver | 107-1 | 493.67 | 491.61 | 469.38 | 484.89 | 2.78 | ppb |
| Silver | 109-1 | 491.65 | 494.47 | 477.42 | 487.84 | 1.87 | ppb |
| Sodium | 23-2 | 241448.88 | 237853.82 | 239769.30 | 239690.67 | 0.75 | ppb |
| Strontium | 86-1 | 509.85 | 508.56 | 501.31 | 506.57 | 0.91 | ppb |
| Strontium | 88-1 | 495.25 | 511.27 | 495.31 | 500.61 | 1.84 | ppb |
| Sulfur | 34-1 | 10793.46 | 10677.61 | 10063.23 | 10511.43 | 3.73 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 527.58 | 524.10 | 522.40 | 524.69 | 0.50 | ppb |
| Thallium | 205-1 | 520.47 | 509.42 | 509.93 | 513.27 | 1.22 | ppb |
| Tin | 118-1 | 498.26 | 509.17 | 497.30 | 501.58 | 1.31 | ppb |
| Titanium | 47-1 | 5079.60 | 4950.82 | 4967.93 | 4999.45 | 1.40 | ppb |
| Uranium | 238-1 | 509.60 | 519.91 | 506.66 | 512.06 | 1.36 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 510.19 | 485.95 | 498.26 | 498.14 | 2.43 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 4728.00 | 4655.22 | 4766.34 | 4716.52 | 1.20 | ppb |
| Zirconium | 90-1 | 525.00 | 505.21 | 501.70 | 510.64 | 2.46 | ppb |
| Zirconium | 91-1 | 516.13 | 517.87 | 506.03 | 513.34 | 1.24 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.61 | 1.03 | 0.48 | 0.71 | 40.75 | ppb |
| Antimony | 121-1 | 0.08 | 0.07 | 0.07 | 0.07 | 6.79 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Barium | 135-1 | 0.06 | 0.03 | 0.04 | 0.04 | 37.58 | ppb |
| Barium | 137-1 | 0.06 | 0.04 | 0.03 | 0.04 | 38.36 | ppb |
| Beryllium | 9-1 | 0.30 | 0.26 | 0.24 | 0.27 | 11.72 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.00 | 0.02 | 0.01 | 105.13 | ppb |
| Cadmium | 106-1 | 0.33 | -0.04 | 0.44 | 0.24 | 104.03 | ppb |
| Cadmium | 111-1 | 0.05 | 0.02 | 0.06 | 0.04 | 47.27 | ppb |
| Calcium | 43-1 | 3.23 | 0.91 | 0.91 | 1.69 | 79.19 | ppb |
| Calcium | 44-1 | 7.21 | 2.00 | 2.35 | 3.85 | 75.71 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.15 | 0.15 | 0.13 | 0.15 | 6.39 | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.02 | 0.02 | 15.57 | ppb |
| Copper | 63-2 | 0.11 | 0.11 | 0.16 | 0.13 | 23.75 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 3.70 | 3.48 | 3.46 | 3.55 | 3.68 | ppb |
| Iron | 56-2 | 3.61 | 3.77 | 3.89 | 3.76 | 3.75 | ppb |
| Iron | 57-2 | 3.05 | 3.63 | 3.06 | 3.25 | 10.23 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.27 | 0.21 | 0.20 | 0.23 | 15.58 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.28 | 0.20 | 0.19 | 0.22 | 22.20 | ppb |
| Lead | 208-1 | 0.27 | 0.21 | 0.20 | 0.23 | 16.24 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | -1.56 | 0.12 | -1.02 | -0.82 | | ppb |
| Manganese | 55-2 | 0.19 | 0.20 | 0.18 | 0.19 | 4.87 | ppb |
| Molybdenum | 94-1 | 0.19 | 0.12 | 0.14 | 0.15 | 25.01 | ppb |
| Molybdenum | 95-1 | 0.14 | 0.10 | 0.09 | 0.11 | 22.76 | ppb |
| Molybdenum | 96-1 | 0.16 | 0.10 | 0.11 | 0.12 | 25.62 | ppb |
| Molybdenum | 97-1 | 0.16 | 0.09 | 0.09 | 0.11 | 34.74 | ppb |
| Molybdenum | 98-1 | 0.14 | 0.09 | 0.09 | 0.11 | 24.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.38 | 0.38 | 0.43 | 0.40 | 6.87 | ppb |
| Phosphorus | 31-2 | -22.22 | -28.47 | -30.96 | -27.22 | | ppb |
| Potassium | 39-2 | 39.03 | 36.64 | 36.22 | 37.30 | 4.06 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | -0.08 | -0.14 | -0.09 | -0.10 | | ppb |
| Selenium | 77-2 | 0.68 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.61 | -0.02 | -0.03 | -0.22 | | ppb |
| Silicon | 28-1 | 3.86 | -0.63 | -1.51 | 0.58 | 501.09 | ppb |
| Silver | 107-1 | 0.03 | 0.04 | 0.03 | 0.03 | 10.89 | ppb |
| Silver | 109-1 | 0.04 | 0.03 | 0.03 | 0.03 | 16.13 | ppb |
| Sodium | 23-2 | 53.06 | 50.06 | 47.74 | 50.29 | 5.30 | ppb |
| Strontium | 86-1 | 0.03 | 0.01 | 0.00 | 0.01 | 104.66 | ppb |
| Strontium | 88-1 | 0.02 | 0.01 | 0.01 | 0.02 | 29.87 | ppb |
| Sulfur | 34-1 | 855.32 | -103.74 | -307.81 | 147.92 | 419.86 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.09 | 0.07 | 0.07 | 0.08 | 13.29 | ppb |
| Thallium | 205-1 | 0.09 | 0.07 | 0.07 | 0.08 | 13.29 | ppb |
| Tin | 118-1 | 0.02 | 0.00 | 0.00 | 0.01 | 320.20 | ppb |
| Titanium | 47-1 | 0.10 | 0.04 | 0.07 | 0.07 | 40.52 | ppb |
| Uranium | 238-1 | 0.01 | 0.00 | 0.00 | 0.01 | 40.25 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 8.84 | 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 | 0.03 | -0.03 | -0.06 | -0.02 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.02 | 0.02 | 0.02 | 15.61 | ppb |
| Zirconium | 91-1 | 0.03 | 0.02 | 0.03 | 0.03 | 3.32 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.45 | 0.10 | 0.57 | 0.37 | 65.70 | ppb |
| Antimony | 121-1 | 0.02 | 0.03 | 0.02 | 0.02 | 4.11 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.01 | 0.01 | 51.65 | ppb |
| Barium | 137-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.67 | ppb |
| Beryllium | 9-1 | 0.16 | 0.17 | 0.16 | 0.16 | 4.40 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.00 | 0.01 | 0.02 | 84.04 | ppb |
| Cadmium | 106-1 | -0.73 | -0.71 | 0.42 | -0.34 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.05 | 0.04 | -0.02 | | ppb |
| Calcium | 43-1 | -1.19 | -0.78 | -1.35 | -1.10 | | ppb |
| Calcium | 44-1 | -1.75 | -2.05 | -2.10 | -1.96 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.19 | -0.17 | -0.16 | -0.17 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 34.90 | ppb |
| Copper | 63-2 | 0.00 | 0.02 | 0.00 | 0.00 | 213.41 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 0.66 | 0.77 | 1.07 | 0.83 | 25.12 | ppb |
| Iron | 56-2 | 1.06 | 1.26 | 1.05 | 1.12 | 10.40 | ppb |
| Iron | 57-2 | 0.75 | -0.05 | 0.23 | 0.31 | 132.19 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.16 | 0.13 | 0.13 | 0.14 | 11.19 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.15 | 0.14 | 0.14 | 0.14 | 3.44 | ppb |
| Lead | 208-1 | 0.15 | 0.14 | 0.14 | 0.14 | 4.34 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -3.48 | -2.72 | -3.67 | -3.29 | | ppb |
| Manganese | 55-2 | 0.06 | 0.08 | 0.07 | 0.07 | 18.60 | ppb |
| Molybdenum | 94-1 | 0.05 | 0.05 | 0.07 | 0.06 | 24.98 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.02 | ppb |
| Molybdenum | 96-1 | 0.03 | 0.03 | 0.03 | 0.03 | 8.64 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.02 | 0.03 | 0.03 | 10.18 | ppb |
| Molybdenum | 98-1 | 0.03 | 0.02 | 0.03 | 0.03 | 1.32 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.26 | 0.23 | 0.31 | 0.27 | 16.88 | ppb |
| Phosphorus | 31-2 | -34.59 | -30.41 | -26.27 | -30.42 | | ppb |
| Potassium | 39-2 | 28.86 | 30.08 | 32.06 | 30.33 | 5.33 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | -0.33 | -0.63 | -0.13 | -0.36 | | ppb |
| Selenium | 77-2 | 0.00 | 1.33 | 0.00 | 0.44 | 173.21 | ppb |
| Selenium | 78-2 | -0.81 | -0.43 | -0.23 | -0.49 | | ppb |
| Silicon | 28-1 | -2.29 | -3.03 | -3.26 | -2.86 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.02 | 0.01 | 14.79 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.41 | ppb |
| Sodium | 23-2 | 25.00 | 22.94 | 23.15 | 23.70 | 4.79 | ppb |
| Strontium | 86-1 | 0.00 | 0.00 | -0.01 | 0.00 | 887.85 | ppb |
| Strontium | 88-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.46 | ppb |
| Sulfur | 34-1 | -533.80 | -550.11 | -564.96 | -549.63 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.05 | 0.04 | 0.04 | 0.04 | 3.67 | ppb |
| Thallium | 205-1 | 0.05 | 0.05 | 0.04 | 0.05 | 13.77 | ppb |
| Tin | 118-1 | 0.00 | 0.01 | 0.02 | 0.01 | 74.01 | ppb |
| Titanium | 47-1 | 0.01 | 0.04 | 0.02 | 0.02 | 53.83 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 119.41 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.90 | 0.99 | 0.83 | 0.90 | 8.75 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.01 | 0.01 | 36.00 | ppb |
| Zirconium | 91-1 | 0.00 | 0.01 | 0.01 | 0.01 | 32.36 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9343.39 | 9349.93 | 9390.59 | 9361.30 | 0.27 | ppb |
| Antimony | 121-1 | 505.90 | 514.59 | 512.96 | 511.15 | 0.90 | ppb |
| Arsenic | 75-2 | 500.70 | 508.56 | 511.68 | 506.98 | 1.12 | ppb |
| Barium | 135-1 | 2522.05 | 2571.54 | 2591.43 | 2561.67 | 1.39 | ppb |
| Barium | 137-1 | 2513.96 | 2594.91 | 2594.98 | 2567.95 | 1.82 | ppb |
| Beryllium | 9-1 | 485.83 | 474.50 | 496.09 | 485.47 | 2.22 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 509.51 | 520.14 | 533.77 | 521.14 | 2.33 | ppb |
| Cadmium | 106-1 | 519.15 | 528.64 | 535.49 | 527.76 | 1.55 | ppb |
| Cadmium | 111-1 | 517.70 | 516.62 | 526.43 | 520.25 | 1.03 | ppb |
| Calcium | 43-1 | 49080.28 | 49878.02 | 48776.79 | 49245.03 | 1.16 | ppb |
| Calcium | 44-1 | 48191.71 | 49497.66 | 48900.88 | 48863.42 | 1.34 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 512.32 | 511.78 | 512.04 | 512.05 | 0.05 | ppb |
| Cobalt | 59-2 | 513.84 | 512.91 | 515.33 | 514.03 | 0.24 | ppb |
| Copper | 63-2 | 5062.32 | 4918.26 | 5008.29 | 4996.29 | 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 | | | | 104 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 24958.01 | 24934.38 | 25307.91 | 25066.77 | 0.83 | ppb |
| Iron | 56-2 | 24711.48 | 24865.49 | 24523.99 | 24700.32 | 0.69 | ppb |
| Iron | 57-2 | 25048.02 | 25454.77 | 24993.61 | 25165.47 | 1.00 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2522.96 | 2535.01 | 2555.67 | 2537.88 | 0.65 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2486.50 | 2507.33 | 2579.57 | 2524.47 | 1.93 | ppb |
| Lead | 208-1 | 2499.09 | 2510.58 | 2558.58 | 2522.75 | 1.25 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 50049.17 | 50080.81 | 50785.73 | 50305.23 | 0.83 | ppb |
| Manganese | 55-2 | 5006.02 | 5013.24 | 4996.92 | 5005.39 | 0.16 | ppb |
| Molybdenum | 94-1 | 5031.39 | 5056.85 | 5082.61 | 5056.95 | 0.51 | ppb |
| Molybdenum | 95-1 | 5017.93 | 5098.84 | 5065.34 | 5060.70 | 0.80 | ppb |
| Molybdenum | 96-1 | 5037.83 | 5069.59 | 5128.16 | 5078.53 | 0.90 | ppb |
| Molybdenum | 97-1 | 5061.27 | 5029.58 | 5089.55 | 5060.13 | 0.59 | ppb |
| Molybdenum | 98-1 | 5050.77 | 5027.20 | 5076.36 | 5051.44 | 0.49 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 479.48 | 477.63 | 482.04 | 479.72 | 0.46 | ppb |
| Phosphorus | 31-2 | 9678.38 | 9788.88 | 9840.47 | 9769.24 | 0.85 | ppb |
| Potassium | 39-2 | 24256.14 | 24168.33 | 24271.95 | 24232.14 | 0.23 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 498.62 | 514.12 | 495.09 | 502.61 | 2.01 | ppb |
| Selenium | 77-2 | 490.37 | 491.85 | 501.71 | 494.64 | 1.25 | ppb |
| Selenium | 78-2 | 493.34 | 496.37 | 495.76 | 495.16 | 0.32 | ppb |
| Silicon | 28-1 | 490.85 | 501.10 | 487.96 | 493.30 | 1.40 | ppb |
| Silver | 107-1 | 513.88 | 521.92 | 524.76 | 520.19 | 1.08 | ppb |
| Silver | 109-1 | 517.55 | 516.71 | 531.38 | 521.88 | 1.58 | ppb |
| Sodium | 23-2 | 50904.81 | 50531.36 | 50763.39 | 50733.19 | 0.37 | ppb |
| Strontium | 86-1 | 508.16 | 522.96 | 513.89 | 515.00 | 1.45 | ppb |
| Strontium | 88-1 | 501.69 | 515.82 | 511.72 | 509.74 | 1.43 | ppb |
| Sulfur | 34-1 | 9666.15 | 9980.83 | 9312.29 | 9653.09 | 3.46 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 508.06 | 503.13 | 510.76 | 507.32 | 0.76 | ppb |
| Thallium | 205-1 | 505.02 | 507.96 | 506.98 | 506.65 | 0.30 | ppb |
| Tin | 118-1 | 508.29 | 517.45 | 527.58 | 517.77 | 1.86 | ppb |
| Titanium | 47-1 | 5025.17 | 5139.04 | 5078.56 | 5080.92 | 1.12 | ppb |
| Uranium | 238-1 | 481.22 | 486.51 | 492.88 | 486.87 | 1.20 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 500.54 | 497.14 | 512.96 | 503.55 | 1.65 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 4914.98 | 4850.30 | 4951.77 | 4905.68 | 1.05 | ppb |
| Zirconium | 90-1 | 500.98 | 509.73 | 504.97 | 505.23 | 0.87 | ppb |
| Zirconium | 91-1 | 507.85 | 512.56 | 512.81 | 511.07 | 0.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20.07 | 17.84 | 18.28 | 18.73 | 6.32 | ppb |
| Antimony | 121-1 | 0.15 | 0.13 | 0.12 | 0.13 | 9.95 | ppb |
| Arsenic | 75-2 | 1.27 | 1.51 | 1.22 | 1.33 | 11.63 | ppb |
| Barium | 135-1 | 44.58 | 45.09 | 45.41 | 45.02 | 0.93 | ppb |
| Barium | 137-1 | 45.07 | 45.13 | 44.95 | 45.05 | 0.20 | ppb |
| Beryllium | 9-1 | 0.32 | 0.31 | 0.30 | 0.31 | 2.77 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.07 | 0.14 | 0.09 | 42.14 | ppb |
| Cadmium | 106-1 | -0.89 | -0.95 | 0.97 | -0.29 | | ppb |
| Cadmium | 111-1 | 0.04 | 0.03 | 0.16 | 0.07 | 97.68 | ppb |
| Calcium | 43-1 | 9891.83 | 9784.21 | 10036.76 | 9904.27 | 1.28 | ppb |
| Calcium | 44-1 | 10060.75 | 9967.18 | 9875.25 | 9967.73 | 0.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.11 | 0.14 | 0.13 | 0.13 | 13.31 | ppb |
| Cobalt | 59-2 | 5.97 | 5.98 | 5.93 | 5.96 | 0.48 | ppb |
| Copper | 63-2 | 0.66 | 0.69 | 0.67 | 0.67 | 2.24 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 7168.97 | 7136.30 | 7240.98 | 7182.08 | 0.75 | ppb |
| Iron | 56-2 | 7373.52 | 7368.50 | 7330.21 | 7357.41 | 0.32 | ppb |
| Iron | 57-2 | 7189.11 | 7142.62 | 7189.59 | 7173.77 | 0.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.34 | 0.33 | 0.31 | 0.33 | 5.13 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.36 | 0.34 | 0.32 | 0.34 | 6.57 | ppb |
| Lead | 208-1 | 0.35 | 0.33 | 0.31 | 0.33 | 6.74 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 8456.33 | 8336.92 | 8276.78 | 8356.68 | 1.09 | ppb |
| Manganese | 55-2 | 4123.19 | 4086.51 | 4105.19 | 4104.96 | 0.45 | ppb |
| Molybdenum | 94-1 | 0.33 | 0.27 | 0.23 | 0.28 | 17.47 | ppb |
| Molybdenum | 95-1 | 0.29 | 0.25 | 0.20 | 0.25 | 17.73 | ppb |
| Molybdenum | 96-1 | 0.30 | 0.26 | 0.22 | 0.26 | 14.27 | ppb |
| Molybdenum | 97-1 | 0.27 | 0.21 | 0.20 | 0.23 | 16.79 | ppb |
| Molybdenum | 98-1 | 0.27 | 0.25 | 0.20 | 0.24 | 15.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 18.99 | 18.70 | 19.03 | 18.91 | 0.94 | ppb |
| Phosphorus | 31-2 | -11.85 | -18.38 | -17.72 | -15.98 | | ppb |
| Potassium | 39-2 | 2217.09 | 2215.74 | 2237.66 | 2223.50 | 0.55 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.21 | 0.26 | -0.14 | 0.11 | 198.90 | ppb |
| Selenium | 77-2 | 0.63 | 0.00 | 1.99 | 0.87 | 116.27 | ppb |
| Selenium | 78-2 | -0.82 | 0.31 | 0.54 | 0.01 | 7255.74 | ppb |
| Silicon | 28-1 | 2096.03 | 2068.55 | 2032.64 | 2065.74 | 1.54 | ppb |
| Silver | 107-1 | 0.06 | 0.05 | 0.05 | 0.05 | 14.76 | ppb |
| Silver | 109-1 | 0.06 | 0.05 | 0.05 | 0.05 | 9.20 | ppb |
| Sodium | 23-2 | 3357.82 | 3370.67 | 3399.00 | 3375.83 | 0.62 | ppb |
| Strontium | 86-1 | 51.26 | 51.42 | 51.36 | 51.34 | 0.16 | ppb |
| Strontium | 88-1 | 52.94 | 53.16 | 53.41 | 53.17 | 0.44 | ppb |
| Sulfur | 34-1 | 3650.64 | 3340.62 | 3401.86 | 3464.37 | 4.74 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.07 | 0.07 | 0.07 | 0.07 | 5.84 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.06 | 0.07 | 9.47 | ppb |
| Tin | 118-1 | 0.16 | 0.17 | 0.17 | 0.17 | 2.64 | ppb |
| Titanium | 47-1 | 0.49 | 0.49 | 0.39 | 0.46 | 13.43 | ppb |
| Uranium | 238-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.36 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.27 | 0.27 | 0.29 | 0.28 | 3.25 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 11.77 | 11.90 | 11.23 | 11.63 | 3.06 | ppb |
| Zirconium | 90-1 | 0.04 | 0.03 | 0.04 | 0.04 | 9.44 | ppb |
| Zirconium | 91-1 | 0.03 | 0.04 | 0.04 | 0.04 | 8.49 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 16.58 | 18.33 | 15.53 | 16.81 | 8.43 | ppb |
| Antimony | 121-1 | 0.05 | 0.05 | 0.06 | 0.05 | 9.25 | ppb |
| Arsenic | 75-2 | 0.08 | 0.04 | 0.15 | 0.09 | 60.14 | ppb |
| Barium | 135-1 | 22.10 | 22.48 | 23.01 | 22.53 | 2.01 | ppb |
| Barium | 137-1 | 21.98 | 22.49 | 23.07 | 22.51 | 2.43 | ppb |
| Beryllium | 9-1 | 0.16 | 0.16 | 0.16 | 0.16 | 0.84 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.10 | 0.06 | 0.00 | 0.06 | 89.09 | ppb |
| Cadmium | 106-1 | -0.15 | -0.15 | -0.12 | -0.14 | | ppb |
| Cadmium | 111-1 | 0.00 | 0.01 | 0.01 | 0.01 | 69.66 | ppb |
| Calcium | 43-1 | 26808.26 | 27100.81 | 27416.30 | 27108.46 | 1.12 | ppb |
| Calcium | 44-1 | 25824.98 | 26754.52 | 27465.54 | 26681.68 | 3.08 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.22 | 0.21 | 0.25 | 0.23 | 9.76 | ppb |
| Cobalt | 59-2 | 1.98 | 2.06 | 1.99 | 2.01 | 2.06 | ppb |
| Copper | 63-2 | 0.39 | 0.40 | 0.43 | 0.41 | 5.09 | 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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 56.42 | 56.29 | 58.91 | 57.21 | 2.58 | ppb |
| Iron | 56-2 | 57.17 | 57.79 | 56.38 | 57.11 | 1.24 | ppb |
| Iron | 57-2 | 58.40 | 57.78 | 57.63 | 57.94 | 0.70 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.34 | 0.37 | 0.37 | 0.36 | 4.10 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.34 | 0.37 | 0.36 | 0.36 | 3.55 | ppb |
| Lead | 208-1 | 0.35 | 0.37 | 0.37 | 0.36 | 2.13 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 5669.56 | 5481.37 | 5597.42 | 5582.78 | 1.70 | ppb |
| Manganese | 55-2 | 295.62 | 295.84 | 294.28 | 295.24 | 0.29 | ppb |
| Molybdenum | 94-1 | 0.14 | 0.14 | 0.14 | 0.14 | 2.33 | ppb |
| Molybdenum | 95-1 | 0.09 | 0.08 | 0.09 | 0.09 | 1.84 | ppb |
| Molybdenum | 96-1 | 0.08 | 0.09 | 0.11 | 0.09 | 13.40 | ppb |
| Molybdenum | 97-1 | 0.10 | 0.09 | 0.09 | 0.09 | 4.98 | ppb |
| Molybdenum | 98-1 | 0.09 | 0.08 | 0.07 | 0.08 | 10.99 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.04 | 1.19 | 1.11 | 1.11 | 6.42 | ppb |
| Phosphorus | 31-2 | -23.93 | -15.69 | -20.71 | -20.11 | | ppb |
| Potassium | 39-2 | 2744.49 | 2702.50 | 2682.93 | 2709.97 | 1.16 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 2.18 | 2.21 | 2.93 | 2.44 | 17.43 | ppb |
| Selenium | 77-2 | 2.65 | 6.59 | 3.33 | 4.19 | 50.26 | ppb |
| Selenium | 78-2 | 2.27 | 3.02 | 1.90 | 2.39 | 23.84 | ppb |
| Silicon | 28-1 | 3487.95 | 3627.83 | 3698.87 | 3604.89 | 2.98 | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.02 | 0.01 | 15.94 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.02 | 0.01 | 10.43 | ppb |
| Sodium | 23-2 | 10224.65 | 10158.04 | 10161.44 | 10181.38 | 0.37 | ppb |
| Strontium | 86-1 | 84.08 | 87.08 | 87.50 | 86.22 | 2.16 | ppb |
| Strontium | 88-1 | 86.86 | 89.53 | 89.04 | 88.48 | 1.61 | ppb |
| Sulfur | 34-1 | 7776.46 | 8145.12 | 8317.87 | 8079.82 | 3.42 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.05 | 0.06 | 0.05 | 0.06 | 8.37 | ppb |
| Thallium | 205-1 | 0.06 | 0.06 | 0.06 | 0.06 | 2.52 | ppb |
| Tin | 118-1 | 0.63 | 0.64 | 0.69 | 0.65 | 4.87 | ppb |
| Titanium | 47-1 | 0.63 | 0.68 | 0.70 | 0.67 | 5.24 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.14 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.07 | 0.07 | 0.08 | 0.07 | 7.36 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 4.61 | 4.42 | 4.91 | 4.64 | 5.32 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.23 | ppb |
| Zirconium | 91-1 | 0.04 | 0.11 | 0.03 | 0.06 | 64.23 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 183.53 | 183.90 | 190.52 | 185.98 | 2.12 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.05 | 0.06 | 3.42 | ppb |
| Arsenic | 75-2 | 4.57 | 4.36 | 4.61 | 4.51 | 2.95 | ppb |
| Barium | 135-1 | 39.56 | 40.77 | 39.37 | 39.90 | 1.91 | ppb |
| Barium | 137-1 | 41.31 | 41.30 | 39.57 | 40.73 | 2.46 | ppb |
| Beryllium | 9-1 | 0.16 | 0.16 | 0.15 | 0.16 | 4.27 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.08 | 0.10 | 0.10 | 0.09 | 11.40 | ppb |
| Cadmium | 106-1 | 1.11 | 1.09 | 0.15 | 0.78 | 70.12 | ppb |
| Cadmium | 111-1 | 0.09 | 0.09 | 0.02 | 0.07 | 65.50 | ppb |
| Calcium | 43-1 | 13477.31 | 13321.00 | 13332.12 | 13376.81 | 0.65 | ppb |
| Calcium | 44-1 | 13561.06 | 13301.02 | 13088.69 | 13316.92 | 1.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.23 | 1.15 | 1.20 | 1.19 | 3.55 | ppb |
| Cobalt | 59-2 | 7.26 | 7.09 | 7.30 | 7.22 | 1.59 | ppb |
| Copper | 63-2 | 0.78 | 0.87 | 0.83 | 0.83 | 5.71 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 36070.37 | 35931.96 | 36988.82 | 36330.38 | 1.58 | ppb |
| Iron | 56-2 | 36450.07 | 36230.20 | 36381.16 | 36353.81 | 0.31 | ppb |
| Iron | 57-2 | 37681.73 | 37145.85 | 36430.73 | 37086.10 | 1.69 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.33 | 0.32 | 0.33 | 0.33 | 1.96 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.37 | 0.36 | 0.33 | 0.35 | 5.94 | ppb |
| Lead | 208-1 | 0.35 | 0.34 | 0.33 | 0.34 | 2.39 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 2892.19 | 2835.59 | 2884.41 | 2870.73 | 1.07 | ppb |
| Manganese | 55-2 | 1061.42 | 1074.75 | 1109.18 | 1081.79 | 2.28 | ppb |
| Molybdenum | 94-1 | 0.85 | 0.85 | 0.89 | 0.86 | 2.47 | ppb |
| Molybdenum | 95-1 | 0.29 | 0.32 | 0.29 | 0.30 | 4.92 | ppb |
| Molybdenum | 96-1 | 0.38 | 0.38 | 0.39 | 0.38 | 2.19 | ppb |
| Molybdenum | 97-1 | 0.30 | 0.29 | 0.29 | 0.29 | 1.62 | ppb |
| Molybdenum | 98-1 | 0.30 | 0.30 | 0.29 | 0.29 | 2.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.09 | 1.97 | 1.92 | 1.99 | 4.32 | ppb |
| Phosphorus | 31-2 | -4.44 | -9.14 | 4.18 | -3.13 | | ppb |
| Potassium | 39-2 | 2492.18 | 2500.84 | 2525.45 | 2506.16 | 0.69 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.28 | 0.15 | 0.08 | 0.17 | 60.36 | ppb |
| Selenium | 77-2 | 1.31 | 2.58 | 0.66 | 1.52 | 64.26 | ppb |
| Selenium | 78-2 | -0.05 | -0.25 | 0.54 | 0.08 | 530.21 | ppb |
| Silicon | 28-1 | 2260.08 | 2250.08 | 2319.97 | 2276.71 | 1.66 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.29 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.04 | ppb |
| Sodium | 23-2 | 1753.14 | 1728.57 | 1700.90 | 1727.54 | 1.51 | ppb |
| Strontium | 86-1 | 51.96 | 53.07 | 52.53 | 52.52 | 1.05 | ppb |
| Strontium | 88-1 | 55.46 | 54.40 | 55.40 | 55.09 | 1.08 | ppb |
| Sulfur | 34-1 | 11177.27 | 11109.80 | 11460.76 | 11249.27 | 1.66 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 8.07 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 1.09 | ppb |
| Tin | 118-1 | 0.24 | 0.23 | 0.25 | 0.24 | 4.01 | ppb |
| Titanium | 47-1 | 4.36 | 4.92 | 4.76 | 4.68 | 6.25 | ppb |
| Uranium | 238-1 | 0.10 | 0.10 | 0.10 | 0.10 | 1.88 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.01 | 2.97 | 2.99 | 2.99 | 0.69 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 3.96 | 4.03 | 4.11 | 4.04 | 1.83 | ppb |
| Zirconium | 90-1 | 0.32 | 0.31 | 0.32 | 0.32 | 2.17 | ppb |
| Zirconium | 91-1 | 0.34 | 0.37 | 0.33 | 0.35 | 6.78 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 534.19 | 548.27 | 535.58 | 539.35 | 1.44 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.06 | 0.06 | 6.68 | ppb |
| Arsenic | 75-2 | 4.87 | 4.57 | 4.93 | 4.79 | 4.02 | ppb |
| Barium | 135-1 | 38.91 | 42.23 | 41.53 | 40.89 | 4.28 | ppb |
| Barium | 137-1 | 39.42 | 42.10 | 42.36 | 41.29 | 3.95 | ppb |
| Beryllium | 9-1 | 0.15 | 0.14 | 0.15 | 0.15 | 1.15 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.09 | 0.26 | 0.56 | 0.31 | 77.89 | ppb |
| Cadmium | 106-1 | 0.59 | 0.79 | 1.19 | 0.86 | 35.49 | ppb |
| Cadmium | 111-1 | 0.05 | 0.05 | 0.07 | 0.06 | 21.44 | ppb |
| Calcium | 43-1 | 12800.74 | 13006.49 | 13431.32 | 13079.51 | 2.46 | ppb |
| Calcium | 44-1 | 12912.39 | 13152.18 | 13468.53 | 13177.70 | 2.12 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.63 | 1.57 | 1.54 | 1.58 | 2.92 | ppb |
| Cobalt | 59-2 | 7.47 | 7.42 | 7.30 | 7.40 | 1.18 | ppb |
| Copper | 63-2 | 0.96 | 1.08 | 0.95 | 1.00 | 7.47 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 37817.01 | 37588.45 | 37145.86 | 37517.11 | 0.91 | ppb |
| Iron | 56-2 | 38195.77 | 36940.54 | 36566.95 | 37234.42 | 2.29 | ppb |
| Iron | 57-2 | 38172.39 | 37525.96 | 37758.27 | 37818.87 | 0.87 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.37 | 0.36 | 0.38 | 0.37 | 3.61 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.34 | 0.34 | 0.35 | 0.35 | 1.89 | ppb |
| Lead | 208-1 | 0.38 | 0.37 | 0.38 | 0.38 | 0.84 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 2981.88 | 2930.52 | 2905.49 | 2939.30 | 1.32 | ppb |
| Manganese | 55-2 | 1124.41 | 1090.19 | 1057.34 | 1090.64 | 3.08 | ppb |
| Molybdenum | 94-1 | 1.16 | 2.82 | 1.21 | 1.73 | 54.60 | ppb |
| Molybdenum | 95-1 | 0.28 | 0.29 | 0.29 | 0.29 | 1.89 | ppb |
| Molybdenum | 96-1 | 0.48 | 0.42 | 0.61 | 0.50 | 19.08 | ppb |
| Molybdenum | 97-1 | 0.27 | 0.28 | 0.33 | 0.29 | 10.34 | ppb |
| Molybdenum | 98-1 | 0.27 | 0.27 | 0.27 | 0.27 | 0.59 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.24 | 2.26 | 2.40 | 2.30 | 3.71 | ppb |
| Phosphorus | 31-2 | 4.59 | -2.71 | -1.16 | 0.24 | 1606.82 | ppb |
| Potassium | 39-2 | 2596.23 | 2552.43 | 2589.09 | 2579.25 | 0.91 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.00 | 0.22 | 0.22 | 0.15 | 85.64 | ppb |
| Selenium | 77-2 | 2.61 | 1.98 | 5.29 | 3.29 | 53.45 | ppb |
| Selenium | 78-2 | -0.44 | 0.33 | 0.15 | 0.01 | 2806.73 | ppb |
| Silicon | 28-1 | 2601.46 | 2608.97 | 2756.57 | 2655.67 | 3.29 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.61 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.00 | 0.01 | 19.47 | ppb |
| Sodium | 23-2 | 1797.63 | 1765.79 | 1773.71 | 1779.05 | 0.93 | ppb |
| Strontium | 86-1 | 49.75 | 52.28 | 53.15 | 51.72 | 3.42 | ppb |
| Strontium | 88-1 | 52.57 | 54.67 | 54.51 | 53.92 | 2.16 | ppb |
| Sulfur | 34-1 | 10671.32 | 10511.86 | 11136.44 | 10773.21 | 3.01 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.03 | 0.02 | 12.18 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.46 | ppb |
| Tin | 118-1 | 0.24 | 0.25 | 0.27 | 0.25 | 6.93 | ppb |
| Titanium | 47-1 | 23.39 | 24.79 | 26.34 | 24.84 | 5.95 | ppb |
| Uranium | 238-1 | 0.10 | 0.11 | 0.12 | 0.11 | 8.78 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.58 | 3.54 | 3.34 | 3.49 | 3.57 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 4.21 | 4.31 | 4.32 | 4.28 | 1.43 | ppb |
| Zirconium | 90-1 | 0.74 | 0.63 | 0.70 | 0.69 | 8.64 | ppb |
| Zirconium | 91-1 | 0.61 | 0.85 | 1.08 | 0.85 | 28.07 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 55.06 | 46.44 | 45.23 | 48.91 | 10.96 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.17 | ppb |
| Arsenic | 75-2 | 0.92 | 1.05 | 0.87 | 0.94 | 9.90 | ppb |
| Barium | 135-1 | 7.78 | 8.00 | 8.11 | 7.96 | 2.11 | ppb |
| Barium | 137-1 | 7.76 | 8.25 | 7.94 | 7.98 | 3.06 | ppb |
| Beryllium | 9-1 | 0.10 | 0.11 | 0.10 | 0.10 | 3.81 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.00 | 0.03 | 0.04 | 91.01 | ppb |
| Cadmium | 106-1 | -0.37 | 0.65 | 0.43 | 0.24 | 228.41 | ppb |
| Cadmium | 111-1 | -0.03 | 0.06 | 0.04 | 0.02 | 203.16 | ppb |
| Calcium | 43-1 | 2536.84 | 2660.00 | 2608.86 | 2601.90 | 2.38 | ppb |
| Calcium | 44-1 | 2593.81 | 2723.09 | 2641.14 | 2652.68 | 2.47 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.30 | 0.29 | 0.38 | 0.32 | 15.74 | ppb |
| Cobalt | 59-2 | 1.44 | 1.50 | 1.46 | 1.47 | 1.98 | ppb |
| Copper | 63-2 | 0.18 | 0.17 | 0.13 | 0.16 | 15.88 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 7237.50 | 7245.97 | 7247.37 | 7243.61 | 0.07 | ppb |
| Iron | 56-2 | 7580.64 | 7508.49 | 7473.68 | 7520.94 | 0.73 | ppb |
| Iron | 57-2 | 7186.70 | 7251.27 | 7242.44 | 7226.80 | 0.48 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.12 | 0.11 | 0.12 | 4.98 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.11 | 0.12 | 0.12 | 0.12 | 7.17 | ppb |
| Lead | 208-1 | 0.12 | 0.12 | 0.12 | 0.12 | 3.68 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 587.87 | 581.17 | 584.22 | 584.42 | 0.57 | ppb |
| Manganese | 55-2 | 208.90 | 212.10 | 208.42 | 209.81 | 0.95 | ppb |
| Molybdenum | 94-1 | 0.18 | 0.24 | 0.20 | 0.20 | 15.07 | ppb |
| Molybdenum | 95-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.42 | ppb |
| Molybdenum | 96-1 | 0.09 | 0.09 | 0.08 | 0.09 | 8.42 | ppb |
| Molybdenum | 97-1 | 0.07 | 0.07 | 0.06 | 0.07 | 7.24 | ppb |
| Molybdenum | 98-1 | 0.07 | 0.07 | 0.07 | 0.07 | 4.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.86 | 0.80 | 0.82 | 0.82 | 3.86 | ppb |
| Phosphorus | 31-2 | -27.90 | -17.35 | -23.20 | -22.82 | | ppb |
| Potassium | 39-2 | 537.14 | 539.85 | 540.24 | 539.07 | 0.31 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | -0.21 | -0.38 | -0.10 | -0.23 | | ppb |
| Selenium | 77-2 | 0.68 | 0.66 | 1.34 | 0.89 | 43.43 | ppb |
| Selenium | 78-2 | -0.41 | -0.24 | 0.35 | -0.10 | | ppb |
| Silicon | 28-1 | 447.43 | 464.09 | 455.19 | 455.57 | 1.83 | ppb |
| Silver | 107-1 | 0.00 | 0.01 | 0.01 | 0.01 | 20.77 | ppb |
| Silver | 109-1 | 0.00 | 0.01 | 0.00 | 0.00 | 74.73 | ppb |
| Sodium | 23-2 | 374.27 | 369.98 | 371.21 | 371.82 | 0.60 | ppb |
| Strontium | 86-1 | 10.03 | 10.50 | 10.19 | 10.24 | 2.34 | ppb |
| Strontium | 88-1 | 10.07 | 10.55 | 10.26 | 10.29 | 2.37 | ppb |
| Sulfur | 34-1 | 2239.93 | 2729.49 | 2161.46 | 2376.96 | 12.95 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.02 | 0.02 | 0.02 | 24.66 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.28 | ppb |
| Tin | 118-1 | 0.02 | 0.05 | 0.03 | 0.03 | 52.36 | ppb |
| Titanium | 47-1 | 0.96 | 1.26 | 1.03 | 1.09 | 14.37 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 3.55 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.65 | 0.59 | 0.56 | 0.60 | 7.65 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.86 | 0.94 | 0.83 | 0.88 | 6.30 | ppb |
| Zirconium | 90-1 | 0.06 | 0.07 | 0.07 | 0.07 | 5.49 | ppb |
| Zirconium | 91-1 | 0.07 | 0.08 | 0.36 | 0.17 | 98.50 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8538.73 | 8479.39 | 7703.41 | 8240.51 | 5.66 | ppb |
| Antimony | 121-1 | 487.15 | 494.78 | 493.68 | 491.87 | 0.84 | ppb |
| Arsenic | 75-2 | 4.45 | 4.21 | 4.20 | 4.29 | 3.34 | ppb |
| Barium | 135-1 | 2213.14 | 2231.46 | 2222.58 | 2222.39 | 0.41 | ppb |
| Barium | 137-1 | 2167.79 | 2251.73 | 2219.71 | 2213.08 | 1.91 | ppb |
| Beryllium | 9-1 | 448.44 | 470.21 | 471.38 | 463.35 | 2.79 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 447.37 | 459.50 | 455.43 | 454.10 | 1.36 | ppb |
| Cadmium | 106-1 | 479.17 | 493.99 | 494.05 | 489.07 | 1.75 | ppb |
| Cadmium | 111-1 | 480.06 | 488.29 | 482.37 | 483.57 | 0.88 | ppb |
| Calcium | 43-1 | 57049.76 | 56990.65 | 57705.52 | 57248.64 | 0.69 | ppb |
| Calcium | 44-1 | 55496.74 | 55440.86 | 56683.83 | 55873.81 | 1.26 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 472.88 | 480.84 | 430.37 | 461.36 | 5.88 | ppb |
| Cobalt | 59-2 | 496.03 | 498.71 | 448.69 | 481.14 | 5.85 | ppb |
| Copper | 63-2 | 4763.28 | 4725.27 | 4385.94 | 4624.83 | 4.49 | 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 | | | | 106 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 55823.92 | 56182.04 | 51095.57 | 54367.17 | 5.22 | ppb |
| Iron | 56-2 | 56093.96 | 55848.80 | 50384.04 | 54108.93 | 5.97 | ppb |
| Iron | 57-2 | 55368.33 | 55599.70 | 50833.21 | 53933.75 | 4.98 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2340.25 | 2348.79 | 2392.90 | 2360.65 | 1.20 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2330.60 | 2380.26 | 2407.75 | 2372.87 | 1.65 | ppb |
| Lead | 208-1 | 2308.65 | 2362.41 | 2402.57 | 2357.88 | 2.00 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 48932.09 | 48310.35 | 44576.23 | 47272.89 | 4.98 | ppb |
| Manganese | 55-2 | 5721.05 | 5732.40 | 5223.46 | 5558.97 | 5.23 | ppb |
| Molybdenum | 94-1 | 2169.83 | 2245.73 | 2248.01 | 2221.19 | 2.00 | ppb |
| Molybdenum | 95-1 | 1686.84 | 1681.22 | 1728.66 | 1698.91 | 1.53 | ppb |
| Molybdenum | 96-1 | 1714.21 | 1744.50 | 1772.35 | 1743.68 | 1.67 | ppb |
| Molybdenum | 97-1 | 1666.30 | 1702.33 | 1721.35 | 1696.66 | 1.65 | ppb |
| Molybdenum | 98-1 | 1652.17 | 1712.48 | 1720.93 | 1695.19 | 2.21 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 456.74 | 462.20 | 420.45 | 446.46 | 5.08 | ppb |
| Phosphorus | 31-2 | 6.36 | 1.44 | -7.01 | 0.27 | 2546.23 | ppb |
| Potassium | 39-2 | 23273.01 | 23074.11 | 21531.21 | 22626.11 | 4.21 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 456.26 | 470.79 | 478.73 | 468.60 | 2.43 | ppb |
| Selenium | 77-2 | 511.49 | 474.07 | 449.09 | 478.22 | 6.57 | ppb |
| Selenium | 78-2 | 485.57 | 452.10 | 428.36 | 455.34 | 6.31 | ppb |
| Silicon | 28-1 | 2048.81 | 2046.49 | 2105.05 | 2066.79 | 1.60 | ppb |
| Silver | 107-1 | 83.97 | 86.41 | 87.57 | 85.98 | 2.14 | ppb |
| Silver | 109-1 | 84.58 | 86.38 | 85.20 | 85.39 | 1.07 | ppb |
| Sodium | 23-2 | 47942.54 | 47911.95 | 43671.78 | 46508.76 | 5.28 | ppb |
| Strontium | 86-1 | 600.01 | 621.00 | 618.52 | 613.18 | 1.87 | ppb |
| Strontium | 88-1 | 587.20 | 606.91 | 617.76 | 603.96 | 2.57 | ppb |
| Sulfur | 34-1 | 10117.38 | 10048.37 | 10236.62 | 10134.12 | 0.94 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 462.29 | 463.18 | 469.09 | 464.85 | 0.80 | ppb |
| Thallium | 205-1 | 457.00 | 464.86 | 470.32 | 464.06 | 1.44 | ppb |
| Tin | 118-1 | 444.30 | 453.51 | 453.43 | 450.41 | 1.18 | ppb |
| Titanium | 47-1 | 5.76 | 5.72 | 5.44 | 5.64 | 3.05 | ppb |
| Uranium | 238-1 | 434.47 | 451.59 | 464.09 | 450.05 | 3.30 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 495.15 | 493.44 | 453.35 | 480.64 | 4.92 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 4775.58 | 4755.36 | 4299.31 | 4610.08 | 5.84 | ppb |
| Zirconium | 90-1 | 453.92 | 468.77 | 469.90 | 464.19 | 1.92 | ppb |
| Zirconium | 91-1 | 464.29 | 470.81 | 466.71 | 467.27 | 0.71 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8432.56 | 8510.12 | 8349.56 | 8430.75 | 0.95 | ppb |
| Antimony | 121-1 | 500.33 | 502.67 | 495.95 | 499.65 | 0.68 | ppb |
| Arsenic | 75-2 | 4.29 | 4.30 | 4.86 | 4.48 | 7.21 | ppb |
| Barium | 135-1 | 2236.34 | 2266.31 | 2215.25 | 2239.30 | 1.15 | ppb |
| Barium | 137-1 | 2226.10 | 2272.64 | 2203.70 | 2234.14 | 1.57 | ppb |
| Beryllium | 9-1 | 465.96 | 475.38 | 459.86 | 467.07 | 1.67 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 466.42 | 464.93 | 462.57 | 464.64 | 0.42 | ppb |
| Cadmium | 106-1 | 495.79 | 497.48 | 498.99 | 497.42 | 0.32 | ppb |
| Cadmium | 111-1 | 498.48 | 498.95 | 492.65 | 496.70 | 0.71 | ppb |
| Calcium | 43-1 | 56228.54 | 57532.96 | 56533.25 | 56764.92 | 1.20 | ppb |
| Calcium | 44-1 | 55898.79 | 56391.12 | 55646.69 | 55978.87 | 0.68 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 471.06 | 486.07 | 480.61 | 479.25 | 1.58 | ppb |
| Cobalt | 59-2 | 488.90 | 498.00 | 486.45 | 491.12 | 1.24 | ppb |
| Copper | 63-2 | 4752.25 | 4739.14 | 4733.76 | 4741.72 | 0.20 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 54471.49 | 55363.53 | 54663.28 | 54832.76 | 0.86 | ppb |
| Iron | 56-2 | 54522.54 | 55428.97 | 54212.41 | 54721.31 | 1.16 | ppb |
| Iron | 57-2 | 54419.06 | 54320.59 | 54060.74 | 54266.80 | 0.34 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2402.80 | 2408.55 | 2390.64 | 2400.66 | 0.38 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2397.03 | 2428.66 | 2399.44 | 2408.37 | 0.73 | ppb |
| Lead | 208-1 | 2381.02 | 2417.56 | 2382.37 | 2393.65 | 0.87 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 47710.97 | 49551.98 | 47134.68 | 48132.54 | 2.62 | ppb |
| Manganese | 55-2 | 5654.66 | 5776.40 | 5648.44 | 5693.17 | 1.27 | ppb |
| Molybdenum | 94-1 | 2266.07 | 2252.27 | 2230.28 | 2249.54 | 0.80 | ppb |
| Molybdenum | 95-1 | 1751.03 | 1709.20 | 1690.26 | 1716.83 | 1.81 | ppb |
| Molybdenum | 96-1 | 1790.45 | 1762.74 | 1738.85 | 1764.01 | 1.46 | ppb |
| Molybdenum | 97-1 | 1697.96 | 1694.31 | 1692.91 | 1695.06 | 0.15 | ppb |
| Molybdenum | 98-1 | 1712.43 | 1694.49 | 1697.15 | 1701.36 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 456.11 | 460.29 | 454.71 | 457.04 | 0.64 | ppb |
| Phosphorus | 31-2 | -5.22 | -9.63 | -11.83 | -8.89 | | ppb |
| Potassium | 39-2 | 22755.76 | 23417.20 | 22815.81 | 22996.26 | 1.59 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 482.01 | 483.93 | 477.87 | 481.27 | 0.64 | ppb |
| Selenium | 77-2 | 451.64 | 475.75 | 450.19 | 459.19 | 3.13 | ppb |
| Selenium | 78-2 | 465.19 | 456.72 | 463.58 | 461.83 | 0.97 | ppb |
| Silicon | 28-1 | 2046.51 | 2118.52 | 2069.61 | 2078.21 | 1.77 | ppb |
| Silver | 107-1 | 88.58 | 86.13 | 86.87 | 87.19 | 1.44 | ppb |
| Silver | 109-1 | 88.15 | 87.34 | 86.34 | 87.28 | 1.03 | ppb |
| Sodium | 23-2 | 46276.70 | 48689.49 | 47586.54 | 47517.58 | 2.54 | ppb |
| Strontium | 86-1 | 626.99 | 632.00 | 625.77 | 628.25 | 0.53 | ppb |
| Strontium | 88-1 | 614.28 | 625.76 | 618.06 | 619.37 | 0.94 | ppb |
| Sulfur | 34-1 | 9494.01 | 10010.05 | 9603.93 | 9702.66 | 2.80 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 478.22 | 479.19 | 473.96 | 477.12 | 0.58 | ppb |
| Thallium | 205-1 | 476.22 | 478.60 | 480.14 | 478.32 | 0.41 | ppb |
| Tin | 118-1 | 450.12 | 453.43 | 446.98 | 450.18 | 0.72 | ppb |
| Titanium | 47-1 | 5.66 | 7.24 | 7.53 | 6.81 | 14.73 | ppb |
| Uranium | 238-1 | 452.26 | 462.44 | 451.62 | 455.44 | 1.33 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 480.08 | 499.66 | 490.38 | 490.04 | 2.00 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 4689.45 | 4766.40 | 4615.27 | 4690.37 | 1.61 | ppb |
| Zirconium | 90-1 | 472.08 | 467.68 | 464.38 | 468.05 | 0.83 | ppb |
| Zirconium | 91-1 | 491.50 | 477.50 | 468.93 | 479.31 | 2.38 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8662.31 | 8909.97 | 8717.86 | 8763.38 | 1.48 | ppb |
| Antimony | 121-1 | 482.75 | 493.91 | 510.97 | 495.88 | 2.87 | ppb |
| Arsenic | 75-2 | 4.13 | 4.20 | 4.35 | 4.23 | 2.65 | ppb |
| Barium | 135-1 | 2154.65 | 2213.85 | 2277.29 | 2215.27 | 2.77 | ppb |
| Barium | 137-1 | 2177.93 | 2228.50 | 2271.42 | 2225.95 | 2.10 | ppb |
| Beryllium | 9-1 | 452.77 | 468.07 | 475.10 | 465.31 | 2.45 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 448.65 | 458.07 | 477.34 | 461.36 | 3.17 | ppb |
| Cadmium | 106-1 | 481.29 | 491.05 | 510.98 | 494.44 | 3.06 | ppb |
| Cadmium | 111-1 | 485.04 | 489.55 | 500.66 | 491.75 | 1.63 | ppb |
| Calcium | 43-1 | 55335.29 | 57986.90 | 58925.03 | 57415.74 | 3.24 | ppb |
| Calcium | 44-1 | 55158.13 | 57273.41 | 57181.22 | 56537.58 | 2.11 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 485.89 | 482.12 | 471.32 | 479.78 | 1.58 | ppb |
| Cobalt | 59-2 | 486.83 | 496.27 | 479.98 | 487.69 | 1.68 | ppb |
| Copper | 63-2 | 4713.09 | 4774.72 | 4662.33 | 4716.71 | 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 | | | | 106 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 53187.55 | 55347.98 | 54125.62 | 54220.38 | 2.00 | ppb |
| Iron | 56-2 | 54176.59 | 54590.45 | 53860.61 | 54209.22 | 0.68 | ppb |
| Iron | 57-2 | 54528.21 | 54857.06 | 54283.80 | 54556.36 | 0.53 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2356.58 | 2444.48 | 2454.43 | 2418.50 | 2.23 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2346.90 | 2465.89 | 2450.31 | 2421.03 | 2.67 | ppb |
| Lead | 208-1 | 2331.74 | 2436.16 | 2416.88 | 2394.93 | 2.32 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 48085.67 | 50017.79 | 48073.78 | 48725.75 | 2.30 | ppb |
| Manganese | 55-2 | 5613.65 | 5774.72 | 5683.60 | 5690.66 | 1.42 | ppb |
| Molybdenum | 94-1 | 2160.36 | 2272.72 | 2302.50 | 2245.20 | 3.34 | ppb |
| Molybdenum | 95-1 | 1645.48 | 1739.45 | 1756.90 | 1713.94 | 3.50 | ppb |
| Molybdenum | 96-1 | 1695.42 | 1809.01 | 1816.99 | 1773.81 | 3.83 | ppb |
| Molybdenum | 97-1 | 1680.56 | 1747.39 | 1760.11 | 1729.35 | 2.47 | ppb |
| Molybdenum | 98-1 | 1659.39 | 1725.65 | 1769.59 | 1718.21 | 3.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 454.98 | 463.20 | 453.93 | 457.37 | 1.11 | ppb |
| Phosphorus | 31-2 | -15.64 | -7.30 | -7.27 | -10.07 | | ppb |
| Potassium | 39-2 | 22854.55 | 23440.68 | 22880.71 | 23058.65 | 1.44 | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 457.65 | 487.12 | 495.42 | 480.06 | 4.13 | ppb |
| Selenium | 77-2 | 464.92 | 496.22 | 499.54 | 486.89 | 3.92 | ppb |
| Selenium | 78-2 | 463.41 | 479.71 | 465.66 | 469.59 | 1.88 | ppb |
| Silicon | 28-1 | 2297.41 | 2382.09 | 2495.84 | 2391.78 | 4.16 | ppb |
| Silver | 107-1 | 85.04 | 85.79 | 90.24 | 87.02 | 3.23 | ppb |
| Silver | 109-1 | 84.56 | 87.67 | 89.38 | 87.20 | 2.80 | ppb |
| Sodium | 23-2 | 47096.58 | 48725.79 | 47303.73 | 47708.70 | 1.86 | ppb |
| Strontium | 86-1 | 595.78 | 625.15 | 634.65 | 618.52 | 3.28 | ppb |
| Strontium | 88-1 | 600.74 | 625.22 | 622.61 | 616.19 | 2.18 | ppb |
| Sulfur | 34-1 | 9218.85 | 9754.87 | 9852.94 | 9608.89 | 3.55 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 468.08 | 486.37 | 488.40 | 480.95 | 2.33 | ppb |
| Thallium | 205-1 | 467.34 | 484.33 | 485.26 | 478.98 | 2.11 | ppb |
| Tin | 118-1 | 435.56 | 448.33 | 464.10 | 449.33 | 3.18 | ppb |
| Titanium | 47-1 | 16.20 | 17.23 | 13.64 | 15.69 | 11.78 | ppb |
| Uranium | 238-1 | 442.05 | 468.90 | 462.77 | 457.91 | 3.07 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 483.57 | 487.67 | 495.09 | 488.77 | 1.19 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 4699.91 | 4747.25 | 4660.89 | 4702.68 | 0.92 | ppb |
| Zirconium | 90-1 | 451.81 | 473.51 | 484.10 | 469.81 | 3.50 | ppb |
| Zirconium | 91-1 | 449.53 | 478.36 | 482.45 | 470.11 | 3.82 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47679.13 | 51161.00 | 48680.25 | 49173.46 | 3.65 | ppb |
| Antimony | 121-1 | 472.72 | 487.10 | 498.90 | 486.24 | 2.70 | ppb |
| Arsenic | 75-2 | 479.18 | 527.99 | 526.72 | 511.30 | 5.44 | ppb |
| Barium | 135-1 | 2376.50 | 2486.66 | 2519.61 | 2460.92 | 3.05 | ppb |
| Barium | 137-1 | 2395.98 | 2473.15 | 2475.49 | 2448.21 | 1.85 | ppb |
| Beryllium | 9-1 | 461.88 | 484.72 | 466.64 | 471.08 | 2.56 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 84 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 471.59 | 493.39 | 503.03 | 489.33 | 3.29 | ppb |
| Cadmium | 106-1 | 475.28 | 491.81 | 505.13 | 490.74 | 3.05 | ppb |
| Cadmium | 111-1 | 466.97 | 484.10 | 494.06 | 481.71 | 2.84 | ppb |
| Calcium | 43-1 | 224347.74 | 233395.27 | 232822.40 | 230188.47 | 2.20 | ppb |
| Calcium | 44-1 | 221451.68 | 231021.39 | 229754.44 | 227409.17 | 2.29 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 500.36 | 528.53 | 508.53 | 512.47 | 2.83 | ppb |
| Cobalt | 59-2 | 480.79 | 525.04 | 500.67 | 502.17 | 4.41 | ppb |
| Copper | 63-2 | 4613.60 | 4917.47 | 4756.52 | 4762.53 | 3.19 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 93 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 85 | | % |
| Iron | 54-2 | 118138.90 | 127775.61 | 124640.82 | 123518.44 | 3.98 | ppb |
| Iron | 56-2 | 117758.48 | 126462.41 | 122995.33 | 122405.40 | 3.58 | ppb |
| Iron | 57-2 | 118272.32 | 127914.11 | 122436.86 | 122874.43 | 3.94 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2371.48 | 2550.58 | 2534.99 | 2485.68 | 3.99 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2393.26 | 2532.91 | 2491.68 | 2472.62 | 2.90 | ppb |
| Lead | 208-1 | 2379.83 | 2520.37 | 2487.20 | 2462.47 | 2.98 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 234508.26 | 255830.15 | 248361.67 | 246233.36 | 4.39 | ppb |
| Manganese | 55-2 | 4759.39 | 5116.69 | 5051.42 | 4975.83 | 3.82 | ppb |
| Molybdenum | 94-1 | 4668.86 | 5011.86 | 4953.38 | 4878.04 | 3.76 | ppb |
| Molybdenum | 95-1 | 4634.26 | 4931.80 | 4963.41 | 4843.15 | 3.75 | ppb |
| Molybdenum | 96-1 | 4693.65 | 4839.81 | 4936.21 | 4823.22 | 2.53 | ppb |
| Molybdenum | 97-1 | 4637.51 | 4896.16 | 4947.24 | 4826.97 | 3.44 | ppb |
| Molybdenum | 98-1 | 4632.62 | 4932.24 | 4880.64 | 4815.17 | 3.33 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 447.35 | 479.54 | 462.92 | 463.27 | 3.47 | ppb |
| Phosphorus | 31-2 | 9546.45 | 10449.08 | 9995.12 | 9996.89 | 4.51 | ppb |
| Potassium | 39-2 | 116942.15 | 126240.84 | 123803.90 | 122328.97 | 3.94 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 87 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 451.33 | 474.45 | 476.09 | 467.29 | 2.96 | ppb |
| Selenium | 77-2 | 458.57 | 486.03 | 516.55 | 487.05 | 5.96 | ppb |
| Selenium | 78-2 | 457.75 | 523.57 | 487.02 | 489.44 | 6.74 | ppb |
| Silicon | 28-1 | 480.54 | 496.96 | 496.78 | 491.43 | 1.92 | ppb |
| Silver | 107-1 | 452.43 | 479.82 | 486.51 | 472.92 | 3.82 | ppb |
| Silver | 109-1 | 461.08 | 475.27 | 492.95 | 476.43 | 3.35 | ppb |
| Sodium | 23-2 | 236500.81 | 259078.17 | 252310.15 | 249296.38 | 4.65 | ppb |
| Strontium | 86-1 | 475.03 | 502.10 | 501.81 | 492.98 | 3.15 | ppb |
| Strontium | 88-1 | 467.23 | 487.71 | 487.54 | 480.83 | 2.45 | ppb |
| Sulfur | 34-1 | 9687.79 | 10359.12 | 9987.05 | 10011.32 | 3.36 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 478.62 | 511.03 | 505.53 | 498.39 | 3.48 | ppb |
| Thallium | 205-1 | 470.32 | 519.41 | 506.59 | 498.77 | 5.10 | ppb |
| Tin | 118-1 | 479.05 | 488.05 | 495.31 | 487.47 | 1.67 | ppb |
| Titanium | 47-1 | 4673.81 | 4897.05 | 4865.86 | 4812.24 | 2.51 | ppb |
| Uranium | 238-1 | 477.81 | 497.98 | 492.38 | 489.39 | 2.13 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 496.68 | 538.33 | 510.36 | 515.12 | 4.12 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 94 | | % |
| Zinc | 66-2 | 4603.28 | 4994.03 | 4818.12 | 4805.14 | 4.07 | ppb |
| Zirconium | 90-1 | 465.79 | 512.33 | 500.78 | 492.97 | 4.92 | ppb |
| Zirconium | 91-1 | 477.05 | 502.90 | 503.27 | 494.41 | 3.04 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.79 | 0.74 | 0.84 | 0.79 | 6.33 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.06 | 0.06 | 4.69 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.03 | 0.03 | 0.04 | 0.03 | 19.08 | ppb |
| Barium | 137-1 | 0.03 | 0.02 | 0.03 | 0.03 | 9.35 | ppb |
| Beryllium | 9-1 | 0.20 | 0.22 | 0.20 | 0.21 | 4.45 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.01 | 0.02 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.35 | -0.61 | 0.38 | -0.20 | | ppb |
| Cadmium | 111-1 | 0.00 | -0.04 | 0.05 | 0.00 | 919.44 | ppb |
| Calcium | 43-1 | 0.31 | 1.01 | -0.11 | 0.40 | 139.11 | ppb |
| Calcium | 44-1 | -0.63 | 1.02 | 0.16 | 0.18 | 452.86 | 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 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.02 | 0.02 | 6.04 | ppb |
| Copper | 63-2 | 0.04 | 0.02 | -0.01 | 0.02 | 149.72 | 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 | | | | 104 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 3.35 | 3.05 | 4.30 | 3.57 | 18.25 | ppb |
| Iron | 56-2 | 3.50 | 3.48 | 3.43 | 3.47 | 1.12 | ppb |
| Iron | 57-2 | 3.22 | 2.73 | 2.35 | 2.77 | 15.78 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.18 | 0.18 | 0.19 | 0.18 | 3.84 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.19 | 0.22 | 0.21 | 0.21 | 7.34 | ppb |
| Lead | 208-1 | 0.19 | 0.20 | 0.19 | 0.19 | 3.57 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 3.92 | 2.84 | 3.92 | 3.56 | 17.61 | ppb |
| Manganese | 55-2 | 0.25 | 0.21 | 0.22 | 0.23 | 9.48 | ppb |
| Molybdenum | 94-1 | 0.10 | 0.10 | 0.10 | 0.10 | 1.55 | ppb |
| Molybdenum | 95-1 | 0.07 | 0.07 | 0.07 | 0.07 | 5.82 | ppb |
| Molybdenum | 96-1 | 0.07 | 0.07 | 0.07 | 0.07 | 6.57 | ppb |
| Molybdenum | 97-1 | 0.07 | 0.07 | 0.07 | 0.07 | 3.29 | ppb |
| Molybdenum | 98-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.09 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.40 | 0.44 | 0.43 | 0.42 | 5.47 | ppb |
| Phosphorus | 31-2 | -33.21 | -26.54 | -24.61 | -28.12 | | ppb |
| Potassium | 39-2 | 49.70 | 40.37 | 40.50 | 43.52 | 12.29 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | -0.09 | 0.01 | 0.07 | 0.00 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.80 | -0.43 | -0.05 | -0.43 | | ppb |
| Silicon | 28-1 | -5.65 | -1.84 | -4.26 | -3.92 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 1.19 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.82 | ppb |
| Sodium | 23-2 | 45.49 | 38.38 | 38.50 | 40.79 | 9.98 | ppb |
| Strontium | 86-1 | 0.03 | 0.03 | 0.03 | 0.03 | 12.50 | ppb |
| Strontium | 88-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.23 | ppb |
| Sulfur | 34-1 | -840.17 | -81.45 | -514.76 | -478.80 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.07 | 0.07 | 0.07 | 0.07 | 2.06 | ppb |
| Thallium | 205-1 | 0.07 | 0.07 | 0.07 | 0.07 | 3.12 | ppb |
| Tin | 118-1 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Titanium | 47-1 | 0.05 | 0.02 | 0.03 | 0.03 | 44.75 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 15.62 | ppb |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 22.79 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 0.26 | 0.20 | 0.36 | 0.27 | 29.36 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 27.93 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.02 | 34.67 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 21281.43 | 22422.03 | 19119.73 | 20941.06 | 8.01 | ppb |
| Antimony | 121-1 | 1.04 | 1.04 | 1.03 | 1.04 | 0.65 | ppb |
| Arsenic | 75-2 | 54.27 | 63.05 | 53.27 | 56.86 | 9.46 | ppb |
| Barium | 135-1 | 237.48 | 245.04 | 240.44 | 240.99 | 1.58 | ppb |
| Barium | 137-1 | 246.40 | 257.63 | 245.54 | 249.86 | 2.70 | ppb |
| Beryllium | 9-1 | 1.01 | 1.01 | 1.01 | 1.01 | 0.08 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.37 | 0.41 | 0.57 | 0.45 | 23.53 | ppb |
| Cadmium | 106-1 | 0.38 | 1.00 | 0.99 | 0.79 | 44.57 | ppb |
| Cadmium | 111-1 | 0.21 | 0.26 | 0.27 | 0.25 | 13.04 | ppb |
| Calcium | 43-1 | 5358.67 | 5478.66 | 5395.82 | 5411.05 | 1.14 | ppb |
| Calcium | 44-1 | 5424.14 | 5552.93 | 5389.28 | 5455.45 | 1.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 49.74 | 53.56 | 47.28 | 50.19 | 6.30 | ppb |
| Cobalt | 59-2 | 27.72 | 29.81 | 26.42 | 27.98 | 6.12 | ppb |
| Copper | 63-2 | 101.00 | 109.23 | 94.43 | 101.55 | 7.30 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 58166.50 | 61905.71 | 54289.44 | 58120.55 | 6.55 | ppb |
| Iron | 56-2 | 58063.90 | 62626.06 | 54667.23 | 58452.40 | 6.83 | ppb |
| Iron | 57-2 | 58982.34 | 63641.58 | 55369.89 | 59331.27 | 6.99 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 24.91 | 25.46 | 25.58 | 25.32 | 1.41 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23.48 | 24.28 | 23.59 | 23.79 | 1.82 | ppb |
| Lead | 208-1 | 23.99 | 24.65 | 24.39 | 24.34 | 1.36 | ppb |
| Lithium | 6-1 | | | | 116 | | % |
| Magnesium | 24-2 | 10548.83 | 11371.37 | 9613.55 | 10511.25 | 8.37 | ppb |
| Manganese | 55-2 | 469.67 | 504.82 | 444.48 | 472.99 | 6.41 | ppb |
| Molybdenum | 94-1 | 2.55 | 2.46 | 2.51 | 2.50 | 1.72 | ppb |
| Molybdenum | 95-1 | 1.16 | 1.15 | 1.12 | 1.14 | 1.92 | ppb |
| Molybdenum | 96-1 | 1.30 | 1.30 | 1.34 | 1.31 | 1.93 | ppb |
| Molybdenum | 97-1 | 1.11 | 1.09 | 1.12 | 1.11 | 1.38 | ppb |
| Molybdenum | 98-1 | 1.15 | 1.15 | 1.14 | 1.15 | 0.43 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 76.97 | 83.18 | 72.46 | 77.53 | 6.95 | ppb |
| Phosphorus | 31-2 | 621.81 | 628.06 | 533.99 | 594.62 | 8.85 | ppb |
| Potassium | 39-2 | 588.37 | 635.63 | 556.47 | 593.49 | 6.71 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 10.76 | 10.95 | 11.89 | 11.20 | 5.42 | ppb |
| Selenium | 77-2 | 42.53 | 34.61 | 33.39 | 36.84 | 13.47 | ppb |
| Selenium | 78-2 | 15.04 | 19.31 | 16.06 | 16.80 | 13.28 | ppb |
| Silicon | 28-1 | 6420.01 | 6471.41 | 6400.82 | 6430.75 | 0.57 | ppb |
| Silver | 107-1 | 0.35 | 0.36 | 0.35 | 0.35 | 1.52 | ppb |
| Silver | 109-1 | 0.34 | 0.36 | 0.35 | 0.35 | 3.32 | ppb |
| Sodium | 23-2 | 104.29 | 125.13 | 100.91 | 110.11 | 11.91 | ppb |
| Strontium | 86-1 | 51.00 | 51.22 | 51.31 | 51.18 | 0.31 | ppb |
| Strontium | 88-1 | 53.70 | 53.55 | 53.40 | 53.55 | 0.29 | ppb |
| Sulfur | 34-1 | -1771.09 | -2032.07 | -2235.89 | -2013.02 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.40 | 0.45 | 0.47 | 0.44 | 8.86 | ppb |
| Thallium | 205-1 | 0.42 | 0.47 | 0.49 | 0.46 | 8.31 | ppb |
| Tin | 118-1 | 0.34 | 0.36 | 0.37 | 0.36 | 4.55 | ppb |
| Titanium | 47-1 | 20.50 | 20.61 | 20.65 | 20.59 | 0.38 | ppb |
| Uranium | 238-1 | 0.43 | 0.44 | 0.46 | 0.44 | 2.51 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 62.21 | 66.69 | 58.27 | 62.39 | 6.76 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 131.40 | 138.70 | 122.80 | 130.97 | 6.08 | ppb |
| Zirconium | 90-1 | 0.87 | 0.85 | 0.85 | 0.86 | 1.02 | ppb |
| Zirconium | 91-1 | 0.84 | 0.87 | 0.88 | 0.86 | 2.35 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6.85 | 6.64 | 5.75 | 6.42 | 9.10 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.17 | ppb |
| Arsenic | 75-2 | 0.18 | 0.25 | 0.16 | 0.20 | 25.01 | ppb |
| Barium | 135-1 | 17.05 | 17.00 | 16.71 | 16.92 | 1.07 | ppb |
| Barium | 137-1 | 16.79 | 16.87 | 17.01 | 16.89 | 0.65 | ppb |
| Beryllium | 9-1 | 0.05 | 0.06 | 0.05 | 0.05 | 6.74 | ppb |
| Bismuth | 209-1 | | | | 88 | | % |
| Bismuth | 209-2 | | | | 87 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.04 | 0.08 | 0.05 | 53.03 | ppb |
| Cadmium | 106-1 | -1.28 | 0.17 | 0.25 | -0.29 | | ppb |
| Cadmium | 111-1 | -0.08 | 0.02 | 0.03 | -0.01 | | ppb |
| Calcium | 43-1 | 434024.78 | 428240.18 | 430796.71 | 431020.55 | 0.67 | ppb |
| Calcium | 44-1 | 414506.75 | 425121.05 | 416919.32 | 418849.04 | 1.33 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.07 | 0.04 | 0.12 | 0.08 | 53.89 | ppb |
| Cobalt | 59-2 | 0.06 | 0.06 | 0.06 | 0.06 | 3.63 | ppb |
| Copper | 63-2 | 0.19 | 0.19 | 0.21 | 0.20 | 6.99 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 1310.05 | 1309.67 | 1325.39 | 1315.04 | 0.68 | ppb |
| Iron | 56-2 | 1329.49 | 1340.74 | 1360.69 | 1343.64 | 1.18 | ppb |
| Iron | 57-2 | 1307.95 | 1326.96 | 1328.78 | 1321.23 | 0.87 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.20 | 0.16 | 0.15 | 0.17 | 15.84 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.19 | 0.18 | 0.16 | 0.18 | 8.25 | ppb |
| Lead | 208-1 | 0.20 | 0.17 | 0.16 | 0.17 | 11.36 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 143401.25 | 141307.28 | 144264.50 | 142991.01 | 1.06 | ppb |
| Manganese | 55-2 | 50.10 | 49.39 | 49.92 | 49.80 | 0.74 | ppb |
| Molybdenum | 94-1 | 0.71 | 0.71 | 0.71 | 0.71 | 0.35 | ppb |
| Molybdenum | 95-1 | 0.72 | 0.75 | 0.79 | 0.75 | 4.46 | ppb |
| Molybdenum | 96-1 | 0.70 | 0.72 | 0.71 | 0.71 | 1.77 | ppb |
| Molybdenum | 97-1 | 0.73 | 0.75 | 0.73 | 0.74 | 1.12 | ppb |
| Molybdenum | 98-1 | 0.71 | 0.72 | 0.72 | 0.72 | 1.11 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.42 | 0.54 | 0.54 | 0.50 | 14.65 | ppb |
| Phosphorus | 31-2 | -13.20 | 0.43 | -18.02 | -10.27 | | ppb |
| Potassium | 39-2 | 4614.68 | 4627.55 | 4707.48 | 4649.90 | 1.08 | ppb |
| Rhodium | 103-1 | | | | 88 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 11.34 | 11.22 | 11.56 | 11.37 | 1.50 | ppb |
| Selenium | 77-2 | 7.98 | 12.33 | 12.35 | 10.89 | 23.08 | ppb |
| Selenium | 78-2 | 10.38 | 12.48 | 11.65 | 11.50 | 9.18 | ppb |
| Silicon | 28-1 | 8358.12 | 8533.71 | 8410.78 | 8434.20 | 1.07 | ppb |
| Silver | 107-1 | 0.02 | 0.03 | 0.03 | 0.03 | 14.59 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.81 | ppb |
| Sodium | 23-2 | 180455.22 | 182544.80 | 183111.00 | 182037.01 | 0.77 | ppb |
| Strontium | 86-1 | 14171.21 | 13702.65 | 14098.87 | 13990.91 | 1.80 | ppb |
| Strontium | 88-1 | 14135.91 | 13796.54 | 14123.75 | 14018.73 | 1.37 | ppb |
| Sulfur | 34-1 | 461949.98 | 459920.69 | 459549.36 | 460473.34 | 0.28 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 0.08 | 0.07 | 0.08 | 0.08 | 5.55 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.07 | 0.07 | 4.94 | ppb |
| Tin | 118-1 | 0.54 | 0.55 | 0.79 | 0.63 | 22.09 | ppb |
| Titanium | 47-1 | 0.78 | 0.74 | 0.76 | 0.76 | 2.30 | ppb |
| Uranium | 238-1 | 0.25 | 0.26 | 0.25 | 0.25 | 1.69 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.02 | 0.04 | 0.03 | 30.93 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 0.84 | 0.83 | 0.98 | 0.89 | 9.59 | ppb |
| Zirconium | 90-1 | 0.07 | 0.06 | 0.05 | 0.06 | 10.65 | ppb |
| Zirconium | 91-1 | 0.06 | 0.06 | 0.06 | 0.06 | 5.59 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 576.69 | 567.65 | 579.22 | 574.52 | 1.06 | ppb |
| Antimony | 121-1 | 4.21 | 4.30 | 4.42 | 4.31 | 2.54 | ppb |
| Arsenic | 75-2 | 2.47 | 2.53 | 2.06 | 2.35 | 10.93 | ppb |
| Barium | 135-1 | 39.64 | 41.14 | 41.52 | 40.77 | 2.44 | ppb |
| Barium | 137-1 | 39.97 | 41.60 | 41.49 | 41.02 | 2.21 | ppb |
| Beryllium | 9-1 | 0.04 | 0.06 | 0.05 | 0.05 | 13.67 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.60 | 0.52 | 0.59 | 0.57 | 7.93 | ppb |
| Cadmium | 106-1 | 0.85 | 1.17 | 0.15 | 0.72 | 71.94 | ppb |
| Cadmium | 111-1 | 0.10 | 0.13 | 0.05 | 0.09 | 44.28 | ppb |
| Calcium | 43-1 | 126048.65 | 129053.23 | 129831.40 | 128311.09 | 1.56 | ppb |
| Calcium | 44-1 | 124720.93 | 127437.09 | 127249.61 | 126469.21 | 1.20 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.21 | 0.24 | 0.28 | 0.25 | 13.77 | ppb |
| Cobalt | 59-2 | 0.13 | 0.14 | 0.15 | 0.14 | 6.78 | ppb |
| Copper | 63-2 | 1.16 | 1.12 | 1.12 | 1.14 | 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 | | | | 106 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 37.80 | 38.20 | 37.84 | 37.95 | 0.57 | ppb |
| Iron | 56-2 | 39.04 | 38.54 | 38.66 | 38.74 | 0.67 | ppb |
| Iron | 57-2 | 42.25 | 40.66 | 43.89 | 42.27 | 3.82 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.50 | 0.48 | 0.51 | 0.50 | 3.12 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.47 | 0.49 | 0.50 | 0.49 | 2.47 | ppb |
| Lead | 208-1 | 0.49 | 0.49 | 0.51 | 0.49 | 2.16 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 30.21 | 28.93 | 27.32 | 28.82 | 5.03 | ppb |
| Manganese | 55-2 | 3.14 | 3.12 | 3.00 | 3.08 | 2.38 | ppb |
| Molybdenum | 94-1 | 34.23 | 34.37 | 34.73 | 34.44 | 0.74 | ppb |
| Molybdenum | 95-1 | 40.62 | 41.65 | 41.80 | 41.36 | 1.56 | ppb |
| Molybdenum | 96-1 | 39.23 | 40.46 | 40.59 | 40.09 | 1.86 | ppb |
| Molybdenum | 97-1 | 41.60 | 42.14 | 41.94 | 41.89 | 0.65 | ppb |
| Molybdenum | 98-1 | 40.28 | 41.45 | 41.32 | 41.02 | 1.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 158.13 | 157.60 | 161.10 | 158.94 | 1.18 | ppb |
| Phosphorus | 31-2 | 389.77 | 379.77 | 347.07 | 372.20 | 6.00 | ppb |
| Potassium | 39-2 | 58632.25 | 59264.23 | 60088.96 | 59328.48 | 1.23 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 11.63 | 11.29 | 11.47 | 11.46 | 1.50 | ppb |
| Selenium | 77-2 | 4.82 | 8.97 | 10.23 | 8.00 | 35.33 | ppb |
| Selenium | 78-2 | 11.00 | 13.02 | 13.25 | 12.42 | 9.98 | ppb |
| Silicon | 28-1 | 2211.06 | 2251.04 | 2259.19 | 2240.43 | 1.15 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.13 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.45 | ppb |
| Sodium | 23-2 | 31101.13 | 31227.35 | 30673.57 | 31000.68 | 0.94 | ppb |
| Strontium | 86-1 | 1252.08 | 1280.59 | 1290.57 | 1274.41 | 1.57 | ppb |
| Strontium | 88-1 | 1249.41 | 1294.49 | 1269.22 | 1271.04 | 1.78 | ppb |
| Sulfur | 34-1 | 11687.89 | 12002.61 | 11772.38 | 11820.96 | 1.38 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.05 | 0.05 | 0.04 | 0.05 | 1.65 | ppb |
| Thallium | 205-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.61 | ppb |
| Tin | 118-1 | 0.60 | 0.63 | 0.61 | 0.61 | 2.89 | ppb |
| Titanium | 47-1 | 0.64 | 0.69 | 0.71 | 0.68 | 5.24 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.59 | 2.70 | 2.61 | 2.63 | 2.26 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 3.37 | 3.33 | 3.66 | 3.46 | 5.27 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.02 | 0.03 | 5.36 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.03 | 0.03 | 10.80 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.18 | 0.14 | 0.78 | 0.70 | 75.08 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 10.44 | ppb |
| Arsenic | 75-2 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.01 | 0.01 | 48.91 | ppb |
| Barium | 137-1 | 0.01 | 0.00 | 0.01 | 0.00 | 58.52 | ppb |
| Beryllium | 9-1 | 0.05 | 0.05 | 0.04 | 0.05 | 7.95 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.03 | 0.01 | 0.02 | 44.97 | ppb |
| Cadmium | 106-1 | 0.96 | 1.10 | 1.54 | 1.20 | 24.97 | ppb |
| Cadmium | 111-1 | 0.07 | 0.09 | 0.12 | 0.09 | 28.16 | ppb |
| Calcium | 43-1 | 4.54 | 5.27 | 4.22 | 4.68 | 11.52 | ppb |
| Calcium | 44-1 | 6.39 | 4.39 | 3.77 | 4.85 | 28.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.21 | -0.21 | -0.22 | -0.21 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | 73.89 | ppb |
| Copper | 63-2 | -0.05 | -0.07 | -0.01 | -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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 0.62 | 0.24 | 0.20 | 0.36 | 65.26 | ppb |
| Iron | 56-2 | 0.47 | 0.62 | 0.72 | 0.61 | 20.62 | ppb |
| Iron | 57-2 | 0.13 | -0.14 | 0.28 | 0.09 | 232.73 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.05 | 0.04 | 0.04 | 0.05 | 15.28 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.06 | 0.05 | 0.04 | 0.05 | 12.02 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 5.29 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -2.51 | -1.00 | -0.62 | -1.38 | | ppb |
| Manganese | 55-2 | 0.11 | 0.11 | 0.09 | 0.10 | 12.19 | ppb |
| Molybdenum | 94-1 | 0.00 | 0.02 | 0.01 | 0.01 | 98.11 | ppb |
| Molybdenum | 95-1 | 0.01 | 0.01 | 0.01 | 0.01 | 32.57 | ppb |
| Molybdenum | 96-1 | 0.01 | 0.01 | 0.01 | 0.01 | 26.10 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.80 | ppb |
| Molybdenum | 98-1 | 0.01 | 0.01 | 0.01 | 0.01 | 46.96 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.22 | 0.24 | 0.25 | 0.24 | 7.85 | ppb |
| Phosphorus | 31-2 | -33.85 | -30.41 | -25.60 | -29.95 | | ppb |
| Potassium | 39-2 | 57.37 | 60.41 | 60.74 | 59.51 | 3.12 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.08 | -0.08 | 0.02 | 0.01 | 1310.35 | ppb |
| Selenium | 77-2 | 0.00 | 0.67 | 0.00 | 0.22 | 173.21 | ppb |
| Selenium | 78-2 | -0.43 | -0.81 | -0.20 | -0.48 | | ppb |
| Silicon | 28-1 | -3.59 | -3.48 | -4.34 | -3.80 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.35 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 15.28 | ppb |
| Sodium | 23-2 | 22.34 | 24.20 | 29.40 | 25.31 | 14.44 | ppb |
| Strontium | 86-1 | 0.12 | 0.08 | 0.07 | 0.09 | 32.29 | ppb |
| Strontium | 88-1 | 0.11 | 0.09 | 0.07 | 0.09 | 23.81 | ppb |
| Sulfur | 34-1 | 1283.68 | 1536.72 | 1419.28 | 1413.22 | 8.96 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.03 | 0.03 | 8.59 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 2.21 | ppb |
| Tin | 118-1 | -0.03 | -0.01 | -0.03 | -0.02 | | ppb |
| Titanium | 47-1 | 0.01 | 0.00 | -0.01 | 0.00 | 735.57 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.00 | 0.00 | 0.00 | 74.98 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 0.44 | 0.37 | 0.40 | 0.41 | 8.05 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 612.19 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | 93.16 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 41.62 | 40.61 | 38.96 | 40.40 | 3.33 | ppb |
| Antimony | 121-1 | 4.17 | 4.15 | 4.32 | 4.21 | 2.21 | ppb |
| Arsenic | 75-2 | 1.87 | 2.05 | 2.48 | 2.13 | 14.70 | ppb |
| Barium | 135-1 | 20.51 | 20.40 | 21.11 | 20.67 | 1.87 | ppb |
| Barium | 137-1 | 20.82 | 20.66 | 21.21 | 20.90 | 1.36 | ppb |
| Beryllium | 9-1 | 2.06 | 2.05 | 2.07 | 2.06 | 0.48 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 2.12 | 2.08 | 2.40 | 2.20 | 8.13 | ppb |
| Cadmium | 106-1 | 2.76 | 2.87 | 3.45 | 3.03 | 12.16 | ppb |
| Cadmium | 111-1 | 2.20 | 2.18 | 2.23 | 2.20 | 1.15 | ppb |
| Calcium | 43-1 | 1010.39 | 1006.66 | 1019.89 | 1012.31 | 0.67 | ppb |
| Calcium | 44-1 | 991.96 | 987.96 | 1003.77 | 994.56 | 0.83 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.88 | 3.80 | 3.85 | 3.85 | 1.07 | ppb |
| Cobalt | 59-2 | 2.10 | 2.17 | 2.17 | 2.15 | 1.94 | ppb |
| Copper | 63-2 | 4.58 | 4.54 | 4.65 | 4.59 | 1.16 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 417.04 | 408.94 | 410.79 | 412.26 | 1.03 | ppb |
| Iron | 56-2 | 414.75 | 415.38 | 416.16 | 415.43 | 0.17 | ppb |
| Iron | 57-2 | 416.36 | 418.66 | 413.66 | 416.23 | 0.60 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2.00 | 1.96 | 2.04 | 2.00 | 2.04 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.03 | 2.03 | 2.06 | 2.04 | 0.91 | ppb |
| Lead | 208-1 | 2.01 | 2.02 | 2.04 | 2.03 | 0.87 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 994.77 | 1007.31 | 998.29 | 1000.13 | 0.65 | ppb |
| Manganese | 55-2 | 2.27 | 2.34 | 2.11 | 2.24 | 5.07 | ppb |
| Molybdenum | 94-1 | 11.81 | 11.92 | 11.84 | 11.86 | 0.49 | ppb |
| Molybdenum | 95-1 | 9.95 | 10.11 | 9.90 | 9.98 | 1.14 | ppb |
| Molybdenum | 96-1 | 10.11 | 10.17 | 10.19 | 10.16 | 0.42 | ppb |
| Molybdenum | 97-1 | 9.89 | 10.21 | 9.93 | 10.01 | 1.73 | ppb |
| Molybdenum | 98-1 | 9.87 | 9.94 | 9.73 | 9.85 | 1.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.40 | 2.49 | 2.34 | 2.41 | 3.12 | ppb |
| Phosphorus | 31-2 | 20.62 | 18.45 | 22.89 | 20.65 | 10.74 | ppb |
| Potassium | 39-2 | 1023.00 | 1015.67 | 1027.87 | 1022.18 | 0.60 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 10.75 | 11.07 | 10.89 | 10.90 | 1.45 | ppb |
| Selenium | 77-2 | 8.33 | 4.82 | 6.91 | 6.69 | 26.43 | ppb |
| Selenium | 78-2 | 10.49 | 9.19 | 8.03 | 9.24 | 13.30 | ppb |
| Silicon | 28-1 | 13.43 | 18.76 | 19.55 | 17.25 | 19.30 | ppb |
| Silver | 107-1 | 2.03 | 2.04 | 2.11 | 2.06 | 2.23 | ppb |
| Silver | 109-1 | 2.05 | 2.07 | 2.16 | 2.09 | 2.58 | ppb |
| Sodium | 23-2 | 1071.61 | 1061.11 | 1060.16 | 1064.29 | 0.60 | ppb |
| Strontium | 86-1 | 2.03 | 2.03 | 2.04 | 2.03 | 0.07 | ppb |
| Strontium | 88-1 | 2.05 | 2.05 | 2.08 | 2.06 | 0.81 | ppb |
| Sulfur | 34-1 | 1637.96 | 1288.16 | 1352.95 | 1426.36 | 13.05 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 2.00 | 2.03 | 2.06 | 2.03 | 1.59 | ppb |
| Thallium | 205-1 | 2.03 | 2.03 | 2.08 | 2.05 | 1.51 | ppb |
| Tin | 118-1 | 10.42 | 10.57 | 10.69 | 10.56 | 1.26 | ppb |
| Titanium | 47-1 | 2.52 | 2.51 | 2.57 | 2.53 | 1.23 | ppb |
| Uranium | 238-1 | 1.85 | 1.87 | 1.90 | 1.87 | 1.32 | ppb |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10.56 | 10.44 | 10.44 | 10.48 | 0.67 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 10.89 | 10.65 | 11.13 | 10.89 | 2.19 | ppb |
| Zirconium | 90-1 | 1.95 | 2.01 | 2.01 | 1.99 | 1.68 | ppb |
| Zirconium | 91-1 | 1.97 | 2.05 | 2.00 | 2.00 | 2.00 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.82 | 2.09 | 1.65 | 1.85 | 11.94 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.74 | ppb |
| Arsenic | 75-2 | 0.02 | -0.02 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | 0.03 | 0.03 | 0.04 | 0.03 | 31.19 | ppb |
| Barium | 137-1 | 0.03 | 0.03 | 0.03 | 0.03 | 14.39 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.03 | 0.04 | 15.95 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | 0.00 | 0.01 | 0.00 | | ppb |
| Cadmium | 106-1 | 0.96 | 0.72 | 1.12 | 0.93 | 21.77 | ppb |
| Cadmium | 111-1 | 0.08 | 0.06 | 0.09 | 0.08 | 20.83 | ppb |
| Calcium | 43-1 | 3.10 | 2.46 | 2.76 | 2.78 | 11.48 | ppb |
| Calcium | 44-1 | 1.74 | 2.54 | 2.98 | 2.42 | 25.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.08 | 0.06 | 0.09 | 0.08 | 21.03 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.01 | 0.00 | 104.83 | ppb |
| Copper | 63-2 | -0.04 | -0.02 | -0.07 | -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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 1.79 | 1.90 | 2.16 | 1.95 | 9.48 | ppb |
| Iron | 56-2 | 2.00 | 2.01 | 2.12 | 2.04 | 3.18 | ppb |
| Iron | 57-2 | 1.15 | 1.14 | 1.79 | 1.36 | 27.31 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.09 | 0.10 | 0.10 | 10.23 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.11 | 0.10 | 0.09 | 0.10 | 7.77 | ppb |
| Lead | 208-1 | 0.11 | 0.10 | 0.10 | 0.10 | 7.21 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 0.52 | 0.23 | 1.49 | 0.75 | 88.18 | ppb |
| Manganese | 55-2 | 0.40 | 0.37 | 0.47 | 0.42 | 13.17 | ppb |
| Molybdenum | 94-1 | 0.01 | 0.02 | 0.02 | 0.02 | 55.56 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | 106.55 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | 69.19 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.00 | 0.00 | 0.00 | 80.25 | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.18 | 0.26 | 0.22 | 0.22 | 17.70 | ppb |
| Phosphorus | 31-2 | -34.20 | -20.84 | -32.75 | -29.26 | | ppb |
| Potassium | 39-2 | 31.06 | 31.78 | 37.07 | 33.30 | 9.86 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | -0.05 | -0.31 | -0.42 | -0.26 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.61 | -1.01 | -0.80 | -0.80 | | ppb |
| Silicon | 28-1 | 7.07 | 8.36 | 9.51 | 8.31 | 14.68 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.01 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.14 | ppb |
| Sodium | 23-2 | 40.78 | 43.25 | 46.13 | 43.39 | 6.18 | ppb |
| Strontium | 86-1 | 0.04 | 0.06 | 0.04 | 0.05 | 22.49 | ppb |
| Strontium | 88-1 | 0.07 | 0.08 | 0.07 | 0.07 | 5.32 | ppb |
| Sulfur | 34-1 | 1106.17 | 814.25 | 1194.03 | 1038.15 | 19.15 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 16.94 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 12.66 | ppb |
| Tin | 118-1 | 0.08 | 0.05 | 0.07 | 0.07 | 19.34 | ppb |
| Titanium | 47-1 | 0.03 | 0.03 | -0.01 | 0.02 | 117.30 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 151.49 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | -0.09 | -0.11 | -0.09 | -0.10 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 82.01 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.01 | 0.01 | 36.23 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.53 | 1.37 | 0.93 | 0.95 | 44.40 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 46.90 | ppb |
| Arsenic | 75-2 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.02 | 0.02 | 0.03 | 0.02 | 15.44 | ppb |
| Barium | 137-1 | 0.01 | 0.02 | 0.02 | 0.02 | 31.14 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.79 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.03 | 0.06 | 0.02 | 159.89 | ppb |
| Cadmium | 106-1 | 0.52 | 0.91 | 1.02 | 0.81 | 32.54 | ppb |
| Cadmium | 111-1 | 0.04 | 0.07 | 0.08 | 0.06 | 31.00 | ppb |
| Calcium | 43-1 | 3.69 | 1.33 | 2.52 | 2.51 | 46.99 | ppb |
| Calcium | 44-1 | 0.99 | 2.33 | 1.38 | 1.57 | 43.95 | 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 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | -0.07 | -0.04 | -0.10 | -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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 3.89 | 4.02 | 3.03 | 3.65 | 14.79 | ppb |
| Iron | 56-2 | 3.85 | 3.99 | 4.21 | 4.02 | 4.56 | ppb |
| Iron | 57-2 | 4.69 | 3.57 | 3.69 | 3.98 | 15.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.27 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.05 | 0.03 | 0.04 | 0.04 | 20.45 | ppb |
| Lead | 208-1 | 0.05 | 0.04 | 0.04 | 0.04 | 10.05 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 1.57 | 1.02 | 1.71 | 1.43 | 25.15 | ppb |
| Manganese | 55-2 | 1.72 | 1.76 | 1.77 | 1.75 | 1.60 | ppb |
| Molybdenum | 94-1 | 0.02 | 0.01 | 0.02 | 0.02 | 12.96 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | 53.99 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | 13.87 | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.27 | 0.26 | 0.33 | 0.28 | 13.96 | ppb |
| Phosphorus | 31-2 | -30.76 | -29.11 | -29.99 | -29.95 | | ppb |
| Potassium | 39-2 | 33.72 | 33.63 | 35.00 | 34.12 | 2.24 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | -0.10 | -0.01 | -0.28 | -0.13 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.41 | -0.42 | 0.17 | -0.22 | | ppb |
| Silicon | 28-1 | -7.71 | -5.83 | -5.06 | -6.20 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.01 | 0.00 | 26.77 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 45.36 | ppb |
| Sodium | 23-2 | 126.07 | 122.95 | 122.92 | 123.98 | 1.46 | ppb |
| Strontium | 86-1 | -0.02 | 0.00 | 0.01 | 0.00 | | ppb |
| Strontium | 88-1 | 0.02 | 0.02 | 0.02 | 0.02 | 3.21 | ppb |
| Sulfur | 34-1 | 734.94 | 1160.04 | 1086.55 | 993.84 | 22.86 | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.01 | 0.02 | 32.86 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.02 | 11.78 | ppb |
| Tin | 118-1 | 0.02 | 0.02 | 0.03 | 0.02 | 40.59 | ppb |
| Titanium | 47-1 | 0.02 | 0.05 | -0.01 | 0.02 | 126.91 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.01 | 93.08 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | -0.11 | -0.08 | -0.10 | -0.10 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 206.85 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | 141.88 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47692.29 | 46896.15 | 46547.14 | 47045.19 | 1.25 | ppb |
| Antimony | 121-1 | 486.31 | 496.98 | 497.53 | 493.61 | 1.28 | ppb |
| Arsenic | 75-2 | 483.65 | 492.50 | 498.22 | 491.46 | 1.49 | ppb |
| Barium | 135-1 | 2449.77 | 2543.45 | 2534.10 | 2509.10 | 2.06 | ppb |
| Barium | 137-1 | 2433.76 | 2528.53 | 2545.61 | 2502.63 | 2.41 | ppb |
| Beryllium | 9-1 | 468.23 | 472.61 | 488.91 | 476.59 | 2.29 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 489.60 | 498.12 | 499.44 | 495.72 | 1.08 | ppb |
| Cadmium | 106-1 | 492.84 | 501.05 | 504.66 | 499.51 | 1.21 | ppb |
| Cadmium | 111-1 | 478.65 | 495.52 | 493.46 | 489.21 | 1.88 | ppb |
| Calcium | 43-1 | 235057.50 | 238034.54 | 238624.41 | 237238.82 | 0.81 | ppb |
| Calcium | 44-1 | 230760.18 | 237804.37 | 231870.01 | 233478.19 | 1.62 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 483.63 | 483.84 | 478.47 | 481.98 | 0.63 | ppb |
| Cobalt | 59-2 | 481.82 | 482.02 | 485.46 | 483.10 | 0.42 | ppb |
| Copper | 63-2 | 4584.23 | 4608.62 | 4577.38 | 4590.08 | 0.36 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 118169.52 | 118412.86 | 115918.60 | 117500.33 | 1.17 | ppb |
| Iron | 56-2 | 116362.43 | 118689.48 | 115849.12 | 116967.01 | 1.29 | ppb |
| Iron | 57-2 | 118010.58 | 118481.86 | 118283.66 | 118258.70 | 0.20 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2469.70 | 2526.04 | 2486.17 | 2493.97 | 1.16 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2455.65 | 2525.75 | 2462.51 | 2481.30 | 1.56 | ppb |
| Lead | 208-1 | 2462.08 | 2512.58 | 2470.47 | 2481.71 | 1.09 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 237784.84 | 241314.66 | 234030.09 | 237709.87 | 1.53 | ppb |
| Manganese | 55-2 | 4691.02 | 4821.91 | 4692.21 | 4735.05 | 1.59 | ppb |
| Molybdenum | 94-1 | 4885.34 | 5041.37 | 4904.86 | 4943.86 | 1.72 | ppb |
| Molybdenum | 95-1 | 4963.25 | 4946.64 | 4870.62 | 4926.84 | 1.00 | ppb |
| Molybdenum | 96-1 | 4923.29 | 4981.00 | 4979.26 | 4961.18 | 0.66 | ppb |
| Molybdenum | 97-1 | 4887.65 | 4902.12 | 5017.18 | 4935.65 | 1.44 | ppb |
| Molybdenum | 98-1 | 4891.31 | 4956.56 | 4978.60 | 4942.15 | 0.92 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 505.99 | 508.41 | 507.78 | 507.39 | 0.25 | ppb |
| Phosphorus | 31-2 | 9582.27 | 9588.02 | 9597.35 | 9589.21 | 0.08 | ppb |
| Potassium | 39-2 | 118121.08 | 118002.49 | 116147.15 | 117423.57 | 0.94 | ppb |
| Rhodium | 103-1 | | | | 89 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 486.00 | 489.11 | 482.73 | 485.94 | 0.66 | ppb |
| Selenium | 77-2 | 477.78 | 497.95 | 458.62 | 478.12 | 4.11 | ppb |
| Selenium | 78-2 | 456.50 | 480.75 | 481.46 | 472.90 | 3.01 | ppb |
| Silicon | 28-1 | 503.89 | 500.16 | 491.60 | 498.55 | 1.26 | ppb |
| Silver | 107-1 | 472.32 | 484.51 | 476.00 | 477.61 | 1.31 | ppb |
| Silver | 109-1 | 474.69 | 480.73 | 475.67 | 477.03 | 0.68 | ppb |
| Sodium | 23-2 | 241828.52 | 240768.61 | 238466.11 | 240354.41 | 0.72 | ppb |
| Strontium | 86-1 | 492.77 | 504.17 | 506.89 | 501.28 | 1.50 | ppb |
| Strontium | 88-1 | 488.54 | 500.28 | 505.68 | 498.17 | 1.76 | ppb |
| Sulfur | 34-1 | 10220.70 | 10129.13 | 9828.19 | 10059.34 | 2.04 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 500.40 | 506.76 | 493.70 | 500.29 | 1.31 | ppb |
| Thallium | 205-1 | 500.37 | 512.86 | 507.61 | 506.94 | 1.24 | ppb |
| Tin | 118-1 | 486.98 | 495.72 | 499.94 | 494.21 | 1.34 | ppb |
| Titanium | 47-1 | 4905.58 | 4924.69 | 4964.22 | 4931.49 | 0.61 | ppb |
| Uranium | 238-1 | 498.36 | 503.88 | 495.06 | 499.10 | 0.89 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 485.28 | 494.76 | 488.35 | 489.46 | 0.99 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 4587.64 | 4636.03 | 4610.67 | 4611.45 | 0.52 | ppb |
| Zirconium | 90-1 | 495.60 | 511.08 | 492.19 | 499.62 | 2.01 | ppb |
| Zirconium | 91-1 | 496.28 | 511.27 | 495.85 | 501.14 | 1.75 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.03 | 0.99 | 1.17 | 1.06 | 8.97 | ppb |
| Antimony | 121-1 | 0.16 | 0.15 | 0.13 | 0.15 | 12.36 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.03 | 0.01 | 172.26 | ppb |
| Barium | 135-1 | 0.13 | 0.10 | 0.08 | 0.10 | 26.33 | ppb |
| Barium | 137-1 | 0.13 | 0.10 | 0.08 | 0.10 | 23.06 | ppb |
| Beryllium | 9-1 | 0.23 | 0.21 | 0.19 | 0.21 | 8.89 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.10 | 0.09 | 0.02 | 0.07 | 67.31 | ppb |
| Cadmium | 106-1 | -0.32 | -0.25 | 0.00 | -0.19 | | ppb |
| Cadmium | 111-1 | 0.00 | 0.01 | 0.03 | 0.01 | 117.13 | ppb |
| Calcium | 43-1 | 9.30 | 6.28 | 5.23 | 6.94 | 30.42 | ppb |
| Calcium | 44-1 | 7.32 | 5.08 | 2.93 | 5.11 | 42.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.21 | -0.20 | -0.20 | -0.20 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.02 | 0.01 | 0.01 | 31.98 | ppb |
| Copper | 63-2 | -0.01 | 0.02 | -0.02 | 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 | | | | 107 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 2.60 | 3.14 | 3.52 | 3.09 | 15.07 | ppb |
| Iron | 56-2 | 2.96 | 3.30 | 3.26 | 3.17 | 5.91 | ppb |
| Iron | 57-2 | 3.26 | 2.37 | 2.39 | 2.67 | 18.90 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.33 | 0.29 | 0.24 | 0.29 | 15.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.33 | 0.30 | 0.24 | 0.29 | 16.30 | ppb |
| Lead | 208-1 | 0.33 | 0.29 | 0.24 | 0.29 | 15.05 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -0.23 | 0.50 | -0.12 | 0.05 | 837.11 | ppb |
| Manganese | 55-2 | 0.24 | 0.19 | 0.28 | 0.24 | 17.68 | ppb |
| Molybdenum | 94-1 | 0.33 | 0.28 | 0.22 | 0.28 | 20.04 | ppb |
| Molybdenum | 95-1 | 0.31 | 0.24 | 0.19 | 0.25 | 23.93 | ppb |
| Molybdenum | 96-1 | 0.30 | 0.25 | 0.18 | 0.24 | 25.12 | ppb |
| Molybdenum | 97-1 | 0.32 | 0.24 | 0.21 | 0.25 | 22.08 | ppb |
| Molybdenum | 98-1 | 0.29 | 0.26 | 0.19 | 0.25 | 21.26 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.24 | 0.30 | 0.27 | 0.27 | 12.89 | ppb |
| Phosphorus | 31-2 | -34.95 | -32.97 | -26.12 | -31.35 | | ppb |
| Potassium | 39-2 | 45.76 | 44.02 | 36.91 | 42.23 | 11.11 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | -0.17 | 0.47 | 0.04 | 0.11 | 290.03 | ppb |
| Selenium | 77-2 | 0.69 | 0.00 | 0.00 | 0.23 | 173.21 | ppb |
| Selenium | 78-2 | -0.40 | -0.80 | -0.43 | -0.54 | | ppb |
| Silicon | 28-1 | -5.91 | -5.48 | -5.32 | -5.57 | | ppb |
| Silver | 107-1 | 0.08 | 0.07 | 0.06 | 0.07 | 17.14 | ppb |
| Silver | 109-1 | 0.07 | 0.06 | 0.05 | 0.06 | 16.03 | ppb |
| Sodium | 23-2 | 48.93 | 48.23 | 39.34 | 45.50 | 11.74 | ppb |
| Strontium | 86-1 | 0.02 | 0.02 | 0.00 | 0.01 | 76.90 | ppb |
| Strontium | 88-1 | 0.03 | 0.03 | 0.02 | 0.03 | 16.57 | ppb |
| Sulfur | 34-1 | -969.37 | -786.61 | -758.18 | -838.05 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.07 | 0.06 | 0.05 | 0.06 | 20.36 | ppb |
| Thallium | 205-1 | 0.07 | 0.06 | 0.05 | 0.06 | 18.07 | ppb |
| Tin | 118-1 | 0.02 | 0.02 | 0.01 | 0.01 | 26.08 | ppb |
| Titanium | 47-1 | 0.22 | 0.21 | 0.12 | 0.18 | 32.01 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.01 | 0.02 | 32.71 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 24.52 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.53 | 0.56 | 0.54 | 0.54 | 2.84 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.02 | 0.03 | 28.60 | ppb |
| Zirconium | 91-1 | 0.04 | 0.05 | 0.03 | 0.04 | 23.75 | ppb |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 83 | 93 | 57 | 78 | 24.37 | cps |
| Antimony | 121-1 | 47 | 53 | 43 | 48 | 10.66 | cps |
| Arsenic | 75-2 | 7 | 3 | 10 | 7 | 50.03 | cps |
| Barium | 135-1 | 90 | 73 | 40 | 68 | 37.56 | cps |
| Barium | 137-1 | 113 | 97 | 120 | 110 | 10.92 | cps |
| Beryllium | 9-1 | 322 | 284 | 292 | 300 | 6.78 | cps |
| Bismuth | 209-1 | 12687442 | 12408795 | 12017571 | 12371269 | 2.72 | cps |
| Bismuth | 209-2 | 5590091 | 5543926 | 5472177 | 5535398 | 1.07 | cps |
| Bromine | 81-1 | 4117 | 4351 | 4317 | 4262 | 2.96 | cps |
| Cadmium | 108-1 | 30 | 17 | 7 | 18 | 65.83 | cps |
| Cadmium | 106-1 | 8203 | 8112 | 7992 | 8102 | 1.30 | cps |
| Cadmium | 111-1 | 5731 | 5690 | 5607 | 5676 | 1.12 | cps |
| Calcium | 43-1 | 740 | 673 | 657 | 690 | 6.39 | cps |
| Calcium | 44-1 | 34825 | 33716 | 34131 | 34224 | 1.64 | cps |
| Carbon | 12-1 | 6523192 | 6438822 | 6514982 | 6492332 | 0.72 | cps |
| Carbon | 12-2 | 42755 | 42511 | 43257 | 42841 | 0.89 | cps |
| Chlorine | 35-1 | 167429 | 168582 | 167665 | 167892 | 0.36 | cps |
| Chlorine | 35-2 | 740 | 697 | 633 | 690 | 7.78 | cps |
| Chromium | 52-2 | 1620 | 1657 | 1753 | 1677 | 4.11 | cps |
| Cobalt | 59-2 | 103 | 103 | 77 | 94 | 16.30 | cps |
| Copper | 63-2 | 3757 | 3697 | 3954 | 3803 | 3.53 | cps |
| Dysprosium | 156-1 | 20 | 17 | 17 | 18 | 10.81 | cps |
| Dysprosium | 156-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Erbium | 164-1 | 137 | 70 | 107 | 104 | 31.97 | cps |
| Erbium | 164-2 | 30 | 43 | 17 | 30 | 44.43 | cps |
| Gadolinium | 160-1 | 140 | 137 | 123 | 133 | 6.61 | cps |
| Gadolinium | 160-2 | 33 | 23 | 13 | 23 | 42.86 | cps |
| Holmium | 165-1 | 19576447 | 18928803 | 18995399 | 19166883 | 1.86 | cps |
| Holmium | 165-2 | 7320354 | 7402202 | 7322349 | 7348301 | 0.64 | cps |
| Indium | 115-1 | 16078425 | 15651327 | 15531985 | 15753912 | 1.82 | cps |
| Indium | 115-2 | 1726312 | 1761309 | 1743754 | 1743792 | 1.00 | cps |
| Iron | 54-2 | 493 | 553 | 600 | 549 | 9.74 | cps |
| Iron | 56-2 | 6261 | 6838 | 7058 | 6719 | 6.13 | cps |
| Iron | 57-2 | 207 | 170 | 207 | 194 | 10.89 | cps |
| Krypton | 83-1 | 320 | 243 | 307 | 290 | 14.12 | cps |
| Lead | 206-1 | 1403 | 1283 | 1350 | 1346 | 4.47 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1180 | 1090 | 1107 | 1126 | 4.25 | cps |
| Lead | 208-1 | 5230 | 5074 | 5074 | 5126 | 1.76 | cps |
| Lithium | 6-1 | 9190100 | 9041663 | 8946823 | 9059529 | 1.35 | cps |
| Magnesium | 24-2 | 4534 | 4687 | 4731 | 4651 | 2.22 | cps |
| Manganese | 55-2 | 140 | 143 | 140 | 141 | 1.37 | cps |
| Molybdenum | 94-1 | 380 | 400 | 343 | 374 | 7.68 | cps |
| Molybdenum | 95-1 | 143 | 140 | 187 | 157 | 16.62 | cps |
| Molybdenum | 96-1 | 233 | 193 | 213 | 213 | 9.37 | cps |
| Molybdenum | 97-1 | 90 | 100 | 103 | 98 | 7.10 | cps |
| Molybdenum | 98-1 | 260 | 190 | 243 | 231 | 15.82 | cps |
| Neodymium | 150-1 | 13 | 10 | 10 | 11 | 17.30 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 720 | 750 | 677 | 716 | 5.15 | cps |
| Phosphorus | 31-2 | 123 | 83 | 123 | 110 | 21.00 | cps |
| Potassium | 39-2 | 13073 | 13520 | 13043 | 13212 | 2.02 | cps |
| Rhodium | 103-1 | 15724710 | 15158605 | 14868218 | 15250511 | 2.86 | cps |
| Rhodium | 103-2 | 6235829 | 6236249 | 6222405 | 6231494 | 0.13 | cps |
| Scandium | 45-1 | 11687784 | 11382066 | 11197510 | 11422453 | 2.17 | cps |
| Scandium | 45-2 | 234216 | 236027 | 232111 | 234118 | 0.84 | cps |
| Selenium | 82-1 | 27 | 20 | 13 | 20 | 33.32 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 10 | 30 | 10 | 17 | 69.28 | cps |
| Silicon | 28-1 | 650213 | 648416 | 649585 | 649405 | 0.14 | cps |
| Silver | 107-1 | 163 | 213 | 213 | 197 | 14.68 | cps |
| Silver | 109-1 | 107 | 90 | 90 | 96 | 10.07 | cps |
| Sodium | 23-2 | 55756 | 55910 | 55615 | 55760 | 0.26 | cps |
| Strontium | 86-1 | 420 | 513 | 577 | 503 | 15.66 | cps |
| Strontium | 88-1 | 330 | 380 | 373 | 361 | 7.52 | cps |
| Sulfur | 34-1 | 817571 | 819783 | 821251 | 819535 | 0.23 | cps |
| Terbium | 159-1 | 20399134 | 19494686 | 19538821 | 19810880 | 2.57 | cps |
| Terbium | 159-2 | 7125790 | 7085516 | 7032339 | 7081215 | 0.66 | cps |
| Thallium | 203-1 | 263 | 233 | 197 | 231 | 14.45 | cps |
| Thallium | 205-1 | 537 | 470 | 483 | 497 | 7.10 | cps |
| Tin | 118-1 | 2034 | 1957 | 2254 | 2081 | 7.41 | cps |
| Titanium | 47-1 | 253 | 250 | 237 | 247 | 3.58 | cps |
| Uranium | 238-1 | 97 | 93 | 130 | 107 | 19.01 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:08:54 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 7 | 10 | 3 | 7 | 50.03 | cps |
| Ytterbium | 172-1 | 80 | 140 | 77 | 99 | 36.04 | cps |
| Ytterbium | 172-2 | 23 | 53 | 63 | 47 | 44.61 | cps |
| Ytterbium | 176-1 | 2210 | 1900 | 1980 | 2030 | 7.93 | cps |
| Ytterbium | 176-2 | 413 | 460 | 497 | 457 | 9.15 | cps |
| Yttrium | 89-1 | 28625784 | 27692795 | 27314580 | 27877720 | 2.42 | cps |
| Yttrium | 89-2 | 2207354 | 2157535 | 2118957 | 2161282 | 2.05 | cps |
| Zinc | 66-2 | 340 | 327 | 343 | 337 | 2.62 | cps |
| Zirconium | 90-1 | 890 | 1033 | 877 | 933 | 9.31 | cps |
| Zirconium | 91-1 | 147 | 150 | 170 | 156 | 8.11 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1693 | 1720 | 1753 | 1722 | 1.75 | cps |
| Antimony | 121-1 | 35296 | 36468 | 35904 | 35889 | 1.63 | cps |
| Arsenic | 75-2 | 380 | 467 | 383 | 410 | 11.98 | cps |
| Barium | 135-1 | 40641 | 42396 | 41467 | 41501 | 2.12 | cps |
| Barium | 137-1 | 71769 | 72463 | 71417 | 71883 | 0.74 | cps |
| Beryllium | 9-1 | 7689 | 7584 | 7531 | 7601 | 1.06 | cps |
| Bismuth | 209-1 | 11927763 | 11910622 | 11979341 | 11939242 | 0.30 | cps |
| Bismuth | 209-2 | 5466224 | 5547573 | 5522066 | 5511954 | 0.75 | cps |
| Bromine | 81-1 | 4107 | 4324 | 3997 | 4143 | 4.01 | cps |
| Cadmium | 108-1 | 327 | 370 | 373 | 357 | 7.30 | cps |
| Cadmium | 106-1 | 8513 | 8346 | 8329 | 8396 | 1.21 | cps |
| Cadmium | 111-1 | 10378 | 9974 | 10230 | 10194 | 2.00 | cps |
| Calcium | 43-1 | 31825 | 31484 | 31294 | 31535 | 0.85 | cps |
| Calcium | 44-1 | 532733 | 531398 | 534648 | 532926 | 0.31 | cps |
| Carbon | 12-1 | 6816822 | 6724532 | 6798800 | 6780051 | 0.72 | cps |
| Carbon | 12-2 | 44460 | 44758 | 44634 | 44617 | 0.33 | cps |
| Chlorine | 35-1 | 170133 | 169645 | 167415 | 169064 | 0.86 | cps |
| Chlorine | 35-2 | 647 | 787 | 720 | 718 | 9.76 | cps |
| Chromium | 52-2 | 10240 | 10124 | 10524 | 10296 | 2.00 | cps |
| Cobalt | 59-2 | 9143 | 9060 | 9336 | 9180 | 1.55 | cps |
| Copper | 63-2 | 17087 | 16964 | 17064 | 17038 | 0.38 | cps |
| Dysprosium | 156-1 | 3 | 10 | 27 | 13 | 90.16 | cps |
| Dysprosium | 156-2 | 13 | 10 | 0 | 8 | 89.21 | cps |
| Erbium | 164-1 | 80 | 103 | 97 | 93 | 12.88 | cps |
| Erbium | 164-2 | 30 | 23 | 20 | 24 | 20.83 | cps |
| Gadolinium | 160-1 | 110 | 137 | 93 | 113 | 19.29 | cps |
| Gadolinium | 160-2 | 27 | 33 | 17 | 26 | 32.81 | cps |
| Holmium | 165-1 | 19109048 | 18600197 | 18898261 | 18869169 | 1.35 | cps |
| Holmium | 165-2 | 7200011 | 7243161 | 7326745 | 7256639 | 0.89 | cps |
| Indium | 115-1 | 15660500 | 15423472 | 15227593 | 15437189 | 1.40 | cps |
| Indium | 115-2 | 1687469 | 1721838 | 1672260 | 1693856 | 1.50 | cps |
| Iron | 54-2 | 9653 | 10044 | 9890 | 9862 | 1.99 | cps |
| Iron | 56-2 | 172243 | 172263 | 172914 | 172473 | 0.22 | cps |
| Iron | 57-2 | 4097 | 4164 | 4407 | 4223 | 3.86 | cps |
| Krypton | 83-1 | 237 | 253 | 307 | 266 | 13.77 | cps |
| Lead | 206-1 | 14872 | 14688 | 15246 | 14935 | 1.90 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 12870 | 12940 | 12880 | 12897 | 0.29 | cps |
| Lead | 208-1 | 58816 | 58559 | 59263 | 58879 | 0.61 | cps |
| Lithium | 6-1 | 9299891 | 9137682 | 9178154 | 9205242 | 0.92 | cps |
| Magnesium | 24-2 | 155032 | 154737 | 154055 | 154608 | 0.32 | cps |
| Manganese | 55-2 | 1787 | 1943 | 2024 | 1918 | 6.28 | cps |
| Molybdenum | 94-1 | 37480 | 36588 | 37397 | 37155 | 1.33 | cps |
| Molybdenum | 95-1 | 44581 | 44652 | 43775 | 44336 | 1.10 | cps |
| Molybdenum | 96-1 | 49317 | 49103 | 48990 | 49136 | 0.34 | cps |
| Molybdenum | 97-1 | 27594 | 28426 | 27931 | 27984 | 1.50 | cps |
| Molybdenum | 98-1 | 70468 | 71737 | 71624 | 71276 | 0.99 | cps |
| Neodymium | 150-1 | 7 | 17 | 10 | 11 | 45.82 | cps |
| Neodymium | 150-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Nickel | 60-2 | 2930 | 3217 | 3017 | 3055 | 4.81 | cps |
| Phosphorus | 31-2 | 237 | 227 | 283 | 249 | 12.15 | cps |
| Potassium | 39-2 | 96795 | 97778 | 97412 | 97328 | 0.51 | cps |
| Rhodium | 103-1 | 15160082 | 14782991 | 14673069 | 14872048 | 1.72 | cps |
| Rhodium | 103-2 | 6142732 | 6108689 | 6137901 | 6129774 | 0.30 | cps |
| Scandium | 45-1 | 11218829 | 11334741 | 11185468 | 11246346 | 0.70 | cps |
| Scandium | 45-2 | 234368 | 234026 | 232668 | 233688 | 0.38 | cps |
| Selenium | 82-1 | 1360 | 1320 | 1320 | 1333 | 1.73 | cps |
| Selenium | 77-2 | 10 | 27 | 27 | 21 | 45.58 | cps |
| Selenium | 78-2 | 90 | 100 | 63 | 84 | 22.45 | cps |
| Silicon | 28-1 | 743633 | 745218 | 743436 | 744096 | 0.13 | cps |
| Silver | 107-1 | 21834 | 22178 | 21724 | 21912 | 1.08 | cps |
| Silver | 109-1 | 20656 | 20739 | 20362 | 20586 | 0.96 | cps |
| Sodium | 23-2 | 350301 | 351614 | 347612 | 349842 | 0.58 | cps |
| Strontium | 86-1 | 6438 | 6465 | 6058 | 6320 | 3.60 | cps |
| Strontium | 88-1 | 50555 | 50635 | 50531 | 50573 | 0.11 | cps |
| Sulfur | 34-1 | 822207 | 818598 | 820516 | 820440 | 0.22 | cps |
| Terbium | 159-1 | 19467270 | 19182427 | 19664769 | 19438155 | 1.25 | cps |
| Terbium | 159-2 | 7094421 | 6929271 | 7086172 | 7036621 | 1.32 | cps |
| Thallium | 203-1 | 16410 | 16547 | 16951 | 16636 | 1.69 | cps |
| Thallium | 205-1 | 40817 | 41045 | 40439 | 40767 | 0.75 | cps |
| Tin | 118-1 | 72933 | 74162 | 71988 | 73028 | 1.49 | cps |
| Titanium | 47-1 | 14547 | 14671 | 14931 | 14717 | 1.33 | cps |
| Uranium | 238-1 | 52066 | 51347 | 51895 | 51769 | 0.73 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:12:13 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 16763 | 16960 | 17564 | 17096 | 2.44 | cps |
| Ytterbium | 172-1 | 87 | 107 | 87 | 93 | 12.37 | cps |
| Ytterbium | 172-2 | 30 | 43 | 47 | 40 | 22.05 | cps |
| Ytterbium | 176-1 | 1910 | 1960 | 1974 | 1948 | 1.71 | cps |
| Ytterbium | 176-2 | 460 | 417 | 407 | 428 | 6.63 | cps |
| Yttrium | 89-1 | 27694785 | 27198152 | 27144286 | 27345741 | 1.11 | cps |
| Yttrium | 89-2 | 2134364 | 2127309 | 2123293 | 2128322 | 0.26 | cps |
| Zinc | 66-2 | 3877 | 3554 | 3914 | 3782 | 5.24 | cps |
| Zirconium | 90-1 | 31506 | 31729 | 30797 | 31344 | 1.55 | cps |
| Zirconium | 91-1 | 6792 | 6938 | 6772 | 6834 | 1.33 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 76902 | 75967 | 77488 | 76785 | 1.00 | cps |
| Antimony | 121-1 | 807781 | 824975 | 824898 | 819218 | 1.21 | cps |
| Arsenic | 75-2 | 17931 | 18365 | 17871 | 18056 | 1.49 | cps |
| Barium | 135-1 | 933796 | 944802 | 952074 | 943557 | 0.98 | cps |
| Barium | 137-1 | 1700084 | 1692808 | 1700792 | 1697894 | 0.26 | cps |
| Beryllium | 9-1 | 325587 | 323914 | 327765 | 325755 | 0.59 | cps |
| Bismuth | 209-1 | 11835766 | 12161966 | 11970761 | 11989498 | 1.37 | cps |
| Bismuth | 209-2 | 5398042 | 5514635 | 5447123 | 5453267 | 1.07 | cps |
| Bromine | 81-1 | 3914 | 4184 | 4117 | 4072 | 3.46 | cps |
| Cadmium | 108-1 | 16550 | 16540 | 16607 | 16566 | 0.22 | cps |
| Cadmium | 106-1 | 30931 | 31763 | 31596 | 31430 | 1.40 | cps |
| Cadmium | 111-1 | 206016 | 210430 | 208335 | 208260 | 1.06 | cps |
| Calcium | 43-1 | 279484 | 284574 | 284769 | 282942 | 1.06 | cps |
| Calcium | 44-1 | 4608063 | 4661574 | 4639445 | 4636360 | 0.58 | cps |
| Carbon | 12-1 | 6692741 | 6705147 | 6561408 | 6653099 | 1.20 | cps |
| Carbon | 12-2 | 43835 | 43504 | 44149 | 43830 | 0.74 | cps |
| Chlorine | 35-1 | 162871 | 164516 | 164253 | 163880 | 0.54 | cps |
| Chlorine | 35-2 | 647 | 703 | 710 | 687 | 5.07 | cps |
| Chromium | 52-2 | 199004 | 200509 | 199569 | 199694 | 0.38 | cps |
| Cobalt | 59-2 | 383697 | 382332 | 381978 | 382669 | 0.24 | cps |
| Copper | 63-2 | 3090471 | 3054817 | 3051463 | 3065584 | 0.71 | cps |
| Dysprosium | 156-1 | 40 | 13 | 20 | 24 | 56.78 | cps |
| Dysprosium | 156-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Erbium | 164-1 | 117 | 127 | 100 | 114 | 11.77 | cps |
| Erbium | 164-2 | 30 | 30 | 40 | 33 | 17.32 | cps |
| Gadolinium | 160-1 | 107 | 127 | 117 | 117 | 8.57 | cps |
| Gadolinium | 160-2 | 40 | 47 | 37 | 41 | 12.39 | cps |
| Holmium | 165-1 | 19012369 | 19190135 | 18718934 | 18973813 | 1.25 | cps |
| Holmium | 165-2 | 7191441 | 7246191 | 7200843 | 7212825 | 0.41 | cps |
| Indium | 115-1 | 15301153 | 15311431 | 15203623 | 15272069 | 0.39 | cps |
| Indium | 115-2 | 1665123 | 1692534 | 1671187 | 1676281 | 0.86 | cps |
| Iron | 54-2 | 416819 | 413441 | 411730 | 413997 | 0.63 | cps |
| Iron | 56-2 | 7660377 | 7624959 | 7593015 | 7626117 | 0.44 | cps |
| Iron | 57-2 | 189643 | 188968 | 187253 | 188621 | 0.65 | cps |
| Krypton | 83-1 | 297 | 277 | 283 | 286 | 3.57 | cps |
| Lead | 206-1 | 3296562 | 3454928 | 3273388 | 3341626 | 2.96 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2896020 | 2895300 | 2841789 | 2877703 | 1.08 | cps |
| Lead | 208-1 | 13149489 | 13281827 | 13159514 | 13196943 | 0.56 | cps |
| Lithium | 6-1 | 8939248 | 9047798 | 8934731 | 8973926 | 0.71 | cps |
| Magnesium | 24-2 | 1406035 | 1412346 | 1393147 | 1403843 | 0.70 | cps |
| Manganese | 55-2 | 819890 | 814643 | 809044 | 814526 | 0.67 | cps |
| Molybdenum | 94-1 | 2943652 | 2953261 | 3021521 | 2972811 | 1.43 | cps |
| Molybdenum | 95-1 | 4165845 | 4196403 | 4248030 | 4203426 | 0.99 | cps |
| Molybdenum | 96-1 | 4645531 | 4652966 | 4587662 | 4628720 | 0.77 | cps |
| Molybdenum | 97-1 | 2634805 | 2634740 | 2629880 | 2633142 | 0.11 | cps |
| Molybdenum | 98-1 | 6823703 | 6758403 | 6859083 | 6813730 | 0.75 | cps |
| Neodymium | 150-1 | 67 | 47 | 80 | 64 | 26.03 | cps |
| Neodymium | 150-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Nickel | 60-2 | 112762 | 111287 | 112187 | 112079 | 0.66 | cps |
| Phosphorus | 31-2 | 3867 | 3821 | 4297 | 3995 | 6.58 | cps |
| Potassium | 39-2 | 397581 | 403941 | 401401 | 400974 | 0.80 | cps |
| Rhodium | 103-1 | 14638919 | 14767211 | 14665422 | 14690517 | 0.46 | cps |
| Rhodium | 103-2 | 6122866 | 6103946 | 6135153 | 6120655 | 0.26 | cps |
| Scandium | 45-1 | 11138606 | 11168416 | 11104516 | 11137179 | 0.29 | cps |
| Scandium | 45-2 | 227896 | 234682 | 231418 | 231332 | 1.47 | cps |
| Selenium | 82-1 | 12296 | 12729 | 12756 | 12594 | 2.05 | cps |
| Selenium | 77-2 | 247 | 233 | 263 | 248 | 6.07 | cps |
| Selenium | 78-2 | 767 | 827 | 793 | 796 | 3.78 | cps |
| Silicon | 28-1 | 1333068 | 1325585 | 1333664 | 1330773 | 0.34 | cps |
| Silver | 107-1 | 1022429 | 1040561 | 1049033 | 1037341 | 1.31 | cps |
| Silver | 109-1 | 971385 | 990638 | 1001329 | 987784 | 1.54 | cps |
| Sodium | 23-2 | 2824033 | 2802814 | 2839326 | 2822058 | 0.65 | cps |
| Strontium | 86-1 | 261062 | 264339 | 264933 | 263444 | 0.79 | cps |
| Strontium | 88-1 | 2344980 | 2351538 | 2393725 | 2363414 | 1.12 | cps |
| Sulfur | 34-1 | 899444 | 903884 | 916205 | 906511 | 0.96 | cps |
| Terbium | 159-1 | 19335883 | 19369718 | 19484296 | 19396632 | 0.40 | cps |
| Terbium | 159-2 | 7073252 | 7160590 | 7048179 | 7094007 | 0.83 | cps |
| Thallium | 203-1 | 764074 | 773910 | 773243 | 770409 | 0.71 | cps |
| Thallium | 205-1 | 1930439 | 1971279 | 1914521 | 1938746 | 1.51 | cps |
| Tin | 118-1 | 642239 | 650003 | 654539 | 648927 | 0.96 | cps |
| Titanium | 47-1 | 1339447 | 1329370 | 1364097 | 1344305 | 1.33 | cps |
| Uranium | 238-1 | 2578460 | 2541458 | 2594587 | 2571502 | 1.06 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:15:34 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 155130 | 154079 | 154797 | 154669 | 0.35 | cps |
| Ytterbium | 172-1 | 93 | 103 | 150 | 116 | 26.17 | cps |
| Ytterbium | 172-2 | 53 | 50 | 43 | 49 | 10.42 | cps |
| Ytterbium | 176-1 | 5641 | 5561 | 5635 | 5612 | 0.79 | cps |
| Ytterbium | 176-2 | 1820 | 1767 | 1927 | 1838 | 4.43 | cps |
| Yttrium | 89-1 | 27065522 | 27259007 | 26710217 | 27011582 | 1.03 | cps |
| Yttrium | 89-2 | 2144967 | 2116402 | 2117085 | 2126151 | 0.77 | cps |
| Zinc | 66-2 | 331249 | 331555 | 326534 | 329779 | 0.85 | cps |
| Zirconium | 90-1 | 1460893 | 1451483 | 1463502 | 1458626 | 0.43 | cps |
| Zirconium | 91-1 | 309048 | 314236 | 312497 | 311927 | 0.85 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 193877 | 190956 | 191372 | 192068 | 0.82 | cps |
| Antimony | 121-1 | 2169553 | 2194597 | 2137857 | 2167335 | 1.31 | cps |
| Arsenic | 75-2 | 45433 | 45530 | 44804 | 45256 | 0.87 | cps |
| Barium | 135-1 | 2511539 | 2544399 | 2471544 | 2509160 | 1.45 | cps |
| Barium | 137-1 | 4318725 | 4301247 | 4219059 | 4279677 | 1.24 | cps |
| Beryllium | 9-1 | 806154 | 806252 | 809287 | 807231 | 0.22 | cps |
| Bismuth | 209-1 | 11877260 | 11853650 | 11862171 | 11864361 | 0.10 | cps |
| Bismuth | 209-2 | 5447065 | 5415724 | 5363961 | 5408916 | 0.78 | cps |
| Bromine | 81-1 | 3894 | 3907 | 3917 | 3906 | 0.30 | cps |
| Cadmium | 108-1 | 40540 | 41439 | 41910 | 41296 | 1.69 | cps |
| Cadmium | 106-1 | 64584 | 65692 | 66466 | 65580 | 1.44 | cps |
| Cadmium | 111-1 | 511059 | 517407 | 513664 | 514043 | 0.62 | cps |
| Calcium | 43-1 | 699980 | 706962 | 702906 | 703283 | 0.50 | cps |
| Calcium | 44-1 | 11516512 | 11474933 | 11481604 | 11491016 | 0.19 | cps |
| Carbon | 12-1 | 6874349 | 6811520 | 6840031 | 6841967 | 0.46 | cps |
| Carbon | 12-2 | 46015 | 45126 | 45440 | 45527 | 0.99 | cps |
| Chlorine | 35-1 | 163724 | 165187 | 164152 | 164354 | 0.46 | cps |
| Chlorine | 35-2 | 653 | 743 | 703 | 700 | 6.44 | cps |
| Chromium | 52-2 | 499047 | 491595 | 494763 | 495135 | 0.76 | cps |
| Cobalt | 59-2 | 954855 | 945248 | 944294 | 948132 | 0.62 | cps |
| Copper | 63-2 | 7624644 | 7489549 | 7470749 | 7528314 | 1.12 | cps |
| Dysprosium | 156-1 | 57 | 43 | 40 | 47 | 18.90 | cps |
| Dysprosium | 156-2 | 17 | 17 | 7 | 13 | 43.29 | cps |
| Erbium | 164-1 | 107 | 110 | 153 | 123 | 21.11 | cps |
| Erbium | 164-2 | 47 | 47 | 40 | 44 | 8.66 | cps |
| Gadolinium | 160-1 | 127 | 103 | 143 | 124 | 16.15 | cps |
| Gadolinium | 160-2 | 37 | 27 | 63 | 42 | 44.88 | cps |
| Holmium | 165-1 | 19262056 | 19286355 | 19143761 | 19230724 | 0.40 | cps |
| Holmium | 165-2 | 7225447 | 7350370 | 7338438 | 7304752 | 0.94 | cps |
| Indium | 115-1 | 15820383 | 15281839 | 15120666 | 15407629 | 2.38 | cps |
| Indium | 115-2 | 1666782 | 1677667 | 1641719 | 1662056 | 1.11 | cps |
| Iron | 54-2 | 1028540 | 1036762 | 1025861 | 1030388 | 0.55 | cps |
| Iron | 56-2 | 19166762 | 19227368 | 19128350 | 19174160 | 0.26 | cps |
| Iron | 57-2 | 468557 | 467330 | 469415 | 468434 | 0.22 | cps |
| Krypton | 83-1 | 307 | 327 | 253 | 296 | 12.83 | cps |
| Lead | 206-1 | 8223248 | 8126124 | 8332885 | 8227419 | 1.26 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 7123233 | 7095846 | 7175695 | 7131591 | 0.57 | cps |
| Lead | 208-1 | 32692933 | 32655559 | 32893121 | 32747204 | 0.39 | cps |
| Lithium | 6-1 | 9113070 | 8828403 | 8946927 | 8962800 | 1.60 | cps |
| Magnesium | 24-2 | 3517181 | 3512300 | 3482847 | 3504109 | 0.53 | cps |
| Manganese | 55-2 | 2116544 | 2142110 | 2091866 | 2116840 | 1.19 | cps |
| Molybdenum | 94-1 | 7479824 | 7388772 | 7400807 | 7423135 | 0.67 | cps |
| Molybdenum | 95-1 | 10765388 | 10459877 | 10390353 | 10538539 | 1.89 | cps |
| Molybdenum | 96-1 | 11520461 | 11631956 | 11641710 | 11598042 | 0.58 | cps |
| Molybdenum | 97-1 | 6509587 | 6554995 | 6668857 | 6577813 | 1.25 | cps |
| Molybdenum | 98-1 | 17093170 | 17121919 | 17142454 | 17119181 | 0.14 | cps |
| Neodymium | 150-1 | 193 | 177 | 163 | 178 | 8.45 | cps |
| Neodymium | 150-2 | 10 | 17 | 13 | 13 | 25.01 | cps |
| Nickel | 60-2 | 282822 | 280594 | 280322 | 281246 | 0.49 | cps |
| Phosphorus | 31-2 | 9740 | 9597 | 9870 | 9736 | 1.41 | cps |
| Potassium | 39-2 | 990467 | 986919 | 997234 | 991540 | 0.53 | cps |
| Rhodium | 103-1 | 14448862 | 14641091 | 14839595 | 14643183 | 1.33 | cps |
| Rhodium | 103-2 | 5992628 | 6011513 | 5953737 | 5985959 | 0.49 | cps |
| Scandium | 45-1 | 11289297 | 10982245 | 10814854 | 11028798 | 2.18 | cps |
| Scandium | 45-2 | 232390 | 229957 | 230320 | 230889 | 0.57 | cps |
| Selenium | 82-1 | 31379 | 32198 | 31877 | 31818 | 1.30 | cps |
| Selenium | 77-2 | 573 | 607 | 597 | 592 | 2.89 | cps |
| Selenium | 78-2 | 1987 | 2157 | 2014 | 2052 | 4.46 | cps |
| Silicon | 28-1 | 2383960 | 2353096 | 2358571 | 2365209 | 0.70 | cps |
| Silver | 107-1 | 2773607 | 2727474 | 2677264 | 2726115 | 1.77 | cps |
| Silver | 109-1 | 2564647 | 2564938 | 2555087 | 2561557 | 0.22 | cps |
| Sodium | 23-2 | 7058828 | 6887322 | 6922784 | 6956311 | 1.30 | cps |
| Strontium | 86-1 | 660068 | 662981 | 666273 | 663107 | 0.47 | cps |
| Strontium | 88-1 | 6053057 | 5909576 | 5923227 | 5961953 | 1.33 | cps |
| Sulfur | 34-1 | 1013142 | 1003637 | 1010874 | 1009218 | 0.49 | cps |
| Terbium | 159-1 | 19918388 | 19606890 | 19589411 | 19704896 | 0.94 | cps |
| Terbium | 159-2 | 7074712 | 7057285 | 7074950 | 7068982 | 0.14 | cps |
| Thallium | 203-1 | 2014968 | 1984472 | 2034057 | 2011166 | 1.24 | cps |
| Thallium | 205-1 | 4790188 | 4721904 | 4833609 | 4781900 | 1.18 | cps |
| Tin | 118-1 | 1683997 | 1663466 | 1668204 | 1671889 | 0.64 | cps |
| Titanium | 47-1 | 3358030 | 3375340 | 3297974 | 3343782 | 1.21 | cps |
| Uranium | 238-1 | 6435390 | 6545257 | 6403118 | 6461255 | 1.15 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:18:35 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 389348 | 387200 | 388562 | 388370 | 0.28 | cps |
| Ytterbium | 172-1 | 143 | 110 | 107 | 120 | 16.90 | cps |
| Ytterbium | 172-2 | 33 | 77 | 83 | 64 | 42.13 | cps |
| Ytterbium | 176-1 | 10878 | 10524 | 10808 | 10737 | 1.74 | cps |
| Ytterbium | 176-2 | 3917 | 3897 | 3967 | 3927 | 0.92 | cps |
| Yttrium | 89-1 | 27637518 | 27440120 | 27151227 | 27409622 | 0.89 | cps |
| Yttrium | 89-2 | 2127871 | 2124015 | 2128684 | 2126857 | 0.12 | cps |
| Zinc | 66-2 | 831155 | 826060 | 821682 | 826299 | 0.57 | cps |
| Zirconium | 90-1 | 3648040 | 3683064 | 3737210 | 3689438 | 1.22 | cps |
| Zirconium | 91-1 | 787803 | 787470 | 793271 | 789515 | 0.41 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 381059 | 381194 | 382460 | 381571 | 0.20 | cps |
| Antimony | 121-1 | 4419238 | 4461247 | 4466045 | 4448844 | 0.58 | cps |
| Arsenic | 75-2 | 90974 | 90133 | 90729 | 90612 | 0.48 | cps |
| Barium | 135-1 | 4980895 | 4972792 | 5003519 | 4985736 | 0.32 | cps |
| Barium | 137-1 | 8541745 | 8519364 | 8585601 | 8548903 | 0.39 | cps |
| Beryllium | 9-1 | 1655284 | 1622470 | 1662153 | 1646635 | 1.29 | cps |
| Bismuth | 209-1 | 11613407 | 11899130 | 12074759 | 11862432 | 1.96 | cps |
| Bismuth | 209-2 | 5284012 | 5325879 | 5318270 | 5309387 | 0.42 | cps |
| Bromine | 81-1 | 4054 | 3931 | 4114 | 4033 | 2.32 | cps |
| Cadmium | 108-1 | 83011 | 83980 | 83517 | 83503 | 0.58 | cps |
| Cadmium | 106-1 | 123836 | 124983 | 125793 | 124871 | 0.79 | cps |
| Cadmium | 111-1 | 1014249 | 1037527 | 1028731 | 1026836 | 1.14 | cps |
| Calcium | 43-1 | 1448233 | 1455161 | 1439301 | 1447565 | 0.55 | cps |
| Calcium | 44-1 | 22860559 | 23504805 | 22951699 | 23105688 | 1.51 | cps |
| Carbon | 12-1 | 7008747 | 7090515 | 7073649 | 7057637 | 0.61 | cps |
| Carbon | 12-2 | 48192 | 47553 | 47747 | 47831 | 0.68 | cps |
| Chlorine | 35-1 | 171994 | 172147 | 170824 | 171655 | 0.42 | cps |
| Chlorine | 35-2 | 710 | 663 | 767 | 713 | 7.25 | cps |
| Chromium | 52-2 | 984754 | 982090 | 987478 | 984774 | 0.27 | cps |
| Cobalt | 59-2 | 1949773 | 1937294 | 1938637 | 1941901 | 0.35 | cps |
| Copper | 63-2 | 15035412 | 14897120 | 14874844 | 14935792 | 0.58 | cps |
| Dysprosium | 156-1 | 113 | 103 | 90 | 102 | 11.45 | cps |
| Dysprosium | 156-2 | 23 | 17 | 7 | 16 | 53.90 | cps |
| Erbium | 164-1 | 147 | 130 | 160 | 146 | 10.33 | cps |
| Erbium | 164-2 | 53 | 57 | 67 | 59 | 11.79 | cps |
| Gadolinium | 160-1 | 160 | 163 | 183 | 169 | 7.47 | cps |
| Gadolinium | 160-2 | 60 | 27 | 23 | 37 | 55.30 | cps |
| Holmium | 165-1 | 18675645 | 19078671 | 19463348 | 19072555 | 2.07 | cps |
| Holmium | 165-2 | 7188799 | 7196428 | 7298354 | 7227861 | 0.85 | cps |
| Indium | 115-1 | 14890826 | 15070943 | 15427654 | 15129808 | 1.81 | cps |
| Indium | 115-2 | 1643980 | 1635226 | 1623831 | 1634346 | 0.62 | cps |
| Iron | 54-2 | 2140432 | 2078215 | 2092129 | 2103592 | 1.55 | cps |
| Iron | 56-2 | 38666761 | 38402314 | 37688142 | 38252406 | 1.32 | cps |
| Iron | 57-2 | 945072 | 932857 | 927664 | 935198 | 0.96 | cps |
| Krypton | 83-1 | 233 | 240 | 217 | 230 | 5.22 | cps |
| Lead | 206-1 | 16632424 | 16721463 | 16874753 | 16742880 | 0.73 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 14199802 | 14359754 | 14482513 | 14347356 | 0.99 | cps |
| Lead | 208-1 | 65906237 | 66069131 | 66833915 | 66269761 | 0.75 | cps |
| Lithium | 6-1 | 8844325 | 8711131 | 8839599 | 8798352 | 0.86 | cps |
| Magnesium | 24-2 | 6893702 | 6830540 | 6961069 | 6895104 | 0.95 | cps |
| Manganese | 55-2 | 4170857 | 4156464 | 4156385 | 4161235 | 0.20 | cps |
| Molybdenum | 94-1 | 15007301 | 14845417 | 15143077 | 14998598 | 0.99 | cps |
| Molybdenum | 95-1 | 21112342 | 21261318 | 21272688 | 21215449 | 0.42 | cps |
| Molybdenum | 96-1 | 23177749 | 23352015 | 23149916 | 23226560 | 0.47 | cps |
| Molybdenum | 97-1 | 13119514 | 13235765 | 13117499 | 13157593 | 0.51 | cps |
| Molybdenum | 98-1 | 34436208 | 34190959 | 34126944 | 34251371 | 0.48 | cps |
| Neodymium | 150-1 | 293 | 317 | 277 | 296 | 6.80 | cps |
| Neodymium | 150-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Nickel | 60-2 | 555487 | 554863 | 554589 | 554980 | 0.08 | cps |
| Phosphorus | 31-2 | 19850 | 19353 | 20164 | 19789 | 2.07 | cps |
| Potassium | 39-2 | 2049243 | 1999633 | 1989388 | 2012755 | 1.59 | cps |
| Rhodium | 103-1 | 14035049 | 14335741 | 14421507 | 14264099 | 1.42 | cps |
| Rhodium | 103-2 | 5915791 | 5877862 | 5838446 | 5877366 | 0.66 | cps |
| Scandium | 45-1 | 10778364 | 10913377 | 10980519 | 10890753 | 0.95 | cps |
| Scandium | 45-2 | 229693 | 226490 | 229506 | 228563 | 0.79 | cps |
| Selenium | 82-1 | 64147 | 64452 | 64344 | 64314 | 0.24 | cps |
| Selenium | 77-2 | 1197 | 1257 | 1243 | 1232 | 2.56 | cps |
| Selenium | 78-2 | 4141 | 4044 | 4114 | 4100 | 1.22 | cps |
| Silicon | 28-1 | 4019170 | 4097336 | 4077675 | 4064727 | 1.00 | cps |
| Silver | 107-1 | 5405798 | 5395142 | 5456702 | 5419214 | 0.61 | cps |
| Silver | 109-1 | 5094150 | 5090509 | 5127782 | 5104147 | 0.40 | cps |
| Sodium | 23-2 | 13899727 | 13566310 | 13840921 | 13768986 | 1.29 | cps |
| Strontium | 86-1 | 1337419 | 1332866 | 1340730 | 1337005 | 0.30 | cps |
| Strontium | 88-1 | 11764634 | 11889991 | 11706445 | 11787023 | 0.80 | cps |
| Sulfur | 34-1 | 1215129 | 1207730 | 1198612 | 1207157 | 0.69 | cps |
| Terbium | 159-1 | 19326943 | 19237876 | 19995523 | 19520114 | 2.12 | cps |
| Terbium | 159-2 | 6959400 | 7011956 | 7027230 | 6999528 | 0.51 | cps |
| Thallium | 203-1 | 4090005 | 4092546 | 4134062 | 4105538 | 0.60 | cps |
| Thallium | 205-1 | 9663443 | 9821273 | 9728497 | 9737738 | 0.81 | cps |
| Tin | 118-1 | 3352786 | 3314541 | 3395184 | 3354170 | 1.20 | cps |
| Titanium | 47-1 | 6570723 | 6797782 | 6685795 | 6684766 | 1.70 | cps |
| Uranium | 238-1 | 13089032 | 13126832 | 13214494 | 13143453 | 0.49 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:21:31 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 775431 | 775648 | 776082 | 775720 | 0.04 | cps |
| Ytterbium | 172-1 | 177 | 137 | 193 | 169 | 17.24 | cps |
| Ytterbium | 172-2 | 43 | 70 | 57 | 57 | 23.53 | cps |
| Ytterbium | 176-1 | 20483 | 20115 | 20433 | 20344 | 0.98 | cps |
| Ytterbium | 176-2 | 7349 | 7732 | 7562 | 7548 | 2.55 | cps |
| Yttrium | 89-1 | 26733145 | 26821661 | 27182710 | 26912505 | 0.88 | cps |
| Yttrium | 89-2 | 2066380 | 2042858 | 2106914 | 2072050 | 1.56 | cps |
| Zinc | 66-2 | 1730467 | 1685408 | 1683784 | 1699887 | 1.56 | cps |
| Zirconium | 90-1 | 7359632 | 7312209 | 7438462 | 7370101 | 0.87 | cps |
| Zirconium | 91-1 | 1625969 | 1656503 | 1659039 | 1647171 | 1.12 | cps |



700

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 727753 | 723308 | 725074 | 725378 | 0.31 | cps |
| Antimony | 121-1 | 8031599 | 8154392 | 8195334 | 8127108 | 1.05 | cps |
| Arsenic | 75-2 | 172471 | 172846 | 175407 | 173575 | 0.92 | cps |
| Barium | 135-1 | 9502127 | 9612055 | 9662770 | 9592318 | 0.86 | cps |
| Barium | 137-1 | 16615159 | 16896466 | 16638979 | 16716868 | 0.93 | cps |
| Beryllium | 9-1 | 3023153 | 3083444 | 3091009 | 3065869 | 1.21 | cps |
| Bismuth | 209-1 | 11582195 | 11429356 | 11505717 | 11505756 | 0.66 | cps |
| Bismuth | 209-2 | 5049446 | 4948859 | 5090762 | 5029689 | 1.45 | cps |
| Bromine | 81-1 | 4087 | 3587 | 3707 | 3794 | 6.88 | cps |
| Cadmium | 108-1 | 157731 | 157316 | 157327 | 157458 | 0.15 | cps |
| Cadmium | 106-1 | 229136 | 231388 | 231141 | 230555 | 0.54 | cps |
| Cadmium | 111-1 | 2007686 | 1990481 | 2025456 | 2007874 | 0.87 | cps |
| Calcium | 43-1 | 2691881 | 2789869 | 2728031 | 2736594 | 1.81 | cps |
| Calcium | 44-1 | 44298696 | 44449201 | 43872994 | 44206964 | 0.68 | cps |
| Carbon | 12-1 | 7033492 | 7243901 | 7325016 | 7200803 | 2.09 | cps |
| Carbon | 12-2 | 50159 | 48988 | 49995 | 49714 | 1.28 | cps |
| Chlorine | 35-1 | 174383 | 175438 | 175995 | 175272 | 0.47 | cps |
| Chlorine | 35-2 | 733 | 703 | 743 | 727 | 2.86 | cps |
| Chromium | 52-2 | 1986624 | 1933539 | 1951569 | 1957244 | 1.38 | cps |
| Cobalt | 59-2 | 3680440 | 3661378 | 3637459 | 3659759 | 0.59 | cps |
| Copper | 63-2 | 28212889 | 28561340 | 28385672 | 28386633 | 0.61 | cps |
| Dysprosium | 156-1 | 193 | 193 | 210 | 199 | 4.84 | cps |
| Dysprosium | 156-2 | 20 | 37 | 33 | 30 | 29.40 | cps |
| Erbium | 164-1 | 207 | 203 | 173 | 194 | 9.44 | cps |
| Erbium | 164-2 | 73 | 50 | 40 | 54 | 31.42 | cps |
| Gadolinium | 160-1 | 190 | 213 | 163 | 189 | 13.24 | cps |
| Gadolinium | 160-2 | 53 | 83 | 57 | 64 | 25.51 | cps |
| Holmium | 165-1 | 18901695 | 18493068 | 18928987 | 18774584 | 1.30 | cps |
| Holmium | 165-2 | 7031421 | 6963298 | 6941002 | 6978574 | 0.67 | cps |
| Indium | 115-1 | 14877403 | 14449438 | 14617891 | 14648244 | 1.47 | cps |
| Indium | 115-2 | 1575008 | 1512139 | 1534004 | 1540384 | 2.07 | cps |
| Iron | 54-2 | 3962709 | 4012106 | 4064910 | 4013242 | 1.27 | cps |
| Iron | 56-2 | 73048947 | 72054507 | 71817714 | 72307056 | 0.90 | cps |
| Iron | 57-2 | 1853118 | 1887142 | 1861979 | 1867413 | 0.95 | cps |
| Krypton | 83-1 | 290 | 377 | 263 | 310 | 19.11 | cps |
| Lead | 206-1 | 32053124 | 32019266 | 31903926 | 31992105 | 0.24 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27491291 | 27347154 | 27891644 | 27576696 | 1.02 | cps |
| Lead | 208-1 | 126317807 | 126507011 | 127477116 | 126767311 | 0.49 | cps |
| Lithium | 6-1 | 8725884 | 8452820 | 8433873 | 8537526 | 1.91 | cps |
| Magnesium | 24-2 | 13265646 | 13040299 | 13123584 | 13143177 | 0.87 | cps |
| Manganese | 55-2 | 7926696 | 7778140 | 7824667 | 7843168 | 0.97 | cps |
| Molybdenum | 94-1 | 28696967 | 29070750 | 28841675 | 28869797 | 0.65 | cps |
| Molybdenum | 95-1 | 40650788 | 41437959 | 41113407 | 41067385 | 0.96 | cps |
| Molybdenum | 96-1 | 45015996 | 45173254 | 44873923 | 45021058 | 0.33 | cps |
| Molybdenum | 97-1 | 25328836 | 25329551 | 25289345 | 25315911 | 0.09 | cps |
| Molybdenum | 98-1 | 65634089 | 66393877 | 66560194 | 66196053 | 0.75 | cps |
| Neodymium | 150-1 | 543 | 550 | 550 | 548 | 0.70 | cps |
| Neodymium | 150-2 | 27 | 17 | 23 | 22 | 22.91 | cps |
| Nickel | 60-2 | 964537 | 973448 | 960700 | 966228 | 0.68 | cps |
| Phosphorus | 31-2 | 36255 | 36439 | 36061 | 36252 | 0.52 | cps |
| Potassium | 39-2 | 3730959 | 3738105 | 3724100 | 3731055 | 0.19 | cps |
| Rhodium | 103-1 | 13921268 | 13730898 | 13655629 | 13769265 | 0.99 | cps |
| Rhodium | 103-2 | 5654421 | 5534422 | 5562181 | 5583675 | 1.13 | cps |
| Scandium | 45-1 | 11063815 | 10568811 | 10661791 | 10764806 | 2.44 | cps |
| Scandium | 45-2 | 218499 | 212627 | 214273 | 215133 | 1.41 | cps |
| Selenium | 82-1 | 119933 | 121178 | 122290 | 121134 | 0.97 | cps |
| Selenium | 77-2 | 2310 | 2450 | 2324 | 2361 | 3.27 | cps |
| Selenium | 78-2 | 7559 | 7695 | 7846 | 7700 | 1.86 | cps |
| Silicon | 28-1 | 7081938 | 7092899 | 7210499 | 7128446 | 1.00 | cps |
| Silver | 107-1 | 10097623 | 10380950 | 10264373 | 10247648 | 1.39 | cps |
| Silver | 109-1 | 9469597 | 9709371 | 9664031 | 9614333 | 1.32 | cps |
| Sodium | 23-2 | 26735208 | 25808874 | 26123570 | 26222551 | 1.80 | cps |
| Strontium | 86-1 | 2639480 | 2710345 | 2686230 | 2678685 | 1.35 | cps |
| Strontium | 88-1 | 22863448 | 23146054 | 22889815 | 22966439 | 0.68 | cps |
| Sulfur | 34-1 | 1542131 | 1516409 | 1537580 | 1532040 | 0.90 | cps |
| Terbium | 159-1 | 19476427 | 19247160 | 19390062 | 19371216 | 0.60 | cps |
| Terbium | 159-2 | 6821970 | 6712442 | 6649922 | 6728111 | 1.29 | cps |
| Thallium | 203-1 | 7878319 | 7714251 | 7874703 | 7822425 | 1.20 | cps |
| Thallium | 205-1 | 18604544 | 18508286 | 18488872 | 18533901 | 0.33 | cps |
| Tin | 118-1 | 6343602 | 6494097 | 6598557 | 6478752 | 1.98 | cps |
| Titanium | 47-1 | 12756625 | 13049561 | 12834451 | 12880212 | 1.18 | cps |
| Uranium | 238-1 | 24700718 | 25665374 | 25619500 | 25328531 | 2.15 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:24:18 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1555910 | 1543795 | 1525819 | 1541841 | 0.98 | cps |
| Ytterbium | 172-1 | 183 | 143 | 257 | 194 | 29.56 | cps |
| Ytterbium | 172-2 | 90 | 83 | 70 | 81 | 12.55 | cps |
| Ytterbium | 176-1 | 37901 | 38262 | 38122 | 38095 | 0.48 | cps |
| Ytterbium | 176-2 | 14672 | 14592 | 14411 | 14558 | 0.92 | cps |
| Yttrium | 89-1 | 26879671 | 26689068 | 26376425 | 26648388 | 0.95 | cps |
| Yttrium | 89-2 | 2032356 | 1973964 | 1980411 | 1995577 | 1.60 | cps |
| Zinc | 66-2 | 3090335 | 3087282 | 3021703 | 3066440 | 1.26 | cps |
| Zirconium | 90-1 | 14130179 | 14359657 | 14324793 | 14271543 | 0.87 | cps |
| Zirconium | 91-1 | 3176736 | 3251431 | 3240024 | 3222730 | 1.25 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1478227 | 1490745 | 1475104 | 1481359 | 0.56 | cps |
| Antimony | 121-1 | 15907673 | 16086655 | 16293804 | 16096044 | 1.20 | cps |
| Arsenic | 75-2 | 347031 | 347402 | 347645 | 347359 | 0.09 | cps |
| Barium | 135-1 | 18865895 | 19081466 | 19373907 | 19107089 | 1.33 | cps |
| Barium | 137-1 | 32713920 | 33547877 | 33287565 | 33183121 | 1.29 | cps |
| Beryllium | 9-1 | 5966290 | 5970200 | 6002875 | 5979788 | 0.34 | cps |
| Bismuth | 209-1 | 11500362 | 11378110 | 11343770 | 11407414 | 0.72 | cps |
| Bismuth | 209-2 | 5047653 | 5031844 | 5011660 | 5030385 | 0.36 | cps |
| Bromine | 81-1 | 4027 | 4074 | 3944 | 4015 | 1.64 | cps |
| Cadmium | 108-1 | 313042 | 317158 | 314054 | 314751 | 0.68 | cps |
| Cadmium | 106-1 | 445752 | 450501 | 455094 | 450449 | 1.04 | cps |
| Cadmium | 111-1 | 3934869 | 3987633 | 4003151 | 3975218 | 0.90 | cps |
| Calcium | 43-1 | 5326185 | 5392213 | 5507480 | 5408626 | 1.70 | cps |
| Calcium | 44-1 | 87272235 | 88191302 | 88996792 | 88153443 | 0.98 | cps |
| Carbon | 12-1 | 7888259 | 8179511 | 8221453 | 8096408 | 2.24 | cps |
| Carbon | 12-2 | 57833 | 58128 | 57639 | 57867 | 0.43 | cps |
| Chlorine | 35-1 | 194829 | 197164 | 200883 | 197625 | 1.54 | cps |
| Chlorine | 35-2 | 923 | 840 | 867 | 877 | 4.86 | cps |
| Chromium | 52-2 | 3884849 | 3926358 | 3794061 | 3868423 | 1.75 | cps |
| Cobalt | 59-2 | 7252536 | 7210068 | 7259606 | 7240737 | 0.37 | cps |
| Copper | 63-2 | 54925471 | 54897134 | 55734334 | 55185646 | 0.86 | cps |
| Dysprosium | 156-1 | 283 | 357 | 347 | 329 | 12.09 | cps |
| Dysprosium | 156-2 | 63 | 43 | 70 | 59 | 23.57 | cps |
| Erbium | 164-1 | 220 | 263 | 277 | 253 | 11.70 | cps |
| Erbium | 164-2 | 83 | 103 | 60 | 82 | 26.38 | cps |
| Gadolinium | 160-1 | 237 | 227 | 260 | 241 | 7.10 | cps |
| Gadolinium | 160-2 | 57 | 93 | 83 | 78 | 24.37 | cps |
| Holmium | 165-1 | 18892438 | 18834016 | 18792289 | 18839581 | 0.27 | cps |
| Holmium | 165-2 | 7080777 | 7083308 | 7169958 | 7111348 | 0.71 | cps |
| Indium | 115-1 | 14536549 | 14542521 | 14592191 | 14557087 | 0.21 | cps |
| Indium | 115-2 | 1530754 | 1538144 | 1503099 | 1523999 | 1.21 | cps |
| Iron | 54-2 | 7794851 | 7808987 | 7948302 | 7850713 | 1.08 | cps |
| Iron | 56-2 | 141539905 | 142594408 | 141166445 | 141766919 | 0.52 | cps |
| Iron | 57-2 | 3695126 | 3669716 | 3573579 | 3646140 | 1.76 | cps |
| Krypton | 83-1 | 283 | 333 | 267 | 294 | 11.78 | cps |
| Lead | 206-1 | 62484467 | 62949192 | 63782509 | 63072056 | 1.04 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 53857091 | 54405836 | 54647956 | 54303628 | 0.75 | cps |
| Lead | 208-1 | 249516203 | 252277136 | 252779603 | 251524314 | 0.70 | cps |
| Lithium | 6-1 | 8490599 | 8333754 | 8275242 | 8366532 | 1.33 | cps |
| Magnesium | 24-2 | 25617554 | 26083670 | 25771685 | 25824303 | 0.92 | cps |
| Manganese | 55-2 | 15824795 | 15678609 | 15717569 | 15740325 | 0.48 | cps |
| Molybdenum | 94-1 | 56493969 | 57868816 | 57331447 | 57231411 | 1.21 | cps |
| Molybdenum | 95-1 | 81228515 | 81241000 | 82365267 | 81611594 | 0.80 | cps |
| Molybdenum | 96-1 | 90332749 | 89159999 | 90884615 | 90125788 | 0.98 | cps |
| Molybdenum | 97-1 | 51047141 | 50345018 | 50960299 | 50784153 | 0.75 | cps |
| Molybdenum | 98-1 | 132223608 | 133286628 | 131936935 | 132482390 | 0.54 | cps |
| Neodymium | 150-1 | 1300 | 1077 | 1217 | 1198 | 9.42 | cps |
| Neodymium | 150-2 | 43 | 43 | 43 | 43 | 0.00 | cps |
| Nickel | 60-2 | 2020771 | 2000205 | 2025026 | 2015334 | 0.66 | cps |
| Phosphorus | 31-2 | 71384 | 72480 | 71344 | 71736 | 0.90 | cps |
| Potassium | 39-2 | 7465606 | 7562649 | 7420809 | 7483021 | 0.97 | cps |
| Rhodium | 103-1 | 13621097 | 13356727 | 13479736 | 13485853 | 0.98 | cps |
| Rhodium | 103-2 | 5553290 | 5558051 | 5568447 | 5559929 | 0.14 | cps |
| Scandium | 45-1 | 10601975 | 10574972 | 10654746 | 10610564 | 0.38 | cps |
| Scandium | 45-2 | 222625 | 220469 | 220681 | 221259 | 0.54 | cps |
| Selenium | 82-1 | 238832 | 240033 | 243009 | 240625 | 0.89 | cps |
| Selenium | 77-2 | 4524 | 4451 | 4311 | 4429 | 2.45 | cps |
| Selenium | 78-2 | 15348 | 15652 | 15582 | 15528 | 1.02 | cps |
| Silicon | 28-1 | 13213174 | 13251026 | 13020754 | 13161651 | 0.94 | cps |
| Silver | 107-1 | 20086364 | 20145731 | 20182981 | 20138359 | 0.24 | cps |
| Silver | 109-1 | 19026341 | 18764733 | 18898842 | 18896639 | 0.69 | cps |
| Sodium | 23-2 | 51830029 | 52090336 | 51002531 | 51640965 | 1.10 | cps |
| Strontium | 86-1 | 5219753 | 5362695 | 5245694 | 5276047 | 1.44 | cps |
| Strontium | 88-1 | 45755314 | 45963693 | 45604576 | 45774528 | 0.39 | cps |
| Sulfur | 34-1 | 2219528 | 2247102 | 2216188 | 2227606 | 0.76 | cps |
| Terbium | 159-1 | 19255737 | 18936896 | 19373706 | 19188780 | 1.18 | cps |
| Terbium | 159-2 | 6799196 | 6883486 | 6790911 | 6824531 | 0.75 | cps |
| Thallium | 203-1 | 15399515 | 15463684 | 15541301 | 15468167 | 0.46 | cps |
| Thallium | 205-1 | 36949323 | 36725365 | 37178799 | 36951163 | 0.61 | cps |
| Tin | 118-1 | 12716397 | 12825915 | 12882971 | 12808428 | 0.66 | cps |
| Titanium | 47-1 | 25815693 | 25659760 | 25777973 | 25751142 | 0.32 | cps |
| Uranium | 238-1 | 51111966 | 52042983 | 51006356 | 51387101 | 1.11 | cps |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:27:05 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3062741 | 3048036 | 3090576 | 3067118 | 0.70 | cps |
| Ytterbium | 172-1 | 203 | 310 | 267 | 260 | 20.63 | cps |
| Ytterbium | 172-2 | 127 | 87 | 87 | 100 | 23.09 | cps |
| Ytterbium | 176-1 | 74244 | 75390 | 74371 | 74668 | 0.84 | cps |
| Ytterbium | 176-2 | 27936 | 28802 | 28180 | 28306 | 1.58 | cps |
| Yttrium | 89-1 | 26853554 | 26529204 | 25938540 | 26440433 | 1.75 | cps |
| Yttrium | 89-2 | 2030607 | 2037754 | 2006209 | 2024857 | 0.82 | cps |
| Zinc | 66-2 | 5980741 | 5995489 | 5979827 | 5985352 | 0.15 | cps |
| Zirconium | 90-1 | 27928636 | 28703199 | 28526435 | 28386090 | 1.43 | cps |
| Zirconium | 91-1 | 6270988 | 6313724 | 6395916 | 6326876 | 1.00 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7111375 | 7184102 | 7096579 | 7130685 | 0.66 | cps |
| Antimony | 121-1 | 6535 | 6168 | 6161 | 6288 | 3.40 | cps |
| Arsenic | 75-2 | 243 | 223 | 210 | 226 | 7.44 | cps |
| Barium | 135-1 | 7282 | 6648 | 6952 | 6961 | 4.55 | cps |
| Barium | 137-1 | 12633 | 12566 | 12102 | 12434 | 2.32 | cps |
| Beryllium | 9-1 | 2267 | 1861 | 1941 | 2023 | 10.64 | cps |
| Bismuth | 209-1 | 9670068 | 9786847 | 9792358 | 9749757 | 0.71 | cps |
| Bismuth | 209-2 | 4450812 | 4524946 | 4476082 | 4483946 | 0.84 | cps |
| Bromine | 81-1 | 4034 | 4011 | 4047 | 4031 | 0.46 | cps |
| Cadmium | 108-1 | 183 | 230 | 187 | 200 | 13.02 | cps |
| Cadmium | 106-1 | 7129 | 7132 | 7325 | 7195 | 1.57 | cps |
| Cadmium | 111-1 | 5595 | 5558 | 5644 | 5599 | 0.77 | cps |
| Calcium | 43-1 | 25593620 | 25477560 | 25558408 | 25543196 | 0.23 | cps |
| Calcium | 44-1 | 419534207 | 422284234 | 417417994 | 419745478 | 0.58 | cps |
| Carbon | 12-1 | 6960702 | 6987123 | 7061879 | 7003235 | 0.75 | cps |
| Carbon | 12-2 | 62987 | 61150 | 61471 | 61869 | 1.59 | cps |
| Chlorine | 35-1 | 157330 | 155906 | 155033 | 156090 | 0.74 | cps |
| Chlorine | 35-2 | 723 | 657 | 693 | 691 | 4.83 | cps |
| Chromium | 52-2 | 9430 | 9707 | 9256 | 9464 | 2.40 | cps |
| Cobalt | 59-2 | 15545 | 14908 | 15121 | 15192 | 2.14 | cps |
| Copper | 63-2 | 11111 | 11418 | 11501 | 11344 | 1.81 | cps |
| Dysprosium | 156-1 | 683 | 597 | 490 | 590 | 16.41 | cps |
| Dysprosium | 156-2 | 210 | 230 | 203 | 214 | 6.47 | cps |
| Erbium | 164-1 | 737 | 740 | 743 | 740 | 0.45 | cps |
| Erbium | 164-2 | 267 | 270 | 247 | 261 | 4.83 | cps |
| Gadolinium | 160-1 | 643 | 683 | 643 | 657 | 3.52 | cps |
| Gadolinium | 160-2 | 323 | 250 | 287 | 287 | 12.79 | cps |
| Holmium | 165-1 | 17356685 | 17234881 | 17063709 | 17218425 | 0.85 | cps |
| Holmium | 165-2 | 6709295 | 6650980 | 6710052 | 6690109 | 0.51 | cps |
| Indium | 115-1 | 12978444 | 12888503 | 12686119 | 12851022 | 1.17 | cps |
| Indium | 115-2 | 1400862 | 1404760 | 1406715 | 1404112 | 0.21 | cps |
| Iron | 54-2 | 37101010 | 36692526 | 37519987 | 37104508 | 1.12 | cps |
| Iron | 56-2 | 676287577 | 676177683 | 685610176 | 679358479 | 0.80 | cps |
| Iron | 57-2 | 16953199 | 17027901 | 17233096 | 17071399 | 0.85 | cps |
| Krypton | 83-1 | 313 | 263 | 380 | 319 | 18.35 | cps |
| Lead | 206-1 | 15286 | 14758 | 14966 | 15003 | 1.77 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 12940 | 13067 | 12543 | 12850 | 2.13 | cps |
| Lead | 208-1 | 59474 | 59497 | 58332 | 59101 | 1.13 | cps |
| Lithium | 6-1 | 7415734 | 7469342 | 7465492 | 7450189 | 0.40 | cps |
| Magnesium | 24-2 | 122631098 | 123869295 | 124557435 | 123685943 | 0.79 | cps |
| Manganese | 55-2 | 6965 | 6605 | 6998 | 6856 | 3.18 | cps |
| Molybdenum | 94-1 | 24989 | 24465 | 23483 | 24312 | 3.14 | cps |
| Molybdenum | 95-1 | 12559 | 11435 | 11755 | 11916 | 4.86 | cps |
| Molybdenum | 96-1 | 16697 | 16033 | 15385 | 16038 | 4.09 | cps |
| Molybdenum | 97-1 | 7319 | 6969 | 6502 | 6930 | 5.92 | cps |
| Molybdenum | 98-1 | 18599 | 17231 | 16807 | 17546 | 5.34 | cps |
| Neodymium | 150-1 | 300 | 350 | 313 | 321 | 8.06 | cps |
| Neodymium | 150-2 | 77 | 73 | 73 | 74 | 2.59 | cps |
| Nickel | 60-2 | 6538 | 6465 | 6535 | 6513 | 0.64 | cps |
| Phosphorus | 31-2 | 123 | 83 | 127 | 111 | 21.71 | cps |
| Potassium | 39-2 | 36181777 | 36639506 | 36616581 | 36479288 | 0.71 | cps |
| Rhodium | 103-1 | 11579544 | 11707732 | 11582169 | 11623149 | 0.63 | cps |
| Rhodium | 103-2 | 4949688 | 4934688 | 5011806 | 4965394 | 0.82 | cps |
| Scandium | 45-1 | 9718644 | 9545877 | 9626464 | 9630329 | 0.90 | cps |
| Scandium | 45-2 | 203232 | 206688 | 207131 | 205683 | 1.04 | cps |
| Selenium | 82-1 | 23 | 87 | -27 | 28 | 204.49 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Silicon | 28-1 | 822249 | 809841 | 800870 | 810987 | 1.32 | cps |
| Silver | 107-1 | 2950 | 2437 | 2337 | 2575 | 12.78 | cps |
| Silver | 109-1 | 2637 | 2364 | 2194 | 2398 | 9.33 | cps |
| Sodium | 23-2 | 250896916 | 249190010 | 246315976 | 248800967 | 0.93 | cps |
| Strontium | 86-1 | 16573 | 16637 | 16597 | 16602 | 0.19 | cps |
| Strontium | 88-1 | 140324 | 139455 | 141037 | 140272 | 0.56 | cps |
| Sulfur | 34-1 | 686851 | 659894 | 649243 | 665329 | 2.91 | cps |
| Terbium | 159-1 | 17581348 | 17539916 | 17802801 | 17641355 | 0.80 | cps |
| Terbium | 159-2 | 6430702 | 6499098 | 6437983 | 6455928 | 0.58 | cps |
| Thallium | 203-1 | 1753 | 1540 | 1347 | 1547 | 13.15 | cps |
| Thallium | 205-1 | 4354 | 3754 | 3227 | 3778 | 14.93 | cps |
| Tin | 118-1 | 4324 | 4354 | 4267 | 4315 | 1.02 | cps |
| Titanium | 47-1 | 3677 | 3190 | 3277 | 3382 | 7.68 | cps |
| Uranium | 238-1 | 3597 | 2794 | 2604 | 2998 | 17.59 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:29:51 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 833 | 760 | 870 | 821 | 6.82 | cps |
| Ytterbium | 172-1 | 877 | 913 | 857 | 882 | 3.26 | cps |
| Ytterbium | 172-2 | 390 | 337 | 397 | 374 | 8.78 | cps |
| Ytterbium | 176-1 | 2250 | 2324 | 2200 | 2258 | 2.75 | cps |
| Ytterbium | 176-2 | 593 | 537 | 617 | 582 | 7.07 | cps |
| Yttrium | 89-1 | 23700940 | 23951312 | 23989650 | 23880634 | 0.66 | cps |
| Yttrium | 89-2 | 1953666 | 1953088 | 1946351 | 1951035 | 0.21 | cps |
| Zinc | 66-2 | 3050 | 2960 | 2820 | 2944 | 3.94 | cps |
| Zirconium | 90-1 | 47280 | 48367 | 47544 | 47730 | 1.19 | cps |
| Zirconium | 91-1 | 10841 | 10868 | 10517 | 10742 | 1.82 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 37776 | 38715 | 38123 | 38205 | 1.24 | cps |
| Antimony | 121-1 | 3518285 | 3467284 | 3521626 | 3502398 | 0.87 | cps |
| Arsenic | 75-2 | 75836 | 77418 | 77076 | 76777 | 1.08 | cps |
| Barium | 135-1 | 405474 | 406290 | 401357 | 404374 | 0.65 | cps |
| Barium | 137-1 | 701931 | 706011 | 709513 | 705818 | 0.54 | cps |
| Beryllium | 9-1 | 672299 | 672747 | 673484 | 672844 | 0.09 | cps |
| Bismuth | 209-1 | 12260999 | 12187452 | 12112890 | 12187113 | 0.61 | cps |
| Bismuth | 209-2 | 5504484 | 5500817 | 5457768 | 5487690 | 0.47 | cps |
| Bromine | 81-1 | 4211 | 4231 | 4137 | 4193 | 1.17 | cps |
| Cadmium | 108-1 | 43258 | 44355 | 44191 | 43934 | 1.35 | cps |
| Cadmium | 106-1 | 46378 | 46150 | 46782 | 46437 | 0.69 | cps |
| Cadmium | 111-1 | 440808 | 442064 | 443830 | 442234 | 0.34 | cps |
| Calcium | 43-1 | 130643 | 128948 | 129725 | 129772 | 0.65 | cps |
| Calcium | 44-1 | 2129571 | 2100672 | 2095750 | 2108664 | 0.87 | cps |
| Carbon | 12-1 | 7186018 | 7288253 | 7328436 | 7267569 | 1.01 | cps |
| Carbon | 12-2 | 48730 | 48095 | 48871 | 48565 | 0.85 | cps |
| Chlorine | 35-1 | 150769 | 149789 | 150556 | 150371 | 0.34 | cps |
| Chlorine | 35-2 | 653 | 577 | 560 | 597 | 8.34 | cps |
| Chromium | 52-2 | 417991 | 422083 | 415826 | 418634 | 0.76 | cps |
| Cobalt | 59-2 | 808641 | 804438 | 810610 | 807896 | 0.39 | cps |
| Copper | 63-2 | 622710 | 627512 | 632385 | 627536 | 0.77 | cps |
| Dysprosium | 156-1 | 20 | 27 | 37 | 28 | 30.20 | cps |
| Dysprosium | 156-2 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Erbium | 164-1 | 97 | 103 | 107 | 102 | 4.98 | cps |
| Erbium | 164-2 | 40 | 30 | 47 | 39 | 21.57 | cps |
| Gadolinium | 160-1 | 107 | 103 | 160 | 123 | 25.78 | cps |
| Gadolinium | 160-2 | 40 | 23 | 40 | 34 | 27.94 | cps |
| Holmium | 165-1 | 19530936 | 19363658 | 19143007 | 19345867 | 1.01 | cps |
| Holmium | 165-2 | 7188134 | 7339491 | 7366385 | 7298003 | 1.32 | cps |
| Indium | 115-1 | 15624360 | 15686694 | 15715668 | 15675574 | 0.30 | cps |
| Indium | 115-2 | 1702786 | 1716664 | 1700336 | 1706595 | 0.52 | cps |
| Iron | 54-2 | 349193 | 351250 | 348744 | 349729 | 0.38 | cps |
| Iron | 56-2 | 6352436 | 6166124 | 6346127 | 6288229 | 1.68 | cps |
| Iron | 57-2 | 154861 | 154558 | 154025 | 154481 | 0.27 | cps |
| Krypton | 83-1 | 213 | 307 | 270 | 263 | 17.86 | cps |
| Lead | 206-1 | 2841099 | 2834233 | 2884812 | 2853381 | 0.96 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2335929 | 2384811 | 2416769 | 2379170 | 1.71 | cps |
| Lead | 208-1 | 10989917 | 11171804 | 11206645 | 11122789 | 1.05 | cps |
| Lithium | 6-1 | 8999658 | 9082072 | 8941669 | 9007800 | 0.78 | cps |
| Magnesium | 24-2 | 321983 | 316866 | 318943 | 319264 | 0.81 | cps |
| Manganese | 55-2 | 167591 | 169085 | 168484 | 168387 | 0.45 | cps |
| Molybdenum | 94-1 | 24116314 | 23936361 | 24021429 | 24024701 | 0.37 | cps |
| Molybdenum | 95-1 | 41769889 | 42166579 | 42148059 | 42028176 | 0.53 | cps |
| Molybdenum | 96-1 | 45411478 | 45789256 | 45276844 | 45492526 | 0.58 | cps |
| Molybdenum | 97-1 | 26225311 | 26318973 | 25768501 | 26104262 | 1.13 | cps |
| Molybdenum | 98-1 | 67391746 | 67809506 | 66708071 | 67303107 | 0.83 | cps |
| Neodymium | 150-1 | 57 | 47 | 47 | 50 | 11.55 | cps |
| Neodymium | 150-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 221512 | 223962 | 223088 | 222854 | 0.56 | cps |
| Phosphorus | 31-2 | 120 | 83 | 123 | 109 | 20.39 | cps |
| Potassium | 39-2 | 326235 | 322972 | 326399 | 325202 | 0.59 | cps |
| Rhodium | 103-1 | 15220405 | 15005582 | 14927342 | 15051110 | 1.01 | cps |
| Rhodium | 103-2 | 6230946 | 6161092 | 6206494 | 6199511 | 0.57 | cps |
| Scandium | 45-1 | 11326349 | 11104782 | 11113400 | 11181510 | 1.12 | cps |
| Scandium | 45-2 | 233074 | 231200 | 229525 | 231266 | 0.77 | cps |
| Selenium | 82-1 | 53894 | 54071 | 54125 | 54030 | 0.22 | cps |
| Selenium | 77-2 | 1080 | 1060 | 953 | 1031 | 6.60 | cps |
| Selenium | 78-2 | 3340 | 3374 | 3340 | 3352 | 0.57 | cps |
| Silicon | 28-1 | 655127 | 656254 | 656934 | 656105 | 0.14 | cps |
| Silver | 107-1 | 1025986 | 1045902 | 1046230 | 1039373 | 1.12 | cps |
| Silver | 109-1 | 979417 | 990222 | 1006004 | 991881 | 1.35 | cps |
| Sodium | 23-2 | 1193289 | 1210260 | 1170958 | 1191502 | 1.65 | cps |
| Strontium | 86-1 | 2845266 | 2867487 | 2825536 | 2846096 | 0.74 | cps |
| Strontium | 88-1 | 24657236 | 24491727 | 24253579 | 24467514 | 0.83 | cps |
| Sulfur | 34-1 | 768003 | 752962 | 749669 | 756878 | 1.29 | cps |
| Terbium | 159-1 | 19909884 | 19742394 | 20022287 | 19891522 | 0.71 | cps |
| Terbium | 159-2 | 7103819 | 7122615 | 6974327 | 7066920 | 1.14 | cps |
| Thallium | 203-1 | 3452613 | 3388893 | 3502142 | 3447882 | 1.65 | cps |
| Thallium | 205-1 | 8102989 | 7960762 | 8073069 | 8045607 | 0.93 | cps |
| Tin | 118-1 | 2700 | 3214 | 2754 | 2889 | 9.78 | cps |
| Titanium | 47-1 | 1450 | 1587 | 1547 | 1528 | 4.60 | cps |
| Uranium | 238-1 | 797 | 677 | 753 | 742 | 8.19 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:45:45 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 322419 | 322308 | 315334 | 320020 | 1.27 | cps |
| Ytterbium | 172-1 | 130 | 167 | 90 | 129 | 29.75 | cps |
| Ytterbium | 172-2 | 43 | 47 | 67 | 52 | 24.17 | cps |
| Ytterbium | 176-1 | 1840 | 1890 | 1877 | 1869 | 1.39 | cps |
| Ytterbium | 176-2 | 450 | 447 | 327 | 408 | 17.23 | cps |
| Yttrium | 89-1 | 28261925 | 27976193 | 27451385 | 27896501 | 1.47 | cps |
| Yttrium | 89-2 | 2120940 | 2135279 | 2158834 | 2138351 | 0.89 | cps |
| Zinc | 66-2 | 127644 | 129737 | 130955 | 129445 | 1.29 | cps |
| Zirconium | 90-1 | 1533 | 1513 | 1370 | 1472 | 6.05 | cps |
| Zirconium | 91-1 | 840 | 953 | 957 | 917 | 7.25 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 97 | 130 | 107 | 111 | 15.39 | cps |
| Antimony | 121-1 | 503 | 570 | 583 | 552 | 7.76 | cps |
| Arsenic | 75-2 | 27 | 0 | 0 | 9 | 173.21 | cps |
| Barium | 135-1 | 117 | 80 | 103 | 100 | 18.56 | cps |
| Barium | 137-1 | 137 | 160 | 153 | 150 | 8.01 | cps |
| Beryllium | 9-1 | 729 | 672 | 691 | 697 | 4.11 | cps |
| Bismuth | 209-1 | 12225291 | 12255663 | 12075051 | 12185335 | 0.79 | cps |
| Bismuth | 209-2 | 5476060 | 5427511 | 5413200 | 5438924 | 0.61 | cps |
| Bromine | 81-1 | 4004 | 4131 | 3941 | 4025 | 2.40 | cps |
| Cadmium | 108-1 | 7 | 13 | 27 | 16 | 65.47 | cps |
| Cadmium | 106-1 | 7172 | 7789 | 7582 | 7514 | 4.18 | cps |
| Cadmium | 111-1 | 5069 | 5493 | 5329 | 5297 | 4.04 | cps |
| Calcium | 43-1 | 617 | 690 | 670 | 659 | 5.75 | cps |
| Calcium | 44-1 | 34565 | 33810 | 34147 | 34174 | 1.11 | cps |
| Carbon | 12-1 | 6207591 | 6351346 | 6336719 | 6298552 | 1.26 | cps |
| Carbon | 12-2 | 41328 | 41485 | 41047 | 41287 | 0.54 | cps |
| Chlorine | 35-1 | 154912 | 154110 | 152079 | 153700 | 0.95 | cps |
| Chlorine | 35-2 | 663 | 557 | 637 | 619 | 8.97 | cps |
| Chromium | 52-2 | 1037 | 1023 | 1110 | 1057 | 4.42 | cps |
| Cobalt | 59-2 | 120 | 110 | 93 | 108 | 12.50 | cps |
| Copper | 63-2 | 5474 | 5551 | 5458 | 5494 | 0.91 | cps |
| Dysprosium | 156-1 | 17 | 20 | 23 | 20 | 16.65 | cps |
| Dysprosium | 156-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 113 | 93 | 113 | 107 | 10.82 | cps |
| Erbium | 164-2 | 37 | 43 | 33 | 38 | 13.48 | cps |
| Gadolinium | 160-1 | 127 | 120 | 147 | 131 | 10.59 | cps |
| Gadolinium | 160-2 | 37 | 27 | 27 | 30 | 19.24 | cps |
| Holmium | 165-1 | 18733260 | 19044602 | 19011323 | 18929728 | 0.90 | cps |
| Holmium | 165-2 | 7170051 | 7161997 | 7190591 | 7174213 | 0.21 | cps |
| Indium | 115-1 | 15217671 | 15425472 | 15360911 | 15334685 | 0.69 | cps |
| Indium | 115-2 | 1743046 | 1711268 | 1689515 | 1714610 | 1.57 | cps |
| Iron | 54-2 | 533 | 557 | 463 | 518 | 9.38 | cps |
| Iron | 56-2 | 7465 | 7789 | 7632 | 7629 | 2.12 | cps |
| Iron | 57-2 | 143 | 187 | 253 | 194 | 28.50 | cps |
| Krypton | 83-1 | 250 | 257 | 300 | 269 | 10.10 | cps |
| Lead | 206-1 | 3080 | 3030 | 3074 | 3062 | 0.89 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2677 | 2754 | 2687 | 2706 | 1.54 | cps |
| Lead | 208-1 | 12409 | 12459 | 12453 | 12440 | 0.22 | cps |
| Lithium | 6-1 | 9079892 | 8821882 | 8887853 | 8929876 | 1.50 | cps |
| Magnesium | 24-2 | 1743 | 1740 | 1683 | 1722 | 1.96 | cps |
| Manganese | 55-2 | 123 | 163 | 110 | 132 | 20.99 | cps |
| Molybdenum | 94-1 | 937 | 967 | 770 | 891 | 11.89 | cps |
| Molybdenum | 95-1 | 1203 | 990 | 1113 | 1102 | 9.72 | cps |
| Molybdenum | 96-1 | 1250 | 1147 | 1160 | 1186 | 4.74 | cps |
| Molybdenum | 97-1 | 663 | 480 | 567 | 570 | 16.09 | cps |
| Molybdenum | 98-1 | 2194 | 1363 | 1357 | 1638 | 29.40 | cps |
| Neodymium | 150-1 | 13 | 7 | 13 | 11 | 34.61 | cps |
| Neodymium | 150-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Nickel | 60-2 | 623 | 543 | 677 | 614 | 10.92 | cps |
| Phosphorus | 31-2 | 103 | 103 | 90 | 99 | 7.79 | cps |
| Potassium | 39-2 | 14531 | 14057 | 14317 | 14302 | 1.66 | cps |
| Rhodium | 103-1 | 14889942 | 14769158 | 14860694 | 14839931 | 0.42 | cps |
| Rhodium | 103-2 | 6260718 | 6179225 | 6164575 | 6201506 | 0.84 | cps |
| Scandium | 45-1 | 11180402 | 10980463 | 10977024 | 11045963 | 1.05 | cps |
| Scandium | 45-2 | 229534 | 228224 | 227557 | 228438 | 0.44 | cps |
| Selenium | 82-1 | 50 | 0 | 33 | 28 | 91.66 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Silicon | 28-1 | 635300 | 633690 | 631714 | 633568 | 0.28 | cps |
| Silver | 107-1 | 480 | 1205 | 447 | 711 | 60.33 | cps |
| Silver | 109-1 | 333 | 263 | 307 | 301 | 11.73 | cps |
| Sodium | 23-2 | 66752 | 65412 | 66169 | 66111 | 1.02 | cps |
| Strontium | 86-1 | 527 | 513 | 530 | 523 | 1.69 | cps |
| Strontium | 88-1 | 927 | 717 | 653 | 766 | 18.69 | cps |
| Sulfur | 34-1 | 773469 | 771754 | 777701 | 774308 | 0.40 | cps |
| Terbium | 159-1 | 19656591 | 19603336 | 19566019 | 19608649 | 0.23 | cps |
| Terbium | 159-2 | 6981353 | 6992083 | 7039201 | 7004212 | 0.44 | cps |
| Thallium | 203-1 | 467 | 507 | 503 | 492 | 4.51 | cps |
| Thallium | 205-1 | 1217 | 1130 | 1340 | 1229 | 8.59 | cps |
| Tin | 118-1 | 1790 | 2097 | 1920 | 1936 | 7.95 | cps |
| Titanium | 47-1 | 237 | 223 | 270 | 243 | 9.88 | cps |
| Uranium | 238-1 | 73 | 53 | 47 | 58 | 24.02 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:50:48 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Ytterbium | 172-1 | 123 | 97 | 97 | 106 | 14.59 | cps |
| Ytterbium | 172-2 | 53 | 47 | 50 | 50 | 6.66 | cps |
| Ytterbium | 176-1 | 1767 | 1777 | 1857 | 1800 | 2.74 | cps |
| Ytterbium | 176-2 | 363 | 363 | 400 | 376 | 5.64 | cps |
| Yttrium | 89-1 | 27280254 | 26947136 | 26756037 | 26994476 | 0.98 | cps |
| Yttrium | 89-2 | 2147389 | 2107596 | 2105443 | 2120143 | 1.11 | cps |
| Zinc | 66-2 | 363 | 373 | 350 | 362 | 3.23 | cps |
| Zirconium | 90-1 | 1030 | 923 | 943 | 966 | 5.87 | cps |
| Zirconium | 91-1 | 190 | 183 | 200 | 191 | 4.39 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6843237 | 6948448 | 6905729 | 6899138 | 0.77 | cps |
| Antimony | 121-1 | 17842 | 18312 | 18276 | 18143 | 1.44 | cps |
| Arsenic | 75-2 | 97 | 117 | 130 | 114 | 14.66 | cps |
| Barium | 135-1 | 5421 | 5605 | 5605 | 5543 | 1.91 | cps |
| Barium | 137-1 | 9060 | 8980 | 9503 | 9181 | 3.07 | cps |
| Beryllium | 9-1 | 2276 | 2307 | 2174 | 2252 | 3.11 | cps |
| Bismuth | 209-1 | 11879058 | 11021733 | 11090550 | 11330447 | 4.20 | cps |
| Bismuth | 209-2 | 4978348 | 5102253 | 5022008 | 5034203 | 1.25 | cps |
| Bromine | 81-1 | 6048 | 6658 | 6592 | 6433 | 5.20 | cps |
| Cadmium | 108-1 | 5451 | 5661 | 5148 | 5420 | 4.76 | cps |
| Cadmium | 106-1 | 7105 | 7055 | 6985 | 7049 | 0.86 | cps |
| Cadmium | 111-1 | 7713 | 7301 | 7741 | 7585 | 3.25 | cps |
| Calcium | 43-1 | 5378412 | 5361706 | 5406531 | 5382216 | 0.42 | cps |
| Calcium | 44-1 | 88022309 | 89877015 | 89181525 | 89026950 | 1.05 | cps |
| Carbon | 12-1 | 50090541 | 50636151 | 51367714 | 50698135 | 1.26 | cps |
| Carbon | 12-2 | 339754 | 340986 | 338907 | 339882 | 0.31 | cps |
| Chlorine | 35-1 | 80749075 | 88225452 | 90578672 | 86517733 | 5.93 | cps |
| Chlorine | 35-2 | 408794 | 416201 | 417839 | 414278 | 1.16 | cps |
| Chromium | 52-2 | 77036 | 78447 | 78112 | 77865 | 0.95 | cps |
| Cobalt | 59-2 | 8599 | 8930 | 8726 | 8752 | 1.90 | cps |
| Copper | 63-2 | 48014 | 49058 | 48793 | 48622 | 1.12 | cps |
| Dysprosium | 156-1 | 83 | 60 | 77 | 73 | 16.39 | cps |
| Dysprosium | 156-2 | 17 | 17 | 27 | 20 | 28.86 | cps |
| Erbium | 164-1 | 157 | 153 | 113 | 141 | 17.09 | cps |
| Erbium | 164-2 | 63 | 37 | 57 | 52 | 26.57 | cps |
| Gadolinium | 160-1 | 160 | 177 | 180 | 172 | 6.22 | cps |
| Gadolinium | 160-2 | 33 | 50 | 43 | 42 | 19.87 | cps |
| Holmium | 165-1 | 20189084 | 18717061 | 18417785 | 19107977 | 4.96 | cps |
| Holmium | 165-2 | 7198257 | 7173966 | 7243697 | 7205307 | 0.49 | cps |
| Indium | 115-1 | 15633823 | 14501014 | 14264016 | 14799618 | 4.95 | cps |
| Indium | 115-2 | 1607442 | 1541875 | 1594997 | 1581438 | 2.20 | cps |
| Iron | 54-2 | 15903181 | 16087076 | 15721601 | 15903953 | 1.15 | cps |
| Iron | 56-2 | 292487262 | 295762822 | 293071322 | 293773802 | 0.59 | cps |
| Iron | 57-2 | 7408903 | 7490621 | 7351501 | 7417008 | 0.94 | cps |
| Krypton | 83-1 | 357 | 300 | 353 | 337 | 9.44 | cps |
| Lead | 206-1 | 57323 | 58933 | 58866 | 58374 | 1.56 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 46072 | 45874 | 46128 | 46025 | 0.29 | cps |
| Lead | 208-1 | 216379 | 220445 | 219714 | 218846 | 0.99 | cps |
| Lithium | 6-1 | 8872078 | 8404043 | 8419527 | 8565216 | 3.10 | cps |
| Magnesium | 24-2 | 25021015 | 24894079 | 24741353 | 24885482 | 0.56 | cps |
| Manganese | 55-2 | 12149 | 12079 | 12272 | 12166 | 0.80 | cps |
| Molybdenum | 94-1 | 9174313 | 9286619 | 9191637 | 9217523 | 0.66 | cps |
| Molybdenum | 95-1 | 15818515 | 16052164 | 16179743 | 16016807 | 1.14 | cps |
| Molybdenum | 96-1 | 17381691 | 17270921 | 17613465 | 17422026 | 1.00 | cps |
| Molybdenum | 97-1 | 9967864 | 9903506 | 10202217 | 10024529 | 1.57 | cps |
| Molybdenum | 98-1 | 25783171 | 25997577 | 26014614 | 25931787 | 0.50 | cps |
| Neodymium | 150-1 | 70 | 63 | 83 | 72 | 14.10 | cps |
| Neodymium | 150-2 | 23 | 27 | 30 | 27 | 12.51 | cps |
| Nickel | 60-2 | 10858 | 11191 | 11104 | 11051 | 1.57 | cps |
| Phosphorus | 31-2 | 367059 | 369390 | 370007 | 368819 | 0.42 | cps |
| Potassium | 39-2 | 15123599 | 15094781 | 14937076 | 15051819 | 0.67 | cps |
| Rhodium | 103-1 | 14514433 | 13480883 | 13595620 | 13863645 | 4.09 | cps |
| Rhodium | 103-2 | 5656382 | 5676510 | 5696778 | 5676556 | 0.36 | cps |
| Scandium | 45-1 | 11529725 | 10834741 | 10868340 | 11077602 | 3.54 | cps |
| Scandium | 45-2 | 224811 | 224459 | 225662 | 224977 | 0.28 | cps |
| Selenium | 82-1 | -47 | -7 | -40 | -31 | -68.87 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 10 | 17 | 3 | 10 | 66.70 | cps |
| Silicon | 28-1 | 1002048 | 997189 | 1007493 | 1002244 | 0.51 | cps |
| Silver | 107-1 | 1613 | 1680 | 1500 | 1598 | 5.70 | cps |
| Silver | 109-1 | 1397 | 1407 | 1447 | 1417 | 1.87 | cps |
| Sodium | 23-2 | 52598971 | 52940779 | 52489279 | 52676343 | 0.45 | cps |
| Strontium | 86-1 | 172152 | 176849 | 178047 | 175683 | 1.77 | cps |
| Strontium | 88-1 | 1546483 | 1589159 | 1601999 | 1579214 | 1.84 | cps |
| Sulfur | 34-1 | 7891038 | 7792484 | 7742715 | 7808746 | 0.97 | cps |
| Terbium | 159-1 | 20698465 | 19488666 | 19399600 | 19862244 | 3.65 | cps |
| Terbium | 159-2 | 6937593 | 6994948 | 6797645 | 6910062 | 1.47 | cps |
| Thallium | 203-1 | 1277 | 1427 | 1817 | 1507 | 18.50 | cps |
| Thallium | 205-1 | 3167 | 3631 | 3901 | 3566 | 10.40 | cps |
| Tin | 118-1 | 4771 | 5118 | 4901 | 4930 | 3.55 | cps |
| Titanium | 47-1 | 5273171 | 5352924 | 5439030 | 5355042 | 1.55 | cps |
| Uranium | 238-1 | 787 | 823 | 843 | 818 | 3.51 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:54:42 | DataFile Name : | 014ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 517 | 473 | 493 | 494 | 4.39 | cps |
| Ytterbium | 172-1 | 157 | 123 | 113 | 131 | 17.30 | cps |
| Ytterbium | 172-2 | 63 | 67 | 67 | 66 | 2.94 | cps |
| Ytterbium | 176-1 | 1860 | 1687 | 1737 | 1761 | 5.07 | cps |
| Ytterbium | 176-2 | 300 | 320 | 337 | 319 | 5.76 | cps |
| Yttrium | 89-1 | 28535014 | 26965623 | 26990590 | 27497075 | 3.27 | cps |
| Yttrium | 89-2 | 2097345 | 2058664 | 2068411 | 2074807 | 0.97 | cps |
| Zinc | 66-2 | 7315 | 7018 | 7068 | 7134 | 2.23 | cps |
| Zirconium | 90-1 | 1733 | 1733 | 1690 | 1719 | 1.46 | cps |
| Zirconium | 91-1 | 327 | 323 | 370 | 340 | 7.66 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7193168 | 7099874 | 7075542 | 7122862 | 0.87 | cps |
| Antimony | 121-1 | 345364 | 349681 | 353169 | 349405 | 1.12 | cps |
| Arsenic | 75-2 | 7992 | 8119 | 7602 | 7905 | 3.41 | cps |
| Barium | 135-1 | 82851 | 83693 | 84622 | 83722 | 1.06 | cps |
| Barium | 137-1 | 143399 | 147046 | 146527 | 145658 | 1.35 | cps |
| Beryllium | 9-1 | 128012 | 129996 | 128444 | 128817 | 0.81 | cps |
| Bismuth | 209-1 | 11176586 | 10940487 | 11183837 | 11100303 | 1.25 | cps |
| Bismuth | 209-2 | 5066891 | 5112523 | 5029558 | 5069657 | 0.82 | cps |
| Bromine | 81-1 | 5715 | 6255 | 6328 | 6099 | 5.49 | cps |
| Cadmium | 108-1 | 10841 | 10564 | 10594 | 10666 | 1.42 | cps |
| Cadmium | 106-1 | 14014 | 14074 | 13914 | 14001 | 0.58 | cps |
| Cadmium | 111-1 | 85069 | 85593 | 86526 | 85729 | 0.86 | cps |
| Calcium | 43-1 | 5702841 | 5789850 | 5673675 | 5722122 | 1.06 | cps |
| Calcium | 44-1 | 93107429 | 93152752 | 92955119 | 93071766 | 0.11 | cps |
| Carbon | 12-1 | 52774528 | 54527928 | 54655228 | 53985894 | 1.95 | cps |
| Carbon | 12-2 | 362334 | 361954 | 361636 | 361975 | 0.10 | cps |
| Chlorine | 35-1 | 93502669 | 98580719 | 100008949 | 97364112 | 3.51 | cps |
| Chlorine | 35-2 | 451855 | 451203 | 455910 | 452989 | 0.56 | cps |
| Chromium | 52-2 | 159147 | 160613 | 162811 | 160857 | 1.15 | cps |
| Cobalt | 59-2 | 160709 | 161315 | 161329 | 161118 | 0.22 | cps |
| Copper | 63-2 | 166779 | 167562 | 166118 | 166820 | 0.43 | cps |
| Dysprosium | 156-1 | 70 | 100 | 50 | 73 | 34.32 | cps |
| Dysprosium | 156-2 | 57 | 27 | 33 | 39 | 40.51 | cps |
| Erbium | 164-1 | 160 | 173 | 183 | 172 | 6.80 | cps |
| Erbium | 164-2 | 57 | 53 | 57 | 56 | 3.47 | cps |
| Gadolinium | 160-1 | 137 | 167 | 170 | 158 | 11.63 | cps |
| Gadolinium | 160-2 | 47 | 50 | 57 | 51 | 9.96 | cps |
| Holmium | 165-1 | 18796972 | 19030827 | 19155313 | 18994371 | 0.96 | cps |
| Holmium | 165-2 | 7260506 | 7221328 | 7297098 | 7259644 | 0.52 | cps |
| Indium | 115-1 | 14812455 | 14655522 | 14723732 | 14730570 | 0.53 | cps |
| Indium | 115-2 | 1653435 | 1633711 | 1629502 | 1638883 | 0.78 | cps |
| Iron | 54-2 | 16687413 | 16607129 | 16559618 | 16618054 | 0.39 | cps |
| Iron | 56-2 | 307803629 | 305771895 | 301844456 | 305139993 | 0.99 | cps |
| Iron | 57-2 | 7653686 | 7577037 | 7722691 | 7651138 | 0.95 | cps |
| Krypton | 83-1 | 277 | 283 | 277 | 279 | 1.38 | cps |
| Lead | 206-1 | 309943 | 314306 | 312931 | 312393 | 0.71 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 260468 | 260371 | 259344 | 260061 | 0.24 | cps |
| Lead | 208-1 | 1199348 | 1209465 | 1215397 | 1208070 | 0.67 | cps |
| Lithium | 6-1 | 8638275 | 8293689 | 8306303 | 8412755 | 2.32 | cps |
| Magnesium | 24-2 | 25786905 | 25181964 | 25226530 | 25398466 | 1.33 | cps |
| Manganese | 55-2 | 45238 | 44783 | 45298 | 45106 | 0.62 | cps |
| Molybdenum | 94-1 | 9690633 | 9826086 | 9727658 | 9748125 | 0.72 | cps |
| Molybdenum | 95-1 | 16822254 | 17045416 | 16719572 | 16862414 | 0.99 | cps |
| Molybdenum | 96-1 | 18121868 | 18334331 | 18051926 | 18169375 | 0.81 | cps |
| Molybdenum | 97-1 | 10542876 | 10481167 | 10484970 | 10503004 | 0.33 | cps |
| Molybdenum | 98-1 | 27131755 | 27119481 | 27275070 | 27175436 | 0.32 | cps |
| Neodymium | 150-1 | 130 | 57 | 100 | 96 | 38.58 | cps |
| Neodymium | 150-2 | 10 | 23 | 23 | 19 | 40.75 | cps |
| Nickel | 60-2 | 52583 | 52282 | 51854 | 52240 | 0.70 | cps |
| Phosphorus | 31-2 | 384053 | 382721 | 383575 | 383450 | 0.18 | cps |
| Potassium | 39-2 | 15887542 | 15469901 | 15600244 | 15652563 | 1.37 | cps |
| Rhodium | 103-1 | 13908495 | 13464495 | 13756532 | 13709841 | 1.65 | cps |
| Rhodium | 103-2 | 5765074 | 5739275 | 5733814 | 5746054 | 0.29 | cps |
| Scandium | 45-1 | 11068882 | 10910051 | 11003241 | 10994058 | 0.73 | cps |
| Scandium | 45-2 | 228726 | 227205 | 231255 | 229062 | 0.89 | cps |
| Selenium | 82-1 | 5071 | 5268 | 5078 | 5139 | 2.17 | cps |
| Selenium | 77-2 | 77 | 127 | 90 | 98 | 26.48 | cps |
| Selenium | 78-2 | 377 | 267 | 337 | 327 | 17.05 | cps |
| Silicon | 28-1 | 1021497 | 1030312 | 1027209 | 1026339 | 0.44 | cps |
| Silver | 107-1 | 380417 | 388037 | 389975 | 386143 | 1.31 | cps |
| Silver | 109-1 | 365615 | 372483 | 368581 | 368893 | 0.93 | cps |
| Sodium | 23-2 | 54787568 | 54438874 | 54287316 | 54504586 | 0.47 | cps |
| Strontium | 86-1 | 181597 | 185405 | 185036 | 184013 | 1.14 | cps |
| Strontium | 88-1 | 1619604 | 1675915 | 1651182 | 1648900 | 1.71 | cps |
| Sulfur | 34-1 | 8250877 | 8192721 | 8132155 | 8191918 | 0.72 | cps |
| Terbium | 159-1 | 19489428 | 19315901 | 19373018 | 19392782 | 0.46 | cps |
| Terbium | 159-2 | 6969874 | 6934673 | 7008196 | 6970914 | 0.53 | cps |
| Thallium | 203-1 | 311922 | 316283 | 318426 | 315544 | 1.05 | cps |
| Thallium | 205-1 | 747800 | 754012 | 761881 | 754564 | 0.94 | cps |
| Tin | 118-1 | 4211 | 4007 | 4461 | 4226 | 5.38 | cps |
| Titanium | 47-1 | 5522398 | 5685325 | 5582789 | 5596837 | 1.47 | cps |
| Uranium | 238-1 | 890 | 890 | 870 | 883 | 1.31 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 12:57:49 | DataFile Name : | 015ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 63567 | 63115 | 63306 | 63329 | 0.36 | cps |
| Ytterbium | 172-1 | 103 | 140 | 120 | 121 | 15.16 | cps |
| Ytterbium | 172-2 | 40 | 57 | 30 | 42 | 31.91 | cps |
| Ytterbium | 176-1 | 1703 | 1707 | 1720 | 1710 | 0.52 | cps |
| Ytterbium | 176-2 | 353 | 367 | 383 | 368 | 4.09 | cps |
| Yttrium | 89-1 | 27248974 | 27116162 | 27602468 | 27322535 | 0.92 | cps |
| Yttrium | 89-2 | 2132882 | 2129712 | 2106566 | 2123053 | 0.68 | cps |
| Zinc | 66-2 | 19610 | 19974 | 19874 | 19820 | 0.95 | cps |
| Zirconium | 90-1 | 1287 | 1263 | 1350 | 1300 | 3.45 | cps |
| Zirconium | 91-1 | 307 | 320 | 373 | 333 | 10.58 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3763862 | 3711136 | 3773573 | 3749524 | 0.90 | cps |
| Antimony | 121-1 | 7930877 | 8027619 | 7966222 | 7974906 | 0.61 | cps |
| Arsenic | 75-2 | 178120 | 177257 | 174229 | 176536 | 1.16 | cps |
| Barium | 135-1 | 9583480 | 9663649 | 9459569 | 9568899 | 1.07 | cps |
| Barium | 137-1 | 16464958 | 16378187 | 16776408 | 16539851 | 1.27 | cps |
| Beryllium | 9-1 | 2910114 | 2999355 | 3050456 | 2986641 | 2.38 | cps |
| Bismuth | 209-1 | 10886758 | 10542559 | 10799237 | 10742851 | 1.67 | cps |
| Bismuth | 209-2 | 4897807 | 4826511 | 4768993 | 4831103 | 1.34 | cps |
| Bromine | 81-1 | 5274 | 5248 | 5334 | 5285 | 0.84 | cps |
| Cadmium | 108-1 | 152810 | 153039 | 153036 | 152962 | 0.09 | cps |
| Cadmium | 106-1 | 221131 | 220802 | 226420 | 222784 | 1.42 | cps |
| Cadmium | 111-1 | 1933508 | 1967062 | 1938610 | 1946393 | 0.93 | cps |
| Calcium | 43-1 | 13250886 | 13307612 | 13116804 | 13225101 | 0.74 | cps |
| Calcium | 44-1 | 210947197 | 217653510 | 214152690 | 214251132 | 1.57 | cps |
| Carbon | 12-1 | 7078415 | 7113476 | 7270463 | 7154118 | 1.43 | cps |
| Carbon | 12-2 | 54611 | 53942 | 53841 | 54131 | 0.77 | cps |
| Chlorine | 35-1 | 5905612 | 5580695 | 5305726 | 5597344 | 5.36 | cps |
| Chlorine | 35-2 | 20451 | 19503 | 18776 | 19577 | 4.29 | cps |
| Chromium | 52-2 | 2004546 | 2028955 | 2008053 | 2013851 | 0.66 | cps |
| Cobalt | 59-2 | 3663922 | 3651368 | 3643175 | 3652821 | 0.29 | cps |
| Copper | 63-2 | 27473506 | 26930190 | 27527336 | 27310344 | 1.21 | cps |
| Dysprosium | 156-1 | 373 | 450 | 440 | 421 | 9.90 | cps |
| Dysprosium | 156-2 | 77 | 120 | 110 | 102 | 22.19 | cps |
| Erbium | 164-1 | 467 | 407 | 453 | 442 | 7.12 | cps |
| Erbium | 164-2 | 143 | 137 | 170 | 150 | 11.76 | cps |
| Gadolinium | 160-1 | 433 | 387 | 403 | 408 | 5.80 | cps |
| Gadolinium | 160-2 | 167 | 187 | 153 | 169 | 9.93 | cps |
| Holmium | 165-1 | 18299857 | 18358628 | 18249461 | 18302649 | 0.30 | cps |
| Holmium | 165-2 | 7083253 | 7185012 | 7069934 | 7112733 | 0.89 | cps |
| Indium | 115-1 | 14316458 | 14153921 | 14162698 | 14211026 | 0.64 | cps |
| Indium | 115-2 | 1555728 | 1570702 | 1505658 | 1544029 | 2.21 | cps |
| Iron | 54-2 | 19521302 | 19386534 | 19658035 | 19521957 | 0.70 | cps |
| Iron | 56-2 | 355398848 | 363850061 | 358595301 | 359281404 | 1.19 | cps |
| Iron | 57-2 | 9006501 | 9096973 | 9013904 | 9039126 | 0.56 | cps |
| Krypton | 83-1 | 333 | 343 | 370 | 349 | 5.43 | cps |
| Lead | 206-1 | 30927175 | 30908899 | 30896405 | 30910826 | 0.05 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26542556 | 26686206 | 26719469 | 26649410 | 0.35 | cps |
| Lead | 208-1 | 121630011 | 122079112 | 123054077 | 122254400 | 0.60 | cps |
| Lithium | 6-1 | 8080961 | 7940882 | 8182281 | 8068041 | 1.50 | cps |
| Magnesium | 24-2 | 64710474 | 63381276 | 63370579 | 63820776 | 1.21 | cps |
| Manganese | 55-2 | 8018723 | 8139063 | 7984819 | 8047535 | 1.01 | cps |
| Molybdenum | 94-1 | 28794053 | 29553650 | 29145011 | 29164238 | 1.30 | cps |
| Molybdenum | 95-1 | 41397957 | 41686527 | 41691787 | 41592090 | 0.40 | cps |
| Molybdenum | 96-1 | 45669406 | 45065314 | 46122608 | 45619109 | 1.16 | cps |
| Molybdenum | 97-1 | 25733332 | 25471170 | 25873570 | 25692691 | 0.79 | cps |
| Molybdenum | 98-1 | 67318019 | 67066862 | 67368079 | 67250987 | 0.24 | cps |
| Neodymium | 150-1 | 747 | 717 | 847 | 770 | 8.84 | cps |
| Neodymium | 150-2 | 53 | 63 | 73 | 63 | 15.79 | cps |
| Nickel | 60-2 | 944880 | 935053 | 949446 | 943126 | 0.78 | cps |
| Phosphorus | 31-2 | 37047 | 37198 | 37074 | 37106 | 0.22 | cps |
| Potassium | 39-2 | 18965852 | 18787498 | 18698163 | 18817171 | 0.72 | cps |
| Rhodium | 103-1 | 13186325 | 12768150 | 12972928 | 12975801 | 1.61 | cps |
| Rhodium | 103-2 | 5457585 | 5470222 | 5396710 | 5441505 | 0.72 | cps |
| Scandium | 45-1 | 10651784 | 10642451 | 10362683 | 10552306 | 1.56 | cps |
| Scandium | 45-2 | 223363 | 225411 | 223590 | 224121 | 0.50 | cps |
| Selenium | 82-1 | 117164 | 117725 | 118388 | 117759 | 0.52 | cps |
| Selenium | 77-2 | 2080 | 2340 | 2287 | 2236 | 6.14 | cps |
| Selenium | 78-2 | 7652 | 7999 | 7889 | 7847 | 2.26 | cps |
| Silicon | 28-1 | 6965901 | 7234358 | 7123795 | 7108018 | 1.90 | cps |
| Silver | 107-1 | 9761820 | 9711282 | 9813949 | 9762350 | 0.53 | cps |
| Silver | 109-1 | 9074883 | 9323197 | 9189399 | 9195826 | 1.35 | cps |
| Sodium | 23-2 | 127536931 | 127759275 | 125828788 | 127041665 | 0.83 | cps |
| Strontium | 86-1 | 2704748 | 2739242 | 2680384 | 2708125 | 1.09 | cps |
| Strontium | 88-1 | 23099945 | 22914363 | 23282475 | 23098928 | 0.80 | cps |
| Sulfur | 34-1 | 1460776 | 1492838 | 1454105 | 1469240 | 1.41 | cps |
| Terbium | 159-1 | 19283933 | 18802443 | 18927049 | 19004475 | 1.31 | cps |
| Terbium | 159-2 | 6896460 | 6872883 | 6751658 | 6840334 | 1.14 | cps |
| Thallium | 203-1 | 7643084 | 7481068 | 7531692 | 7551948 | 1.10 | cps |
| Thallium | 205-1 | 17825105 | 18120162 | 18502878 | 18149382 | 1.87 | cps |
| Tin | 118-1 | 6451894 | 6379096 | 6522706 | 6451232 | 1.11 | cps |
| Titanium | 47-1 | 12932408 | 13017495 | 13331315 | 13093739 | 1.60 | cps |
| Uranium | 238-1 | 25049370 | 25333704 | 25399673 | 25260915 | 0.74 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:00:52 | DataFile Name : | 016CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1576781 | 1585499 | 1597145 | 1586475 | 0.64 | cps |
| Ytterbium | 172-1 | 460 | 487 | 447 | 464 | 4.39 | cps |
| Ytterbium | 172-2 | 177 | 257 | 210 | 214 | 18.74 | cps |
| Ytterbium | 176-1 | 37914 | 38279 | 38636 | 38276 | 0.94 | cps |
| Ytterbium | 176-2 | 14912 | 13937 | 15039 | 14629 | 4.12 | cps |
| Yttrium | 89-1 | 26431508 | 26148174 | 25947996 | 26175893 | 0.93 | cps |
| Yttrium | 89-2 | 2093314 | 2080646 | 2048069 | 2074009 | 1.13 | cps |
| Zinc | 66-2 | 2956796 | 2972406 | 2980151 | 2969784 | 0.40 | cps |
| Zirconium | 90-1 | 14387992 | 14791581 | 14414542 | 14531372 | 1.55 | cps |
| Zirconium | 91-1 | 3223980 | 3285539 | 3299612 | 3269710 | 1.23 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 110 | 140 | 120 | 123 | 12.39 | cps |
| Antimony | 121-1 | 663 | 620 | 633 | 639 | 3.47 | cps |
| Arsenic | 75-2 | 0 | 0 | 7 | 2 | 173.21 | cps |
| Barium | 135-1 | 73 | 100 | 67 | 80 | 22.05 | cps |
| Barium | 137-1 | 180 | 147 | 93 | 140 | 31.23 | cps |
| Beryllium | 9-1 | 910 | 811 | 791 | 837 | 7.59 | cps |
| Bismuth | 209-1 | 12687735 | 12449702 | 12250210 | 12462549 | 1.76 | cps |
| Bismuth | 209-2 | 5639684 | 5667635 | 5678338 | 5661886 | 0.35 | cps |
| Bromine | 81-1 | 4557 | 4497 | 4571 | 4542 | 0.86 | cps |
| Cadmium | 108-1 | 3 | 30 | 17 | 17 | 80.01 | cps |
| Cadmium | 106-1 | 7846 | 7896 | 7849 | 7863 | 0.36 | cps |
| Cadmium | 111-1 | 5576 | 5553 | 5526 | 5552 | 0.45 | cps |
| Calcium | 43-1 | 463 | 477 | 430 | 457 | 5.26 | cps |
| Calcium | 44-1 | 32774 | 31454 | 32607 | 32278 | 2.23 | cps |
| Carbon | 12-1 | 6046317 | 6033953 | 5968175 | 6016149 | 0.70 | cps |
| Carbon | 12-2 | 39466 | 39192 | 39373 | 39344 | 0.35 | cps |
| Chlorine | 35-1 | 1711772 | 1624496 | 1530929 | 1622399 | 5.57 | cps |
| Chlorine | 35-2 | 5631 | 5765 | 5878 | 5758 | 2.15 | cps |
| Chromium | 52-2 | 973 | 1070 | 1053 | 1032 | 5.01 | cps |
| Cobalt | 59-2 | 80 | 83 | 117 | 93 | 21.73 | cps |
| Copper | 63-2 | 4104 | 3974 | 3974 | 4017 | 1.87 | cps |
| Dysprosium | 156-1 | 17 | 10 | 7 | 11 | 45.82 | cps |
| Dysprosium | 156-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Erbium | 164-1 | 80 | 73 | 77 | 77 | 4.35 | cps |
| Erbium | 164-2 | 37 | 17 | 30 | 28 | 36.66 | cps |
| Gadolinium | 160-1 | 110 | 123 | 133 | 122 | 9.58 | cps |
| Gadolinium | 160-2 | 27 | 30 | 20 | 26 | 19.92 | cps |
| Holmium | 165-1 | 20253311 | 19486379 | 19470456 | 19736715 | 2.27 | cps |
| Holmium | 165-2 | 7559469 | 7560559 | 7510926 | 7543651 | 0.38 | cps |
| Indium | 115-1 | 16666898 | 16285347 | 15879046 | 16277097 | 2.42 | cps |
| Indium | 115-2 | 1768221 | 1766806 | 1766136 | 1767054 | 0.06 | cps |
| Iron | 54-2 | 817 | 750 | 703 | 757 | 7.53 | cps |
| Iron | 56-2 | 10504 | 10647 | 10377 | 10510 | 1.29 | cps |
| Iron | 57-2 | 267 | 293 | 183 | 248 | 23.16 | cps |
| Krypton | 83-1 | 347 | 317 | 263 | 309 | 13.66 | cps |
| Lead | 206-1 | 3651 | 3484 | 3644 | 3593 | 2.63 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3167 | 2990 | 3074 | 3077 | 2.87 | cps |
| Lead | 208-1 | 14703 | 14047 | 14006 | 14252 | 2.75 | cps |
| Lithium | 6-1 | 9517773 | 9066234 | 9080038 | 9221348 | 2.78 | cps |
| Magnesium | 24-2 | 1467 | 1393 | 1473 | 1445 | 3.07 | cps |
| Manganese | 55-2 | 173 | 140 | 150 | 154 | 11.08 | cps |
| Molybdenum | 94-1 | 680 | 617 | 663 | 653 | 5.02 | cps |
| Molybdenum | 95-1 | 610 | 427 | 403 | 480 | 23.58 | cps |
| Molybdenum | 96-1 | 703 | 563 | 470 | 579 | 20.29 | cps |
| Molybdenum | 97-1 | 393 | 243 | 270 | 302 | 26.48 | cps |
| Molybdenum | 98-1 | 913 | 587 | 677 | 726 | 23.26 | cps |
| Neodymium | 150-1 | 30 | 10 | 10 | 17 | 69.28 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 567 | 567 | 613 | 582 | 4.63 | cps |
| Phosphorus | 31-2 | 80 | 107 | 113 | 100 | 17.64 | cps |
| Potassium | 39-2 | 16733 | 16406 | 16510 | 16550 | 1.01 | cps |
| Rhodium | 103-1 | 15721478 | 15366128 | 15459801 | 15515802 | 1.19 | cps |
| Rhodium | 103-2 | 6493436 | 6475338 | 6408284 | 6459019 | 0.69 | cps |
| Scandium | 45-1 | 11903849 | 11495228 | 11193861 | 11530979 | 3.09 | cps |
| Scandium | 45-2 | 238698 | 240262 | 237524 | 238828 | 0.58 | cps |
| Selenium | 82-1 | -120 | 67 | -10 | -21 | -444.43 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Silicon | 28-1 | 640066 | 639586 | 637348 | 639000 | 0.23 | cps |
| Silver | 107-1 | 613 | 530 | 597 | 580 | 7.60 | cps |
| Silver | 109-1 | 510 | 427 | 367 | 434 | 16.57 | cps |
| Sodium | 23-2 | 77025 | 74784 | 74921 | 75577 | 1.66 | cps |
| Strontium | 86-1 | 510 | 497 | 543 | 517 | 4.65 | cps |
| Strontium | 88-1 | 467 | 463 | 447 | 459 | 2.34 | cps |
| Sulfur | 34-1 | 794236 | 792681 | 794624 | 793847 | 0.13 | cps |
| Terbium | 159-1 | 20305190 | 20134037 | 20267002 | 20235410 | 0.44 | cps |
| Terbium | 159-2 | 7314061 | 7324170 | 7256596 | 7298275 | 0.50 | cps |
| Thallium | 203-1 | 730 | 827 | 817 | 791 | 6.72 | cps |
| Thallium | 205-1 | 1860 | 1980 | 1827 | 1889 | 4.27 | cps |
| Tin | 118-1 | 2050 | 2234 | 2090 | 2125 | 4.54 | cps |
| Titanium | 47-1 | 397 | 353 | 303 | 351 | 13.30 | cps |
| Uranium | 238-1 | 120 | 107 | 97 | 108 | 10.86 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:07:19 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 20 | 17 | 10 | 16 | 32.73 | cps |
| Ytterbium | 172-1 | 107 | 103 | 107 | 106 | 1.83 | cps |
| Ytterbium | 172-2 | 53 | 43 | 43 | 47 | 12.37 | cps |
| Ytterbium | 176-1 | 1954 | 1977 | 1913 | 1948 | 1.64 | cps |
| Ytterbium | 176-2 | 303 | 400 | 367 | 357 | 13.77 | cps |
| Yttrium | 89-1 | 29107087 | 28201123 | 28057046 | 28455085 | 2.00 | cps |
| Yttrium | 89-2 | 2217029 | 2236739 | 2185684 | 2213151 | 1.16 | cps |
| Zinc | 66-2 | 247 | 333 | 270 | 283 | 15.83 | cps |
| Zirconium | 90-1 | 1117 | 1090 | 1243 | 1150 | 7.12 | cps |
| Zirconium | 91-1 | 243 | 240 | 237 | 240 | 1.39 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1119341 | 1180186 | 1118715 | 1139414 | 3.10 | cps |
| Antimony | 121-1 | 40921 | 41613 | 41743 | 41426 | 1.07 | cps |
| Arsenic | 75-2 | 16954 | 16843 | 16980 | 16926 | 0.43 | cps |
| Barium | 135-1 | 2804625 | 2844943 | 2850787 | 2833452 | 0.89 | cps |
| Barium | 137-1 | 4841018 | 4860664 | 4905870 | 4869184 | 0.68 | cps |
| Beryllium | 9-1 | 25311 | 25089 | 25083 | 25161 | 0.52 | cps |
| Bismuth | 209-1 | 12539607 | 12205765 | 12164311 | 12303228 | 1.67 | cps |
| Bismuth | 209-2 | 5746520 | 5198740 | 5597640 | 5514300 | 5.14 | cps |
| Bromine | 81-1 | 15822 | 16844 | 17421 | 16696 | 4.85 | cps |
| Cadmium | 108-1 | 5855 | 5948 | 5648 | 5817 | 2.64 | cps |
| Cadmium | 106-1 | 17338 | 16523 | 16770 | 16877 | 2.47 | cps |
| Cadmium | 111-1 | 89867 | 88483 | 90235 | 89528 | 1.03 | cps |
| Calcium | 43-1 | 9265118 | 9401100 | 9248202 | 9304806 | 0.90 | cps |
| Calcium | 44-1 | 153245711 | 149222841 | 148803728 | 150424093 | 1.63 | cps |
| Carbon | 12-1 | 9508055 | 9770160 | 9673285 | 9650500 | 1.37 | cps |
| Carbon | 12-2 | 62114 | 62810 | 62716 | 62547 | 0.60 | cps |
| Chlorine | 35-1 | 157461128 | 168455764 | 174975137 | 166964010 | 5.30 | cps |
| Chlorine | 35-2 | 773257 | 792771 | 793048 | 786359 | 1.44 | cps |
| Chromium | 52-2 | 256441 | 257207 | 256471 | 256706 | 0.17 | cps |
| Cobalt | 59-2 | 152716 | 153376 | 152638 | 152910 | 0.27 | cps |
| Copper | 63-2 | 2426968 | 2374719 | 2335850 | 2379179 | 1.92 | cps |
| Dysprosium | 156-1 | 152889 | 153591 | 153904 | 153461 | 0.34 | cps |
| Dysprosium | 156-2 | 53262 | 53577 | 52864 | 53234 | 0.67 | cps |
| Erbium | 164-1 | 126498 | 126639 | 126858 | 126665 | 0.14 | cps |
| Erbium | 164-2 | 46732 | 46508 | 47371 | 46870 | 0.96 | cps |
| Gadolinium | 160-1 | 141157 | 140006 | 139628 | 140264 | 0.57 | cps |
| Gadolinium | 160-2 | 63222 | 62978 | 63004 | 63068 | 0.21 | cps |
| Holmium | 165-1 | 20367438 | 19409315 | 19927956 | 19901569 | 2.41 | cps |
| Holmium | 165-2 | 7815578 | 7067311 | 7542309 | 7475066 | 5.07 | cps |
| Indium | 115-1 | 16237477 | 15647403 | 15728784 | 15871221 | 2.01 | cps |
| Indium | 115-2 | 1795348 | 1607559 | 1727095 | 1710001 | 5.56 | cps |
| Iron | 54-2 | 6265642 | 6222299 | 6185042 | 6224328 | 0.65 | cps |
| Iron | 56-2 | 114254432 | 114302042 | 114113022 | 114223165 | 0.09 | cps |
| Iron | 57-2 | 2944492 | 2931103 | 2866009 | 2913868 | 1.44 | cps |
| Krypton | 83-1 | 537 | 603 | 513 | 551 | 8.47 | cps |
| Lead | 206-1 | 20749792 | 20832399 | 20560482 | 20714224 | 0.67 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 17305998 | 17464471 | 17420646 | 17397038 | 0.47 | cps |
| Lead | 208-1 | 81020147 | 81083323 | 81086785 | 81063418 | 0.05 | cps |
| Lithium | 6-1 | 9256185 | 9038471 | 9146113 | 9146923 | 1.19 | cps |
| Magnesium | 24-2 | 3287450 | 3351236 | 3351567 | 3330084 | 1.11 | cps |
| Manganese | 55-2 | 10731987 | 10632454 | 10656136 | 10673526 | 0.49 | cps |
| Molybdenum | 94-1 | 56832 | 58097 | 57190 | 57373 | 1.14 | cps |
| Molybdenum | 95-1 | 20672 | 20652 | 20262 | 20529 | 1.13 | cps |
| Molybdenum | 96-1 | 29157 | 29324 | 29632 | 29371 | 0.82 | cps |
| Molybdenum | 97-1 | 12462 | 12753 | 12636 | 12617 | 1.16 | cps |
| Molybdenum | 98-1 | 33206 | 33721 | 32642 | 33190 | 1.63 | cps |
| Neodymium | 150-1 | 223225 | 223311 | 224203 | 223579 | 0.24 | cps |
| Neodymium | 150-2 | 59900 | 60468 | 59354 | 59907 | 0.93 | cps |
| Nickel | 60-2 | 157178 | 155968 | 154772 | 155973 | 0.77 | cps |
| Phosphorus | 31-2 | 11491 | 11908 | 11728 | 11709 | 1.79 | cps |
| Potassium | 39-2 | 984279 | 991959 | 981386 | 985875 | 0.55 | cps |
| Rhodium | 103-1 | 15174507 | 14749571 | 14600963 | 14841680 | 2.01 | cps |
| Rhodium | 103-2 | 6381820 | 5856351 | 6207580 | 6148584 | 4.35 | cps |
| Scandium | 45-1 | 11878937 | 11676332 | 11552659 | 11702643 | 1.41 | cps |
| Scandium | 45-2 | 251275 | 223250 | 243418 | 239314 | 6.04 | cps |
| Selenium | 82-1 | 3177 | 3187 | 3130 | 3165 | 0.96 | cps |
| Selenium | 77-2 | 337 | 383 | 357 | 359 | 6.52 | cps |
| Selenium | 78-2 | 393 | 340 | 390 | 374 | 7.98 | cps |
| Silicon | 28-1 | 135965361 | 138646201 | 139101525 | 137904362 | 1.23 | cps |
| Silver | 107-1 | 164566 | 163587 | 165611 | 164588 | 0.61 | cps |
| Silver | 109-1 | 155621 | 156275 | 154087 | 155328 | 0.72 | cps |
| Sodium | 23-2 | 396650 | 401176 | 397744 | 398523 | 0.59 | cps |
| Strontium | 86-1 | 3380532 | 3321658 | 3277681 | 3326624 | 1.55 | cps |
| Strontium | 88-1 | 29075906 | 29220288 | 28416727 | 28904307 | 1.48 | cps |
| Sulfur | 34-1 | 885273 | 888826 | 886259 | 886786 | 0.21 | cps |
| Terbium | 159-1 | 20842165 | 20102052 | 20020745 | 20321654 | 2.23 | cps |
| Terbium | 159-2 | 7529777 | 6762680 | 7259151 | 7183869 | 5.42 | cps |
| Thallium | 203-1 | 11529 | 12102 | 12289 | 11973 | 3.31 | cps |
| Thallium | 205-1 | 27409 | 28996 | 29554 | 28653 | 3.88 | cps |
| Tin | 118-1 | 190595 | 189979 | 190484 | 190353 | 0.17 | cps |
| Titanium | 47-1 | 650346 | 651516 | 656835 | 652899 | 0.53 | cps |
| Uranium | 238-1 | 202500 | 205314 | 202750 | 203521 | 0.77 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1177-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GW9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:10:39 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 216377 | 220507 | 219749 | 218877 | 1.00 | cps |
| Ytterbium | 172-1 | 38970 | 39151 | 38656 | 38926 | 0.64 | cps |
| Ytterbium | 172-2 | 17592 | 17512 | 17488 | 17531 | 0.31 | cps |
| Ytterbium | 176-1 | 26163 | 26206 | 26293 | 26220 | 0.25 | cps |
| Ytterbium | 176-2 | 11755 | 11819 | 11028 | 11534 | 3.81 | cps |
| Yttrium | 89-1 | 31634635 | 30186344 | 29917500 | 30579493 | 3.02 | cps |
| Yttrium | 89-2 | 2445634 | 2179409 | 2383709 | 2336251 | 5.96 | cps |
| Zinc | 66-2 | 2892217 | 2886801 | 2864740 | 2881253 | 0.51 | cps |
| Zirconium | 90-1 | 124849 | 126584 | 124587 | 125340 | 0.87 | cps |
| Zirconium | 91-1 | 27394 | 27687 | 27901 | 27661 | 0.92 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1746109 | 1737788 | 1746329 | 1743409 | 0.28 | cps |
| Antimony | 121-1 | 66802 | 66434 | 66923 | 66719 | 0.38 | cps |
| Arsenic | 75-2 | 30426 | 30807 | 30667 | 30633 | 0.63 | cps |
| Barium | 135-1 | 11243330 | 11206024 | 11011643 | 11153666 | 1.12 | cps |
| Barium | 137-1 | 19322899 | 19725472 | 19241546 | 19429972 | 1.33 | cps |
| Beryllium | 9-1 | 23204 | 23417 | 23096 | 23239 | 0.70 | cps |
| Bismuth | 209-1 | 12101827 | 12144962 | 12318499 | 12188429 | 0.94 | cps |
| Bismuth | 209-2 | 5576351 | 5286161 | 5537993 | 5466835 | 2.88 | cps |
| Bromine | 81-1 | 18786 | 20599 | 20802 | 20062 | 5.53 | cps |
| Cadmium | 108-1 | 23637 | 23567 | 23099 | 23434 | 1.25 | cps |
| Cadmium | 106-1 | 40650 | 40656 | 41151 | 40819 | 0.70 | cps |
| Cadmium | 111-1 | 361773 | 360963 | 361996 | 361578 | 0.15 | cps |
| Calcium | 43-1 | 8110788 | 8043335 | 7974666 | 8042930 | 0.85 | cps |
| Calcium | 44-1 | 130226071 | 131607698 | 129149011 | 130327594 | 0.95 | cps |
| Carbon | 12-1 | 9759555 | 9885148 | 9987226 | 9877309 | 1.15 | cps |
| Carbon | 12-2 | 64671 | 64547 | 63195 | 64138 | 1.28 | cps |
| Chlorine | 35-1 | 179991724 | 189770677 | 193266284 | 187676228 | 3.67 | cps |
| Chlorine | 35-2 | 857186 | 860895 | 869472 | 862518 | 0.73 | cps |
| Chromium | 52-2 | 186202 | 185668 | 187440 | 186437 | 0.49 | cps |
| Cobalt | 59-2 | 296529 | 297497 | 298647 | 297558 | 0.36 | cps |
| Copper | 63-2 | 3908618 | 3955584 | 3914907 | 3926370 | 0.65 | cps |
| Dysprosium | 156-1 | 198952 | 202290 | 200209 | 200484 | 0.84 | cps |
| Dysprosium | 156-2 | 70789 | 70789 | 68612 | 70063 | 1.79 | cps |
| Erbium | 164-1 | 162060 | 163195 | 159854 | 161703 | 1.05 | cps |
| Erbium | 164-2 | 60744 | 59891 | 60527 | 60387 | 0.73 | cps |
| Gadolinium | 160-1 | 182974 | 179479 | 180295 | 180916 | 1.01 | cps |
| Gadolinium | 160-2 | 81674 | 82664 | 80615 | 81651 | 1.26 | cps |
| Holmium | 165-1 | 19327954 | 19778474 | 19800293 | 19635573 | 1.36 | cps |
| Holmium | 165-2 | 7528474 | 7201175 | 7488501 | 7406050 | 2.41 | cps |
| Indium | 115-1 | 15891871 | 16014169 | 16043328 | 15983123 | 0.50 | cps |
| Indium | 115-2 | 1743075 | 1658616 | 1750188 | 1717293 | 2.97 | cps |
| Iron | 54-2 | 19254810 | 19170786 | 19220135 | 19215244 | 0.22 | cps |
| Iron | 56-2 | 356084968 | 353670875 | 353693821 | 354483221 | 0.39 | cps |
| Iron | 57-2 | 8947265 | 8902495 | 8947217 | 8932326 | 0.29 | cps |
| Krypton | 83-1 | 513 | 687 | 607 | 602 | 14.41 | cps |
| Lead | 206-1 | 24561190 | 24243673 | 24460033 | 24421632 | 0.66 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 20547285 | 20580606 | 20582706 | 20570199 | 0.10 | cps |
| Lead | 208-1 | 95820293 | 95273226 | 95952839 | 95682119 | 0.38 | cps |
| Lithium | 6-1 | 8884337 | 9217571 | 9313809 | 9138572 | 2.47 | cps |
| Magnesium | 24-2 | 4061801 | 3923320 | 3904203 | 3963108 | 2.17 | cps |
| Manganese | 55-2 | 11997135 | 11920464 | 11972647 | 11963415 | 0.33 | cps |
| Molybdenum | 94-1 | 65071 | 66063 | 64696 | 65277 | 1.08 | cps |
| Molybdenum | 95-1 | 46063 | 45942 | 45939 | 45981 | 0.15 | cps |
| Molybdenum | 96-1 | 56196 | 55882 | 56260 | 56113 | 0.36 | cps |
| Molybdenum | 97-1 | 28923 | 28232 | 28660 | 28605 | 1.22 | cps |
| Molybdenum | 98-1 | 72749 | 73403 | 74184 | 73445 | 0.98 | cps |
| Neodymium | 150-1 | 302693 | 303183 | 299294 | 301724 | 0.70 | cps |
| Neodymium | 150-2 | 80935 | 80965 | 80855 | 80919 | 0.07 | cps |
| Nickel | 60-2 | 1099489 | 1095432 | 1096155 | 1097025 | 0.20 | cps |
| Phosphorus | 31-2 | 16306 | 16066 | 15672 | 16014 | 2.00 | cps |
| Potassium | 39-2 | 1297764 | 1290333 | 1296642 | 1294913 | 0.31 | cps |
| Rhodium | 103-1 | 14715717 | 14772164 | 14869383 | 14785755 | 0.53 | cps |
| Rhodium | 103-2 | 6142312 | 5968999 | 6114640 | 6075317 | 1.53 | cps |
| Scandium | 45-1 | 11797367 | 11687799 | 11914627 | 11799931 | 0.96 | cps |
| Scandium | 45-2 | 244275 | 231080 | 239514 | 238290 | 2.80 | cps |
| Selenium | 82-1 | 3194 | 3381 | 3431 | 3335 | 3.74 | cps |
| Selenium | 77-2 | 420 | 387 | 440 | 416 | 6.48 | cps |
| Selenium | 78-2 | 423 | 367 | 417 | 402 | 7.70 | cps |
| Silicon | 28-1 | 78356856 | 79932860 | 78526329 | 78938682 | 1.10 | cps |
| Silver | 107-1 | 199130 | 199292 | 200702 | 199708 | 0.43 | cps |
| Silver | 109-1 | 187647 | 189090 | 188603 | 188447 | 0.39 | cps |
| Sodium | 23-2 | 591965 | 595879 | 593290 | 593711 | 0.34 | cps |
| Strontium | 86-1 | 3098583 | 3032219 | 3140833 | 3090545 | 1.77 | cps |
| Strontium | 88-1 | 26879896 | 26328118 | 26355454 | 26521156 | 1.17 | cps |
| Sulfur | 34-1 | 931405 | 941082 | 954049 | 942179 | 1.21 | cps |
| Terbium | 159-1 | 20127310 | 20136594 | 20291880 | 20185261 | 0.46 | cps |
| Terbium | 159-2 | 7307601 | 6999090 | 7299389 | 7202026 | 2.44 | cps |
| Thallium | 203-1 | 18951 | 19501 | 19708 | 19387 | 2.02 | cps |
| Thallium | 205-1 | 45155 | 45954 | 46874 | 45995 | 1.87 | cps |
| Tin | 118-1 | 411420 | 410544 | 410488 | 410817 | 0.13 | cps |
| Titanium | 47-1 | 949801 | 942387 | 951372 | 947853 | 0.51 | cps |
| Uranium | 238-1 | 242150 | 240582 | 238633 | 240455 | 0.73 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1178-01A | Instrumnet Name : | P8 |
| Client Sample ID : | MH2GX0A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:14:50 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 365057 | 368840 | 370662 | 368186 | 0.78 | cps |
| Ytterbium | 172-1 | 49385 | 49087 | 48776 | 49083 | 0.62 | cps |
| Ytterbium | 172-2 | 22242 | 22876 | 21678 | 22266 | 2.69 | cps |
| Ytterbium | 176-1 | 32326 | 32607 | 32520 | 32484 | 0.44 | cps |
| Ytterbium | 176-2 | 14451 | 14365 | 14438 | 14418 | 0.32 | cps |
| Yttrium | 89-1 | 30859453 | 30870769 | 31813432 | 31181218 | 1.76 | cps |
| Yttrium | 89-2 | 2421463 | 2328244 | 2417102 | 2388936 | 2.20 | cps |
| Zinc | 66-2 | 3722532 | 3833096 | 3718668 | 3758099 | 1.73 | cps |
| Zirconium | 90-1 | 105985 | 106681 | 107624 | 106763 | 0.77 | cps |
| Zirconium | 91-1 | 23834 | 24475 | 24041 | 24116 | 1.36 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 63 | 90 | 87 | 80 | 18.17 | cps |
| Antimony | 121-1 | 117 | 123 | 140 | 127 | 9.49 | cps |
| Arsenic | 75-2 | 7 | 20 | 0 | 9 | 114.55 | cps |
| Barium | 135-1 | 50 | 83 | 103 | 79 | 34.16 | cps |
| Barium | 137-1 | 140 | 130 | 107 | 126 | 13.62 | cps |
| Beryllium | 9-1 | 460 | 510 | 501 | 490 | 5.45 | cps |
| Bismuth | 209-1 | 10863462 | 12310310 | 12111873 | 11761881 | 6.67 | cps |
| Bismuth | 209-2 | 5583388 | 5624053 | 5604913 | 5604118 | 0.36 | cps |
| Bromine | 81-1 | 4874 | 4607 | 4654 | 4712 | 3.02 | cps |
| Cadmium | 108-1 | 27 | 37 | 27 | 30 | 19.24 | cps |
| Cadmium | 106-1 | 6945 | 7565 | 7952 | 7488 | 6.79 | cps |
| Cadmium | 111-1 | 4890 | 5310 | 5585 | 5261 | 6.65 | cps |
| Calcium | 43-1 | 487 | 507 | 407 | 467 | 11.34 | cps |
| Calcium | 44-1 | 31758 | 31391 | 31458 | 31536 | 0.62 | cps |
| Carbon | 12-1 | 5861273 | 5916810 | 5938433 | 5905505 | 0.67 | cps |
| Carbon | 12-2 | 38801 | 38116 | 37354 | 38090 | 1.90 | cps |
| Chlorine | 35-1 | 3898801 | 3639708 | 3465990 | 3668166 | 5.94 | cps |
| Chlorine | 35-2 | 13777 | 13206 | 12953 | 13312 | 3.17 | cps |
| Chromium | 52-2 | 870 | 943 | 1017 | 943 | 7.77 | cps |
| Cobalt | 59-2 | 107 | 83 | 77 | 89 | 17.72 | cps |
| Copper | 63-2 | 3424 | 3537 | 3367 | 3443 | 2.52 | cps |
| Dysprosium | 156-1 | 20 | 20 | 3 | 14 | 66.64 | cps |
| Dysprosium | 156-2 | 10 | 0 | 3 | 4 | 114.60 | cps |
| Erbium | 164-1 | 87 | 137 | 97 | 107 | 24.80 | cps |
| Erbium | 164-2 | 43 | 43 | 40 | 42 | 4.55 | cps |
| Gadolinium | 160-1 | 130 | 103 | 130 | 121 | 12.71 | cps |
| Gadolinium | 160-2 | 20 | 27 | 13 | 20 | 33.35 | cps |
| Holmium | 165-1 | 17353067 | 19378846 | 19321544 | 18684486 | 6.17 | cps |
| Holmium | 165-2 | 7458484 | 7576075 | 7509909 | 7514823 | 0.78 | cps |
| Indium | 115-1 | 14230652 | 15437642 | 15718794 | 15129029 | 5.23 | cps |
| Indium | 115-2 | 1779595 | 1771642 | 1795272 | 1782170 | 0.67 | cps |
| Iron | 54-2 | 703 | 690 | 660 | 684 | 3.24 | cps |
| Iron | 56-2 | 10307 | 9667 | 9500 | 9825 | 4.34 | cps |
| Iron | 57-2 | 213 | 240 | 183 | 212 | 13.36 | cps |
| Krypton | 83-1 | 307 | 297 | 377 | 327 | 13.35 | cps |
| Lead | 206-1 | 3007 | 3164 | 3124 | 3098 | 2.63 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2677 | 2537 | 2694 | 2636 | 3.27 | cps |
| Lead | 208-1 | 12229 | 12302 | 11892 | 12141 | 1.80 | cps |
| Lithium | 6-1 | 8343571 | 9021798 | 9143483 | 8836284 | 4.88 | cps |
| Magnesium | 24-2 | 1370 | 1327 | 1393 | 1363 | 2.48 | cps |
| Manganese | 55-2 | 237 | 233 | 130 | 200 | 30.32 | cps |
| Molybdenum | 94-1 | 377 | 373 | 360 | 370 | 2.38 | cps |
| Molybdenum | 95-1 | 147 | 137 | 183 | 156 | 15.80 | cps |
| Molybdenum | 96-1 | 187 | 277 | 210 | 224 | 20.81 | cps |
| Molybdenum | 97-1 | 80 | 87 | 103 | 90 | 13.35 | cps |
| Molybdenum | 98-1 | 247 | 250 | 243 | 247 | 1.35 | cps |
| Neodymium | 150-1 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 617 | 570 | 553 | 580 | 5.66 | cps |
| Phosphorus | 31-2 | 67 | 80 | 87 | 78 | 13.09 | cps |
| Potassium | 39-2 | 14464 | 15091 | 14808 | 14788 | 2.12 | cps |
| Rhodium | 103-1 | 13453285 | 15050751 | 15406396 | 14636810 | 7.11 | cps |
| Rhodium | 103-2 | 6438582 | 6393302 | 6433576 | 6421820 | 0.39 | cps |
| Scandium | 45-1 | 10348564 | 11388537 | 11601654 | 11112918 | 6.03 | cps |
| Scandium | 45-2 | 240833 | 241559 | 239522 | 240638 | 0.43 | cps |
| Selenium | 82-1 | -3 | -33 | -90 | -42 | -104.25 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 13 | 17 | 3 | 11 | 62.48 | cps |
| Silicon | 28-1 | 650024 | 643746 | 642919 | 645563 | 0.60 | cps |
| Silver | 107-1 | 393 | 393 | 393 | 393 | 0.00 | cps |
| Silver | 109-1 | 287 | 230 | 277 | 264 | 11.44 | cps |
| Sodium | 23-2 | 64070 | 63189 | 63417 | 63559 | 0.72 | cps |
| Strontium | 86-1 | 570 | 467 | 580 | 539 | 11.64 | cps |
| Strontium | 88-1 | 413 | 493 | 463 | 457 | 8.85 | cps |
| Sulfur | 34-1 | 801939 | 804757 | 806736 | 804477 | 0.30 | cps |
| Terbium | 159-1 | 18058650 | 19451948 | 20104590 | 19205063 | 5.44 | cps |
| Terbium | 159-2 | 7214004 | 7219515 | 7408205 | 7280574 | 1.52 | cps |
| Thallium | 203-1 | 683 | 660 | 673 | 672 | 1.74 | cps |
| Thallium | 205-1 | 1553 | 1467 | 1547 | 1522 | 3.17 | cps |
| Tin | 118-1 | 1970 | 1920 | 1997 | 1962 | 1.98 | cps |
| Titanium | 47-1 | 300 | 300 | 260 | 287 | 8.06 | cps |
| Uranium | 238-1 | 40 | 33 | 27 | 33 | 20.00 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:22:47 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17 | 20 | 23 | 20 | 16.65 | cps |
| Ytterbium | 172-1 | 77 | 100 | 160 | 112 | 38.31 | cps |
| Ytterbium | 172-2 | 30 | 43 | 33 | 36 | 19.51 | cps |
| Ytterbium | 176-1 | 1830 | 1944 | 2007 | 1927 | 4.65 | cps |
| Ytterbium | 176-2 | 277 | 390 | 370 | 346 | 17.51 | cps |
| Yttrium | 89-1 | 25615652 | 27558259 | 28245612 | 27139841 | 5.03 | cps |
| Yttrium | 89-2 | 2229964 | 2263090 | 2228083 | 2240379 | 0.88 | cps |
| Zinc | 66-2 | 233 | 297 | 273 | 268 | 11.96 | cps |
| Zirconium | 90-1 | 810 | 883 | 1033 | 909 | 12.53 | cps |
| Zirconium | 91-1 | 160 | 160 | 183 | 168 | 8.03 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3274 | 3400 | 3227 | 3300 | 2.72 | cps |
| Antimony | 121-1 | 64659 | 64458 | 64759 | 64625 | 0.24 | cps |
| Arsenic | 75-2 | 793 | 733 | 803 | 777 | 4.88 | cps |
| Barium | 135-1 | 74369 | 75593 | 75931 | 75298 | 1.09 | cps |
| Barium | 137-1 | 130644 | 132471 | 131185 | 131433 | 0.71 | cps |
| Beryllium | 9-1 | 13783 | 13721 | 13761 | 13755 | 0.23 | cps |
| Bismuth | 209-1 | 12116603 | 12359152 | 12290629 | 12255461 | 1.02 | cps |
| Bismuth | 209-2 | 5550786 | 5554413 | 5628784 | 5577994 | 0.79 | cps |
| Bromine | 81-1 | 4647 | 4611 | 4698 | 4652 | 0.94 | cps |
| Cadmium | 108-1 | 663 | 550 | 607 | 607 | 9.34 | cps |
| Cadmium | 106-1 | 8896 | 8733 | 9040 | 8890 | 1.73 | cps |
| Cadmium | 111-1 | 13545 | 13914 | 14242 | 13901 | 2.51 | cps |
| Calcium | 43-1 | 69791 | 70535 | 70264 | 70197 | 0.54 | cps |
| Calcium | 44-1 | 1056740 | 1076058 | 1059652 | 1064150 | 0.98 | cps |
| Carbon | 12-1 | 6318796 | 6366188 | 6324486 | 6336490 | 0.41 | cps |
| Carbon | 12-2 | 40994 | 40412 | 41308 | 40905 | 1.11 | cps |
| Chlorine | 35-1 | 3779954 | 3854570 | 3868246 | 3834257 | 1.24 | cps |
| Chlorine | 35-2 | 16162 | 16123 | 16666 | 16317 | 1.86 | cps |
| Chromium | 52-2 | 17007 | 16199 | 16506 | 16571 | 2.46 | cps |
| Cobalt | 59-2 | 15368 | 15826 | 15669 | 15621 | 1.49 | cps |
| Copper | 63-2 | 30252 | 29364 | 29721 | 29779 | 1.50 | cps |
| Dysprosium | 156-1 | 27 | 27 | 37 | 30 | 19.24 | cps |
| Dysprosium | 156-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Erbium | 164-1 | 103 | 127 | 93 | 108 | 15.87 | cps |
| Erbium | 164-2 | 40 | 53 | 43 | 46 | 15.23 | cps |
| Gadolinium | 160-1 | 143 | 100 | 100 | 114 | 21.86 | cps |
| Gadolinium | 160-2 | 23 | 23 | 33 | 27 | 21.65 | cps |
| Holmium | 165-1 | 19253498 | 19517638 | 19340149 | 19370428 | 0.70 | cps |
| Holmium | 165-2 | 7416905 | 7593457 | 7494892 | 7501751 | 1.18 | cps |
| Indium | 115-1 | 15657101 | 16045059 | 15963969 | 15888710 | 1.29 | cps |
| Indium | 115-2 | 1717998 | 1793015 | 1767522 | 1759512 | 2.17 | cps |
| Iron | 54-2 | 67187 | 68135 | 66383 | 67235 | 1.30 | cps |
| Iron | 56-2 | 1229361 | 1214243 | 1233494 | 1225699 | 0.83 | cps |
| Iron | 57-2 | 30693 | 30543 | 30593 | 30610 | 0.25 | cps |
| Krypton | 83-1 | 317 | 293 | 297 | 302 | 4.18 | cps |
| Lead | 206-1 | 27579 | 27382 | 27008 | 27323 | 1.06 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23902 | 24059 | 24012 | 23991 | 0.34 | cps |
| Lead | 208-1 | 109645 | 109491 | 109502 | 109546 | 0.08 | cps |
| Lithium | 6-1 | 9183663 | 9085588 | 9072901 | 9114051 | 0.67 | cps |
| Magnesium | 24-2 | 260177 | 263001 | 259430 | 260869 | 0.72 | cps |
| Manganese | 55-2 | 3627 | 3447 | 3484 | 3519 | 2.70 | cps |
| Molybdenum | 94-1 | 67727 | 68169 | 68430 | 68109 | 0.52 | cps |
| Molybdenum | 95-1 | 81155 | 81598 | 82630 | 81794 | 0.93 | cps |
| Molybdenum | 96-1 | 90549 | 91526 | 91076 | 91050 | 0.54 | cps |
| Molybdenum | 97-1 | 50632 | 51656 | 50813 | 51033 | 1.07 | cps |
| Molybdenum | 98-1 | 128593 | 131509 | 131237 | 130446 | 1.24 | cps |
| Neodymium | 150-1 | 20 | 33 | 20 | 24 | 31.49 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 5018 | 4781 | 4878 | 4892 | 2.43 | cps |
| Phosphorus | 31-2 | 310 | 297 | 300 | 302 | 2.30 | cps |
| Potassium | 39-2 | 170215 | 168784 | 172002 | 170334 | 0.95 | cps |
| Rhodium | 103-1 | 15230346 | 15372071 | 15046093 | 15216170 | 1.07 | cps |
| Rhodium | 103-2 | 6435186 | 6416861 | 6433471 | 6428506 | 0.16 | cps |
| Scandium | 45-1 | 11534989 | 11539592 | 11604306 | 11559629 | 0.34 | cps |
| Scandium | 45-2 | 241964 | 241534 | 243539 | 242346 | 0.44 | cps |
| Selenium | 82-1 | 2410 | 2330 | 2830 | 2524 | 10.64 | cps |
| Selenium | 77-2 | 57 | 60 | 30 | 49 | 33.63 | cps |
| Selenium | 78-2 | 167 | 173 | 183 | 174 | 4.81 | cps |
| Silicon | 28-1 | 918820 | 914795 | 896801 | 910138 | 1.29 | cps |
| Silver | 107-1 | 41155 | 40647 | 41773 | 41191 | 1.37 | cps |
| Silver | 109-1 | 37581 | 39172 | 38246 | 38333 | 2.08 | cps |
| Sodium | 23-2 | 606646 | 597761 | 601383 | 601930 | 0.74 | cps |
| Strontium | 86-1 | 2405112 | 2403385 | 2450534 | 2419677 | 1.10 | cps |
| Strontium | 88-1 | 20334471 | 20753947 | 20254269 | 20447562 | 1.31 | cps |
| Sulfur | 34-1 | 821558 | 818173 | 826185 | 821972 | 0.49 | cps |
| Terbium | 159-1 | 19728958 | 20023628 | 19552347 | 19768311 | 1.20 | cps |
| Terbium | 159-2 | 7173674 | 7371543 | 7271304 | 7272174 | 1.36 | cps |
| Thallium | 203-1 | 31321 | 30730 | 31064 | 31038 | 0.96 | cps |
| Thallium | 205-1 | 73614 | 74472 | 73832 | 73973 | 0.60 | cps |
| Tin | 118-1 | 131046 | 130595 | 131096 | 130913 | 0.21 | cps |
| Titanium | 47-1 | 6568 | 6718 | 6655 | 6647 | 1.13 | cps |
| Uranium | 238-1 | 92726 | 94834 | 94364 | 93975 | 1.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166302BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS302 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:26:08 | DataFile Name : | 023LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 31769 | 32614 | 32333 | 32239 | 1.34 | cps |
| Ytterbium | 172-1 | 73 | 83 | 103 | 87 | 17.63 | cps |
| Ytterbium | 172-2 | 57 | 57 | 53 | 56 | 3.47 | cps |
| Ytterbium | 176-1 | 2140 | 2090 | 2100 | 2110 | 1.25 | cps |
| Ytterbium | 176-2 | 400 | 377 | 410 | 396 | 4.32 | cps |
| Yttrium | 89-1 | 28068479 | 28499932 | 28233161 | 28267191 | 0.77 | cps |
| Yttrium | 89-2 | 2249290 | 2232527 | 2230263 | 2237360 | 0.46 | cps |
| Zinc | 66-2 | 6795 | 7045 | 7085 | 6975 | 2.25 | cps |
| Zirconium | 90-1 | 55239 | 57582 | 56112 | 56311 | 2.10 | cps |
| Zirconium | 91-1 | 12679 | 12589 | 12899 | 12723 | 1.25 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1745831 | 1739619 | 1753633 | 1746361 | 0.40 | cps |
| Antimony | 121-1 | 19000 | 19941 | 19751 | 19564 | 2.54 | cps |
| Arsenic | 75-2 | 22395 | 21289 | 22097 | 21927 | 2.61 | cps |
| Barium | 135-1 | 929620 | 942139 | 941045 | 937601 | 0.74 | cps |
| Barium | 137-1 | 1709249 | 1707702 | 1728554 | 1715168 | 0.68 | cps |
| Beryllium | 9-1 | 7276 | 7362 | 7147 | 7262 | 1.49 | cps |
| Bismuth | 209-1 | 12367087 | 12208424 | 11922114 | 12165875 | 1.85 | cps |
| Bismuth | 209-2 | 5562356 | 5461533 | 5438884 | 5487591 | 1.20 | cps |
| Bromine | 81-1 | 8222 | 8593 | 8996 | 8604 | 4.50 | cps |
| Cadmium | 108-1 | 167 | 167 | 183 | 172 | 5.59 | cps |
| Cadmium | 106-1 | 8329 | 8176 | 7966 | 8157 | 2.24 | cps |
| Cadmium | 111-1 | 6514 | 6363 | 6308 | 6395 | 1.67 | cps |
| Calcium | 43-1 | 341380 | 345488 | 342408 | 343092 | 0.62 | cps |
| Calcium | 44-1 | 5711776 | 5718151 | 5664838 | 5698255 | 0.51 | cps |
| Carbon | 12-1 | 6764127 | 6946198 | 7000041 | 6903455 | 1.79 | cps |
| Carbon | 12-2 | 44337 | 44664 | 44885 | 44629 | 0.62 | cps |
| Chlorine | 35-1 | 190148251 | 208984690 | 218897470 | 206010137 | 7.09 | cps |
| Chlorine | 35-2 | 958065 | 960269 | 963823 | 960719 | 0.30 | cps |
| Chromium | 52-2 | 211472 | 213309 | 213262 | 212681 | 0.49 | cps |
| Cobalt | 59-2 | 224299 | 221944 | 223460 | 223234 | 0.53 | cps |
| Copper | 63-2 | 589878 | 593144 | 589227 | 590750 | 0.36 | cps |
| Dysprosium | 156-1 | 68313 | 70484 | 69415 | 69404 | 1.56 | cps |
| Dysprosium | 156-2 | 29068 | 28744 | 27769 | 28527 | 2.37 | cps |
| Erbium | 164-1 | 66160 | 67383 | 67222 | 66922 | 0.99 | cps |
| Erbium | 164-2 | 24930 | 24810 | 25381 | 25040 | 1.20 | cps |
| Gadolinium | 160-1 | 73270 | 74272 | 73813 | 73785 | 0.68 | cps |
| Gadolinium | 160-2 | 33612 | 33632 | 33155 | 33466 | 0.81 | cps |
| Holmium | 165-1 | 19778823 | 19497161 | 19257355 | 19511113 | 1.34 | cps |
| Holmium | 165-2 | 7515765 | 7491881 | 7457653 | 7488433 | 0.39 | cps |
| Indium | 115-1 | 16328076 | 15822934 | 15825733 | 15992248 | 1.82 | cps |
| Indium | 115-2 | 1741415 | 1678549 | 1724898 | 1714954 | 1.90 | cps |
| Iron | 54-2 | 10229255 | 10226228 | 10217131 | 10224205 | 0.06 | cps |
| Iron | 56-2 | 192123244 | 189571537 | 189007371 | 190234051 | 0.87 | cps |
| Iron | 57-2 | 4826589 | 4868687 | 4754849 | 4816708 | 1.19 | cps |
| Krypton | 83-1 | 400 | 467 | 317 | 394 | 19.05 | cps |
| Lead | 206-1 | 329196 | 334159 | 331329 | 331561 | 0.75 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 273623 | 275366 | 272563 | 273851 | 0.52 | cps |
| Lead | 208-1 | 1279234 | 1295407 | 1287870 | 1287504 | 0.63 | cps |
| Lithium | 6-1 | 9728153 | 9447441 | 9491867 | 9555820 | 1.58 | cps |
| Magnesium | 24-2 | 3112749 | 3033313 | 3029312 | 3058458 | 1.54 | cps |
| Manganese | 55-2 | 829779 | 831306 | 828288 | 829791 | 0.18 | cps |
| Molybdenum | 94-1 | 17137 | 17154 | 17171 | 17154 | 0.10 | cps |
| Molybdenum | 95-1 | 10791 | 11245 | 11568 | 11201 | 3.49 | cps |
| Molybdenum | 96-1 | 14224 | 14307 | 14281 | 14271 | 0.30 | cps |
| Molybdenum | 97-1 | 6518 | 7342 | 6992 | 6951 | 5.95 | cps |
| Molybdenum | 98-1 | 17761 | 17985 | 17781 | 17843 | 0.69 | cps |
| Neodymium | 150-1 | 74167 | 74612 | 74090 | 74290 | 0.38 | cps |
| Neodymium | 150-2 | 19865 | 20299 | 19938 | 20034 | 1.16 | cps |
| Nickel | 60-2 | 160497 | 162698 | 160601 | 161266 | 0.77 | cps |
| Phosphorus | 31-2 | 2514 | 2634 | 2754 | 2634 | 4.56 | cps |
| Potassium | 39-2 | 111318 | 109437 | 109558 | 110105 | 0.96 | cps |
| Rhodium | 103-1 | 15567395 | 15197186 | 15169258 | 15311280 | 1.45 | cps |
| Rhodium | 103-2 | 6423459 | 6160690 | 6354411 | 6312853 | 2.16 | cps |
| Scandium | 45-1 | 12388229 | 12062567 | 12199588 | 12216795 | 1.34 | cps |
| Scandium | 45-2 | 247663 | 243425 | 242493 | 244527 | 1.13 | cps |
| Selenium | 82-1 | 213 | 160 | 347 | 240 | 40.06 | cps |
| Selenium | 77-2 | 143 | 127 | 107 | 126 | 14.62 | cps |
| Selenium | 78-2 | 113 | 87 | 107 | 102 | 13.57 | cps |
| Silicon | 28-1 | 82702867 | 83037547 | 82947939 | 82896118 | 0.21 | cps |
| Silver | 107-1 | 9410 | 8964 | 7886 | 8753 | 8.95 | cps |
| Silver | 109-1 | 8760 | 7605 | 7069 | 7811 | 11.06 | cps |
| Sodium | 23-2 | 118771 | 119884 | 120095 | 119583 | 0.59 | cps |
| Strontium | 86-1 | 301260 | 303384 | 300985 | 301876 | 0.43 | cps |
| Strontium | 88-1 | 2734052 | 2714745 | 2677598 | 2708798 | 1.06 | cps |
| Sulfur | 34-1 | 730754 | 702343 | 688487 | 707195 | 3.05 | cps |
| Terbium | 159-1 | 20555127 | 20275380 | 19773473 | 20201327 | 1.96 | cps |
| Terbium | 159-2 | 7347072 | 7388351 | 7167744 | 7301055 | 1.61 | cps |
| Thallium | 203-1 | 3494 | 3731 | 3734 | 3653 | 3.77 | cps |
| Thallium | 205-1 | 8379 | 8656 | 9090 | 8709 | 4.11 | cps |
| Tin | 118-1 | 6365 | 6218 | 6572 | 6385 | 2.78 | cps |
| Titanium | 47-1 | 64477 | 64357 | 64725 | 64520 | 0.29 | cps |
| Uranium | 238-1 | 23959 | 24317 | 23913 | 24063 | 0.92 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:29:24 | DataFile Name : | 024AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 210630 | 209405 | 209367 | 209801 | 0.34 | cps |
| Ytterbium | 172-1 | 19194 | 19201 | 18987 | 19127 | 0.64 | cps |
| Ytterbium | 172-2 | 8690 | 8446 | 8590 | 8575 | 1.43 | cps |
| Ytterbium | 176-1 | 13467 | 13841 | 13477 | 13595 | 1.57 | cps |
| Ytterbium | 176-2 | 5698 | 5851 | 5948 | 5832 | 2.16 | cps |
| Yttrium | 89-1 | 30693239 | 29634201 | 29299505 | 29875648 | 2.44 | cps |
| Yttrium | 89-2 | 2349651 | 2251254 | 2271014 | 2290639 | 2.27 | cps |
| Zinc | 66-2 | 87565 | 86438 | 86998 | 87000 | 0.65 | cps |
| Zirconium | 90-1 | 28703 | 29411 | 28963 | 29026 | 1.23 | cps |
| Zirconium | 91-1 | 6502 | 6508 | 6558 | 6523 | 0.48 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1730578 | 1748498 | 1703314 | 1727464 | 1.32 | cps |
| Antimony | 121-1 | 17852 | 18145 | 17568 | 17855 | 1.62 | cps |
| Arsenic | 75-2 | 21353 | 21203 | 21707 | 21421 | 1.21 | cps |
| Barium | 135-1 | 930081 | 943585 | 937372 | 937013 | 0.72 | cps |
| Barium | 137-1 | 1662805 | 1681762 | 1688044 | 1677537 | 0.78 | cps |
| Beryllium | 9-1 | 7236 | 7112 | 7300 | 7216 | 1.32 | cps |
| Bismuth | 209-1 | 12330949 | 12163881 | 12211511 | 12235447 | 0.70 | cps |
| Bismuth | 209-2 | 5415605 | 5514438 | 5531173 | 5487072 | 1.14 | cps |
| Bromine | 81-1 | 7856 | 8096 | 8649 | 8200 | 4.96 | cps |
| Cadmium | 108-1 | 157 | 163 | 147 | 156 | 5.39 | cps |
| Cadmium | 106-1 | 7515 | 7932 | 7786 | 7744 | 2.73 | cps |
| Cadmium | 111-1 | 5971 | 6308 | 6137 | 6139 | 2.75 | cps |
| Calcium | 43-1 | 337552 | 340213 | 341638 | 339801 | 0.61 | cps |
| Calcium | 44-1 | 5506491 | 5638026 | 5607871 | 5584130 | 1.23 | cps |
| Carbon | 12-1 | 7009135 | 6922890 | 6968374 | 6966800 | 0.62 | cps |
| Carbon | 12-2 | 44989 | 44935 | 44049 | 44658 | 1.18 | cps |
| Chlorine | 35-1 | 208527370 | 225113817 | 227999010 | 220546732 | 4.76 | cps |
| Chlorine | 35-2 | 991874 | 993503 | 1007139 | 997506 | 0.84 | cps |
| Chromium | 52-2 | 212406 | 213043 | 211314 | 212254 | 0.41 | cps |
| Cobalt | 59-2 | 224448 | 223605 | 221900 | 223317 | 0.58 | cps |
| Copper | 63-2 | 593734 | 590620 | 587671 | 590675 | 0.51 | cps |
| Dysprosium | 156-1 | 68940 | 69908 | 69325 | 69391 | 0.70 | cps |
| Dysprosium | 156-2 | 28317 | 28390 | 27979 | 28229 | 0.78 | cps |
| Erbium | 164-1 | 67523 | 68117 | 67208 | 67616 | 0.68 | cps |
| Erbium | 164-2 | 25845 | 24620 | 25381 | 25282 | 2.45 | cps |
| Gadolinium | 160-1 | 72881 | 73317 | 73591 | 73263 | 0.49 | cps |
| Gadolinium | 160-2 | 34404 | 33241 | 32937 | 33528 | 2.31 | cps |
| Holmium | 165-1 | 19835758 | 19641555 | 19851167 | 19776160 | 0.59 | cps |
| Holmium | 165-2 | 7683949 | 7431959 | 7473391 | 7529766 | 1.79 | cps |
| Indium | 115-1 | 16047856 | 15969816 | 15763247 | 15926973 | 0.92 | cps |
| Indium | 115-2 | 1743624 | 1711153 | 1697138 | 1717305 | 1.39 | cps |
| Iron | 54-2 | 10155342 | 10380408 | 10123045 | 10219598 | 1.37 | cps |
| Iron | 56-2 | 187466857 | 189705264 | 190561104 | 189244408 | 0.84 | cps |
| Iron | 57-2 | 4808968 | 4745966 | 4687421 | 4747452 | 1.28 | cps |
| Krypton | 83-1 | 427 | 433 | 417 | 426 | 1.97 | cps |
| Lead | 206-1 | 333348 | 332114 | 335246 | 333569 | 0.47 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 272065 | 272360 | 272003 | 272143 | 0.07 | cps |
| Lead | 208-1 | 1285593 | 1287742 | 1291155 | 1288164 | 0.22 | cps |
| Lithium | 6-1 | 9360916 | 9493849 | 9301394 | 9385387 | 1.05 | cps |
| Magnesium | 24-2 | 3045472 | 3022748 | 3080531 | 3049584 | 0.95 | cps |
| Manganese | 55-2 | 818554 | 828289 | 814348 | 820397 | 0.87 | cps |
| Molybdenum | 94-1 | 16306 | 16583 | 16827 | 16572 | 1.57 | cps |
| Molybdenum | 95-1 | 10714 | 11028 | 11241 | 10994 | 2.41 | cps |
| Molybdenum | 96-1 | 14151 | 13557 | 13623 | 13777 | 2.36 | cps |
| Molybdenum | 97-1 | 6715 | 6632 | 7019 | 6788 | 3.00 | cps |
| Molybdenum | 98-1 | 17371 | 17391 | 17378 | 17380 | 0.06 | cps |
| Neodymium | 150-1 | 73362 | 73560 | 73835 | 73586 | 0.32 | cps |
| Neodymium | 150-2 | 20075 | 19391 | 20182 | 19883 | 2.16 | cps |
| Nickel | 60-2 | 162081 | 161161 | 160099 | 161114 | 0.62 | cps |
| Phosphorus | 31-2 | 2434 | 2594 | 2647 | 2558 | 4.34 | cps |
| Potassium | 39-2 | 108578 | 107963 | 108987 | 108509 | 0.47 | cps |
| Rhodium | 103-1 | 15183770 | 15285020 | 15205302 | 15224697 | 0.35 | cps |
| Rhodium | 103-2 | 6230789 | 6238997 | 6266669 | 6245485 | 0.30 | cps |
| Scandium | 45-1 | 11847289 | 11943483 | 11911652 | 11900808 | 0.41 | cps |
| Scandium | 45-2 | 243850 | 243367 | 242660 | 243292 | 0.25 | cps |
| Selenium | 82-1 | 360 | 220 | 107 | 229 | 55.44 | cps |
| Selenium | 77-2 | 100 | 140 | 130 | 123 | 16.88 | cps |
| Selenium | 78-2 | 130 | 107 | 87 | 108 | 20.12 | cps |
| Silicon | 28-1 | 85237515 | 84111012 | 84819730 | 84722753 | 0.67 | cps |
| Silver | 107-1 | 7135 | 7592 | 7666 | 7464 | 3.85 | cps |
| Silver | 109-1 | 6898 | 7032 | 7079 | 7003 | 1.33 | cps |
| Sodium | 23-2 | 119336 | 120469 | 120734 | 120179 | 0.62 | cps |
| Strontium | 86-1 | 297829 | 297756 | 300403 | 298663 | 0.50 | cps |
| Strontium | 88-1 | 2688495 | 2692233 | 2643071 | 2674600 | 1.02 | cps |
| Sulfur | 34-1 | 638302 | 621797 | 612870 | 624323 | 2.07 | cps |
| Terbium | 159-1 | 20065968 | 20273168 | 20355997 | 20231711 | 0.74 | cps |
| Terbium | 159-2 | 7378496 | 7299334 | 7360302 | 7346044 | 0.56 | cps |
| Thallium | 203-1 | 3464 | 3447 | 3501 | 3470 | 0.79 | cps |
| Thallium | 205-1 | 7909 | 8343 | 9070 | 8441 | 6.95 | cps |
| Tin | 118-1 | 5938 | 5738 | 5778 | 5818 | 1.82 | cps |
| Titanium | 47-1 | 60852 | 61461 | 61180 | 61164 | 0.50 | cps |
| Uranium | 238-1 | 24317 | 24651 | 24343 | 24437 | 0.76 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:32:40 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 208830 | 207606 | 206968 | 207801 | 0.46 | cps |
| Ytterbium | 172-1 | 19241 | 19050 | 19605 | 19299 | 1.46 | cps |
| Ytterbium | 172-2 | 9073 | 8590 | 8890 | 8851 | 2.76 | cps |
| Ytterbium | 176-1 | 13280 | 13751 | 13904 | 13645 | 2.38 | cps |
| Ytterbium | 176-2 | 5575 | 5805 | 5941 | 5774 | 3.21 | cps |
| Yttrium | 89-1 | 29699067 | 29654790 | 29193750 | 29515869 | 0.95 | cps |
| Yttrium | 89-2 | 2323999 | 2240467 | 2324232 | 2296233 | 2.10 | cps |
| Zinc | 66-2 | 85989 | 86113 | 86086 | 86062 | 0.08 | cps |
| Zirconium | 90-1 | 27958 | 28579 | 28529 | 28356 | 1.22 | cps |
| Zirconium | 91-1 | 6715 | 6715 | 6502 | 6644 | 1.85 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 337980 | 334034 | 334637 | 335550 | 0.63 | cps |
| Antimony | 121-1 | 4107 | 4307 | 4021 | 4145 | 3.55 | cps |
| Arsenic | 75-2 | 4151 | 4291 | 4137 | 4193 | 2.03 | cps |
| Barium | 135-1 | 181522 | 184641 | 185100 | 183755 | 1.06 | cps |
| Barium | 137-1 | 319382 | 324672 | 320450 | 321501 | 0.87 | cps |
| Beryllium | 9-1 | 1667 | 1664 | 1662 | 1664 | 0.16 | cps |
| Bismuth | 209-1 | 12309079 | 11903371 | 12236157 | 12149536 | 1.78 | cps |
| Bismuth | 209-2 | 5615341 | 5564071 | 5517966 | 5565793 | 0.88 | cps |
| Bromine | 81-1 | 5338 | 5494 | 5391 | 5408 | 1.47 | cps |
| Cadmium | 108-1 | 67 | 57 | 57 | 60 | 9.62 | cps |
| Cadmium | 106-1 | 7162 | 7315 | 7545 | 7341 | 2.63 | cps |
| Cadmium | 111-1 | 5160 | 5301 | 5422 | 5294 | 2.48 | cps |
| Calcium | 43-1 | 66278 | 67517 | 66975 | 66923 | 0.93 | cps |
| Calcium | 44-1 | 1100936 | 1110849 | 1110683 | 1107489 | 0.51 | cps |
| Carbon | 12-1 | 6274038 | 6427696 | 6360316 | 6354017 | 1.21 | cps |
| Carbon | 12-2 | 40790 | 40425 | 40459 | 40558 | 0.50 | cps |
| Chlorine | 35-1 | 50806958 | 53197633 | 53051444 | 52352011 | 2.56 | cps |
| Chlorine | 35-2 | 229066 | 226728 | 227067 | 227620 | 0.56 | cps |
| Chromium | 52-2 | 45372 | 44857 | 45328 | 45186 | 0.63 | cps |
| Cobalt | 59-2 | 44924 | 44355 | 44225 | 44502 | 0.83 | cps |
| Copper | 63-2 | 120045 | 119655 | 120522 | 120074 | 0.36 | cps |
| Dysprosium | 156-1 | 13594 | 13373 | 13627 | 13531 | 1.02 | cps |
| Dysprosium | 156-2 | 5568 | 5478 | 5655 | 5567 | 1.59 | cps |
| Erbium | 164-1 | 13097 | 13353 | 13253 | 13234 | 0.98 | cps |
| Erbium | 164-2 | 5018 | 5361 | 4941 | 5107 | 4.38 | cps |
| Gadolinium | 160-1 | 14248 | 14638 | 14641 | 14509 | 1.56 | cps |
| Gadolinium | 160-2 | 6862 | 6605 | 6892 | 6786 | 2.32 | cps |
| Holmium | 165-1 | 19489226 | 19348707 | 19395963 | 19411299 | 0.37 | cps |
| Holmium | 165-2 | 7471267 | 7562461 | 7413469 | 7482399 | 1.00 | cps |
| Indium | 115-1 | 15837411 | 15301313 | 15951274 | 15696666 | 2.21 | cps |
| Indium | 115-2 | 1709885 | 1722488 | 1748508 | 1726961 | 1.14 | cps |
| Iron | 54-2 | 2064665 | 2047138 | 2089622 | 2067142 | 1.03 | cps |
| Iron | 56-2 | 37324027 | 37067674 | 37760298 | 37384000 | 0.94 | cps |
| Iron | 57-2 | 913591 | 908876 | 917733 | 913400 | 0.49 | cps |
| Krypton | 83-1 | 323 | 330 | 343 | 332 | 3.07 | cps |
| Lead | 206-1 | 67638 | 68201 | 68158 | 67999 | 0.46 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 55073 | 56513 | 56124 | 55903 | 1.33 | cps |
| Lead | 208-1 | 258354 | 262477 | 261679 | 260837 | 0.84 | cps |
| Lithium | 6-1 | 9249331 | 9195619 | 9275852 | 9240267 | 0.44 | cps |
| Magnesium | 24-2 | 589488 | 591754 | 591539 | 590927 | 0.21 | cps |
| Manganese | 55-2 | 164371 | 162948 | 164493 | 163937 | 0.52 | cps |
| Molybdenum | 94-1 | 3734 | 3857 | 3617 | 3736 | 3.21 | cps |
| Molybdenum | 95-1 | 2260 | 2464 | 2427 | 2384 | 4.55 | cps |
| Molybdenum | 96-1 | 2794 | 3160 | 3350 | 3101 | 9.13 | cps |
| Molybdenum | 97-1 | 1343 | 1570 | 1560 | 1491 | 8.59 | cps |
| Molybdenum | 98-1 | 3877 | 3701 | 4001 | 3859 | 3.91 | cps |
| Neodymium | 150-1 | 14408 | 14495 | 14972 | 14625 | 2.08 | cps |
| Neodymium | 150-2 | 3884 | 4047 | 3804 | 3912 | 3.17 | cps |
| Nickel | 60-2 | 31999 | 31976 | 33052 | 32342 | 1.90 | cps |
| Phosphorus | 31-2 | 647 | 653 | 490 | 597 | 15.49 | cps |
| Potassium | 39-2 | 32493 | 32680 | 32583 | 32586 | 0.29 | cps |
| Rhodium | 103-1 | 15409576 | 15182919 | 15177809 | 15256768 | 0.87 | cps |
| Rhodium | 103-2 | 6347515 | 6290771 | 6482216 | 6373501 | 1.54 | cps |
| Scandium | 45-1 | 11692247 | 11549627 | 11613779 | 11618551 | 0.61 | cps |
| Scandium | 45-2 | 238796 | 237870 | 238820 | 238495 | 0.23 | cps |
| Selenium | 82-1 | 0 | 27 | -23 | 1 | 2247.18 | cps |
| Selenium | 77-2 | 30 | 20 | 43 | 31 | 37.62 | cps |
| Selenium | 78-2 | 30 | 17 | 40 | 29 | 40.51 | cps |
| Silicon | 28-1 | 16367544 | 16722109 | 16365314 | 16484989 | 1.25 | cps |
| Silver | 107-1 | 1810 | 1857 | 1770 | 1812 | 2.39 | cps |
| Silver | 109-1 | 1567 | 1473 | 1533 | 1525 | 3.10 | cps |
| Sodium | 23-2 | 76988 | 75996 | 76157 | 76380 | 0.70 | cps |
| Strontium | 86-1 | 57879 | 59208 | 58485 | 58524 | 1.14 | cps |
| Strontium | 88-1 | 497520 | 508064 | 502928 | 502837 | 1.05 | cps |
| Sulfur | 34-1 | 594496 | 593645 | 593281 | 593807 | 0.10 | cps |
| Terbium | 159-1 | 20703488 | 20023937 | 20155433 | 20294286 | 1.78 | cps |
| Terbium | 159-2 | 7335941 | 7172999 | 7215774 | 7241571 | 1.17 | cps |
| Thallium | 203-1 | 1207 | 1117 | 1187 | 1170 | 4.04 | cps |
| Thallium | 205-1 | 2900 | 2757 | 2717 | 2791 | 3.45 | cps |
| Tin | 118-1 | 2834 | 2580 | 2534 | 2649 | 6.09 | cps |
| Titanium | 47-1 | 12435 | 12479 | 12516 | 12477 | 0.32 | cps |
| Uranium | 238-1 | 4858 | 4798 | 4648 | 4768 | 2.27 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 13:35:53 | DataFile Name : | 026AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 41430 | 40781 | 41259 | 41157 | 0.82 | cps |
| Ytterbium | 172-1 | 3774 | 3911 | 3574 | 3753 | 4.51 | cps |
| Ytterbium | 172-2 | 1700 | 1663 | 1787 | 1717 | 3.69 | cps |
| Ytterbium | 176-1 | 4277 | 4117 | 4337 | 4244 | 2.68 | cps |
| Ytterbium | 176-2 | 1377 | 1397 | 1483 | 1419 | 4.00 | cps |
| Yttrium | 89-1 | 28647396 | 28097670 | 28649041 | 28464702 | 1.12 | cps |
| Yttrium | 89-2 | 2239219 | 2235474 | 2228305 | 2234333 | 0.25 | cps |
| Zinc | 66-2 | 17561 | 17431 | 17364 | 17452 | 0.57 | cps |
| Zirconium | 90-1 | 6271 | 6291 | 6535 | 6366 | 2.30 | cps |
| Zirconium | 91-1 | 1317 | 1440 | 1403 | 1387 | 4.57 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1762488 | 1788228 | 1803263 | 1784659 | 1.16 | cps |
| Antimony | 121-1 | 364549 | 371925 | 369127 | 368534 | 1.01 | cps |
| Arsenic | 75-2 | 24695 | 24271 | 24157 | 24375 | 1.16 | cps |
| Barium | 135-1 | 2594845 | 2652408 | 2638873 | 2628709 | 1.14 | cps |
| Barium | 137-1 | 4462798 | 4578681 | 4524044 | 4521841 | 1.28 | cps |
| Beryllium | 9-1 | 72897 | 74184 | 73589 | 73557 | 0.88 | cps |
| Bismuth | 209-1 | 12286055 | 12223434 | 12202502 | 12237330 | 0.36 | cps |
| Bismuth | 209-2 | 5484142 | 5548184 | 5481323 | 5504550 | 0.69 | cps |
| Bromine | 81-1 | 7862 | 8486 | 8116 | 8155 | 3.85 | cps |
| Cadmium | 108-1 | 3017 | 3287 | 3260 | 3188 | 4.67 | cps |
| Cadmium | 106-1 | 11565 | 11101 | 11462 | 11376 | 2.14 | cps |
| Cadmium | 111-1 | 47633 | 47116 | 47852 | 47534 | 0.79 | cps |
| Calcium | 43-1 | 394188 | 400362 | 403521 | 399357 | 1.19 | cps |
| Calcium | 44-1 | 6245770 | 6386683 | 6392226 | 6341560 | 1.31 | cps |
| Carbon | 12-1 | 6847622 | 7055577 | 6986207 | 6963135 | 1.52 | cps |
| Carbon | 12-2 | 44427 | 45517 | 45493 | 45146 | 1.38 | cps |
| Chlorine | 35-1 | 213483563 | 227933837 | 232241843 | 224553081 | 4.38 | cps |
| Chlorine | 35-2 | 1010907 | 1023508 | 1031147 | 1021854 | 1.00 | cps |
| Chromium | 52-2 | 383963 | 384948 | 383500 | 384137 | 0.19 | cps |
| Cobalt | 59-2 | 1036248 | 1024623 | 1036290 | 1032387 | 0.65 | cps |
| Copper | 63-2 | 903870 | 903207 | 899971 | 902349 | 0.23 | cps |
| Dysprosium | 156-1 | 68371 | 70240 | 69298 | 69303 | 1.35 | cps |
| Dysprosium | 156-2 | 28307 | 28480 | 28607 | 28465 | 0.53 | cps |
| Erbium | 164-1 | 66345 | 66947 | 67098 | 66797 | 0.60 | cps |
| Erbium | 164-2 | 24890 | 24940 | 24930 | 24920 | 0.11 | cps |
| Gadolinium | 160-1 | 72938 | 74335 | 74671 | 73981 | 1.24 | cps |
| Gadolinium | 160-2 | 33863 | 34124 | 33780 | 33922 | 0.53 | cps |
| Holmium | 165-1 | 19883601 | 19847788 | 19622215 | 19784535 | 0.72 | cps |
| Holmium | 165-2 | 7485804 | 7369839 | 7492251 | 7449298 | 0.92 | cps |
| Indium | 115-1 | 16140984 | 16058698 | 15991810 | 16063831 | 0.47 | cps |
| Indium | 115-2 | 1726234 | 1731777 | 1750538 | 1736183 | 0.73 | cps |
| Iron | 54-2 | 10261014 | 10149811 | 10251219 | 10220681 | 0.60 | cps |
| Iron | 56-2 | 189504231 | 187783984 | 188663631 | 188650615 | 0.46 | cps |
| Iron | 57-2 | 4926716 | 4770378 | 4805427 | 4834174 | 1.70 | cps |
| Krypton | 83-1 | 523 | 490 | 447 | 487 | 7.90 | cps |
| Lead | 206-1 | 380528 | 387880 | 388492 | 385633 | 1.15 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 313538 | 316918 | 318589 | 316348 | 0.81 | cps |
| Lead | 208-1 | 1467180 | 1495210 | 1499787 | 1487392 | 1.19 | cps |
| Lithium | 6-1 | 9554666 | 9452501 | 9502196 | 9503121 | 0.54 | cps |
| Magnesium | 24-2 | 3047230 | 3031210 | 3011265 | 3029902 | 0.59 | cps |
| Manganese | 55-2 | 992916 | 997680 | 1000223 | 996940 | 0.37 | cps |
| Molybdenum | 94-1 | 570082 | 583598 | 581532 | 578404 | 1.26 | cps |
| Molybdenum | 95-1 | 964386 | 976000 | 986721 | 975703 | 1.14 | cps |
| Molybdenum | 96-1 | 1033204 | 1055957 | 1042723 | 1043961 | 1.09 | cps |
| Molybdenum | 97-1 | 601866 | 618077 | 607847 | 609263 | 1.35 | cps |
| Molybdenum | 98-1 | 1639148 | 1641827 | 1648769 | 1643248 | 0.30 | cps |
| Neodymium | 150-1 | 72032 | 75668 | 74401 | 74034 | 2.49 | cps |
| Neodymium | 150-2 | 20392 | 20202 | 19881 | 20159 | 1.28 | cps |
| Nickel | 60-2 | 383151 | 382666 | 384503 | 383440 | 0.25 | cps |
| Phosphorus | 31-2 | 2717 | 2627 | 2627 | 2657 | 1.96 | cps |
| Potassium | 39-2 | 110919 | 111392 | 112799 | 111703 | 0.88 | cps |
| Rhodium | 103-1 | 15530934 | 15331961 | 15383473 | 15415456 | 0.67 | cps |
| Rhodium | 103-2 | 6486487 | 6339533 | 6362515 | 6396178 | 1.24 | cps |
| Scandium | 45-1 | 12227882 | 12035901 | 12029445 | 12097743 | 0.93 | cps |
| Scandium | 45-2 | 246025 | 245223 | 244175 | 245141 | 0.38 | cps |
| Selenium | 82-1 | 1080 | 1070 | 1160 | 1103 | 4.47 | cps |
| Selenium | 77-2 | 150 | 150 | 103 | 134 | 20.04 | cps |
| Selenium | 78-2 | 173 | 163 | 153 | 163 | 6.12 | cps |
| Silicon | 28-1 | 84884799 | 89305352 | 87809672 | 87333274 | 2.57 | cps |
| Silver | 107-1 | 212861 | 220654 | 218849 | 217455 | 1.88 | cps |
| Silver | 109-1 | 201956 | 208063 | 207121 | 205713 | 1.60 | cps |
| Sodium | 23-2 | 118567 | 120898 | 121241 | 120235 | 1.21 | cps |
| Strontium | 86-1 | 11749688 | 11667563 | 11455947 | 11624399 | 1.30 | cps |
| Strontium | 88-1 | 101568328 | 101082138 | 100299619 | 100983362 | 0.63 | cps |
| Sulfur | 34-1 | 596225 | 588764 | 586871 | 590620 | 0.84 | cps |
| Terbium | 159-1 | 20566569 | 20413694 | 20300203 | 20426822 | 0.65 | cps |
| Terbium | 159-2 | 7279333 | 7368131 | 7299808 | 7315758 | 0.64 | cps |
| Thallium | 203-1 | 156283 | 159999 | 161585 | 159289 | 1.71 | cps |
| Thallium | 205-1 | 380318 | 382762 | 383225 | 382102 | 0.41 | cps |
| Tin | 118-1 | 8090 | 5585 | 5478 | 6384 | 23.16 | cps |
| Titanium | 47-1 | 59349 | 60366 | 61113 | 60276 | 1.47 | cps |
| Uranium | 238-1 | 24267 | 24751 | 24450 | 24489 | 1.00 | cps |



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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:39:12 | DataFile Name : | 027AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 540010 | 534311 | 540650 | 538323 | 0.65 | cps |
| Ytterbium | 172-1 | 18970 | 19144 | 19765 | 19293 | 2.17 | cps |
| Ytterbium | 172-2 | 9016 | 8820 | 9033 | 8956 | 1.33 | cps |
| Ytterbium | 176-1 | 13200 | 13437 | 13767 | 13468 | 2.12 | cps |
| Ytterbium | 176-2 | 5831 | 5855 | 5658 | 5781 | 1.86 | cps |
| Yttrium | 89-1 | 30158977 | 29321116 | 29133224 | 29537772 | 1.85 | cps |
| Yttrium | 89-2 | 2289907 | 2315143 | 2287693 | 2297581 | 0.66 | cps |
| Zinc | 66-2 | 153777 | 155310 | 152585 | 153891 | 0.89 | cps |
| Zirconium | 90-1 | 27257 | 27808 | 28309 | 27791 | 1.89 | cps |
| Zirconium | 91-1 | 6245 | 6281 | 6322 | 6283 | 0.61 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2274 | 2207 | 2317 | 2266 | 2.45 | cps |
| Antimony | 121-1 | 153 | 103 | 107 | 121 | 23.08 | cps |
| Arsenic | 75-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Barium | 135-1 | 433 | 353 | 360 | 382 | 11.61 | cps |
| Barium | 137-1 | 537 | 403 | 423 | 454 | 15.82 | cps |
| Beryllium | 9-1 | 379 | 409 | 382 | 390 | 4.19 | cps |
| Bismuth | 209-1 | 12032972 | 12078667 | 12278667 | 12130102 | 1.08 | cps |
| Bismuth | 209-2 | 5622515 | 5634914 | 5736073 | 5664501 | 1.10 | cps |
| Bromine | 81-1 | 4758 | 4631 | 4691 | 4693 | 1.35 | cps |
| Cadmium | 108-1 | 23 | 13 | 23 | 20 | 28.87 | cps |
| Cadmium | 106-1 | 7352 | 7152 | 7335 | 7280 | 1.53 | cps |
| Cadmium | 111-1 | 5177 | 5034 | 5152 | 5121 | 1.49 | cps |
| Calcium | 43-1 | 510 | 467 | 490 | 489 | 4.44 | cps |
| Calcium | 44-1 | 33519 | 33192 | 32216 | 32976 | 2.06 | cps |
| Carbon | 12-1 | 6348860 | 6370376 | 6439226 | 6386154 | 0.74 | cps |
| Carbon | 12-2 | 42568 | 41692 | 42548 | 42269 | 1.18 | cps |
| Chlorine | 35-1 | 13994164 | 12702634 | 11513723 | 12736840 | 9.74 | cps |
| Chlorine | 35-2 | 41984 | 40590 | 37726 | 40100 | 5.41 | cps |
| Chromium | 52-2 | 1073 | 1250 | 1273 | 1199 | 9.12 | cps |
| Cobalt | 59-2 | 163 | 160 | 147 | 157 | 5.63 | cps |
| Copper | 63-2 | 5621 | 5698 | 5835 | 5718 | 1.89 | cps |
| Dysprosium | 156-1 | 27 | 23 | 20 | 23 | 14.29 | cps |
| Dysprosium | 156-2 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Erbium | 164-1 | 100 | 93 | 90 | 94 | 5.39 | cps |
| Erbium | 164-2 | 33 | 37 | 37 | 36 | 5.42 | cps |
| Gadolinium | 160-1 | 113 | 130 | 123 | 122 | 6.86 | cps |
| Gadolinium | 160-2 | 13 | 10 | 20 | 14 | 35.26 | cps |
| Holmium | 165-1 | 19528713 | 19446176 | 19343748 | 19439546 | 0.48 | cps |
| Holmium | 165-2 | 7650811 | 7542383 | 7522175 | 7571789 | 0.91 | cps |
| Indium | 115-1 | 16088011 | 15851424 | 15622206 | 15853880 | 1.47 | cps |
| Indium | 115-2 | 1779436 | 1789784 | 1791852 | 1787024 | 0.37 | cps |
| Iron | 54-2 | 1193 | 1170 | 1040 | 1135 | 7.28 | cps |
| Iron | 56-2 | 19507 | 18563 | 16036 | 18035 | 9.95 | cps |
| Iron | 57-2 | 507 | 423 | 480 | 470 | 9.06 | cps |
| Krypton | 83-1 | 310 | 347 | 257 | 304 | 14.87 | cps |
| Lead | 206-1 | 2414 | 2367 | 2230 | 2337 | 4.08 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2057 | 1987 | 1810 | 1951 | 6.52 | cps |
| Lead | 208-1 | 9465 | 9238 | 8681 | 9128 | 4.42 | cps |
| Lithium | 6-1 | 9128261 | 9261173 | 9068561 | 9152665 | 1.08 | cps |
| Magnesium | 24-2 | 1910 | 1797 | 1827 | 1845 | 3.18 | cps |
| Manganese | 55-2 | 230 | 200 | 190 | 207 | 10.07 | cps |
| Molybdenum | 94-1 | 453 | 480 | 493 | 476 | 4.28 | cps |
| Molybdenum | 95-1 | 357 | 343 | 197 | 299 | 29.70 | cps |
| Molybdenum | 96-1 | 387 | 380 | 393 | 387 | 1.72 | cps |
| Molybdenum | 97-1 | 207 | 200 | 217 | 208 | 4.04 | cps |
| Molybdenum | 98-1 | 480 | 430 | 543 | 484 | 11.72 | cps |
| Neodymium | 150-1 | 20 | 20 | 30 | 23 | 24.74 | cps |
| Neodymium | 150-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Nickel | 60-2 | 733 | 917 | 877 | 842 | 11.45 | cps |
| Phosphorus | 31-2 | 93 | 107 | 107 | 102 | 7.53 | cps |
| Potassium | 39-2 | 13386 | 13573 | 13980 | 13647 | 2.23 | cps |
| Rhodium | 103-1 | 15444821 | 15414268 | 15178296 | 15345795 | 0.95 | cps |
| Rhodium | 103-2 | 6399306 | 6400496 | 6493278 | 6431027 | 0.84 | cps |
| Scandium | 45-1 | 11533108 | 11255375 | 11458275 | 11415586 | 1.26 | cps |
| Scandium | 45-2 | 238427 | 235446 | 236182 | 236685 | 0.66 | cps |
| Selenium | 82-1 | -53 | -100 | 47 | -36 | -210.75 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 10 | 37 | 18 | 92.48 | cps |
| Silicon | 28-1 | 662494 | 665371 | 666144 | 664670 | 0.29 | cps |
| Silver | 107-1 | 563 | 513 | 480 | 519 | 8.08 | cps |
| Silver | 109-1 | 420 | 433 | 363 | 406 | 9.17 | cps |
| Sodium | 23-2 | 69571 | 68500 | 68825 | 68965 | 0.80 | cps |
| Strontium | 86-1 | 1483 | 1480 | 1283 | 1416 | 8.09 | cps |
| Strontium | 88-1 | 8420 | 8794 | 6382 | 7865 | 16.51 | cps |
| Sulfur | 34-1 | 595609 | 595989 | 598289 | 596629 | 0.24 | cps |
| Terbium | 159-1 | 20076648 | 19797390 | 19872422 | 19915487 | 0.73 | cps |
| Terbium | 159-2 | 7380266 | 7316542 | 7325484 | 7340764 | 0.47 | cps |
| Thallium | 203-1 | 760 | 673 | 607 | 680 | 11.31 | cps |
| Thallium | 205-1 | 1760 | 1823 | 1670 | 1751 | 4.40 | cps |
| Tin | 118-1 | 2064 | 1980 | 1963 | 2002 | 2.68 | cps |
| Titanium | 47-1 | 323 | 250 | 317 | 297 | 13.67 | cps |
| Uranium | 238-1 | 47 | 27 | 33 | 36 | 28.64 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:42:22 | DataFile Name : | 028CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 43 | 47 | 57 | 49 | 14.20 | cps |
| Ytterbium | 172-1 | 107 | 127 | 93 | 109 | 15.41 | cps |
| Ytterbium | 172-2 | 23 | 47 | 53 | 41 | 38.32 | cps |
| Ytterbium | 176-1 | 1873 | 1787 | 1830 | 1830 | 2.37 | cps |
| Ytterbium | 176-2 | 337 | 280 | 353 | 323 | 11.89 | cps |
| Yttrium | 89-1 | 28121682 | 28208851 | 28051239 | 28127257 | 0.28 | cps |
| Yttrium | 89-2 | 2227866 | 2234095 | 2254717 | 2238893 | 0.63 | cps |
| Zinc | 66-2 | 353 | 323 | 347 | 341 | 4.62 | cps |
| Zirconium | 90-1 | 1033 | 1120 | 983 | 1046 | 6.61 | cps |
| Zirconium | 91-1 | 163 | 157 | 203 | 174 | 14.47 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3640 | 3347 | 3510 | 3499 | 4.20 | cps |
| Antimony | 121-1 | 71314 | 72883 | 72605 | 72267 | 1.16 | cps |
| Arsenic | 75-2 | 870 | 830 | 707 | 802 | 10.61 | cps |
| Barium | 135-1 | 82312 | 83331 | 84008 | 83217 | 1.03 | cps |
| Barium | 137-1 | 145251 | 145361 | 145257 | 145290 | 0.04 | cps |
| Beryllium | 9-1 | 14688 | 14813 | 14670 | 14724 | 0.53 | cps |
| Bismuth | 209-1 | 12568279 | 12031134 | 12368924 | 12322779 | 2.20 | cps |
| Bismuth | 209-2 | 5580530 | 5631957 | 5612088 | 5608192 | 0.46 | cps |
| Bromine | 81-1 | 4838 | 4818 | 4921 | 4859 | 1.13 | cps |
| Cadmium | 108-1 | 667 | 743 | 807 | 739 | 9.49 | cps |
| Cadmium | 106-1 | 8199 | 8122 | 8429 | 8250 | 1.94 | cps |
| Cadmium | 111-1 | 14149 | 14205 | 14199 | 14184 | 0.22 | cps |
| Calcium | 43-1 | 61705 | 61641 | 62200 | 61849 | 0.49 | cps |
| Calcium | 44-1 | 1025915 | 1028159 | 1032511 | 1028862 | 0.33 | cps |
| Carbon | 12-1 | 6552620 | 6758098 | 6770214 | 6693644 | 1.83 | cps |
| Carbon | 12-2 | 44634 | 44795 | 44741 | 44723 | 0.18 | cps |
| Chlorine | 35-1 | 7399696 | 7425849 | 7294941 | 7373495 | 0.94 | cps |
| Chlorine | 35-2 | 29012 | 28041 | 28141 | 28398 | 1.88 | cps |
| Chromium | 52-2 | 18559 | 18188 | 18876 | 18541 | 1.86 | cps |
| Cobalt | 59-2 | 17578 | 17568 | 17261 | 17469 | 1.03 | cps |
| Copper | 63-2 | 34652 | 34104 | 34255 | 34337 | 0.82 | cps |
| Dysprosium | 156-1 | 27 | 40 | 27 | 31 | 24.74 | cps |
| Dysprosium | 156-2 | 7 | 13 | 3 | 8 | 65.47 | cps |
| Erbium | 164-1 | 110 | 90 | 100 | 100 | 10.00 | cps |
| Erbium | 164-2 | 43 | 37 | 33 | 38 | 13.48 | cps |
| Gadolinium | 160-1 | 100 | 117 | 157 | 124 | 23.40 | cps |
| Gadolinium | 160-2 | 7 | 20 | 13 | 13 | 49.99 | cps |
| Holmium | 165-1 | 19565556 | 19119774 | 19347311 | 19344214 | 1.15 | cps |
| Holmium | 165-2 | 7542050 | 7575041 | 7408020 | 7508370 | 1.18 | cps |
| Indium | 115-1 | 15938629 | 15898064 | 15933164 | 15923285 | 0.14 | cps |
| Indium | 115-2 | 1766506 | 1752352 | 1751740 | 1756866 | 0.48 | cps |
| Iron | 54-2 | 74175 | 73548 | 73029 | 73584 | 0.78 | cps |
| Iron | 56-2 | 1352827 | 1335482 | 1335979 | 1341429 | 0.74 | cps |
| Iron | 57-2 | 33633 | 33974 | 33880 | 33829 | 0.52 | cps |
| Krypton | 83-1 | 273 | 300 | 263 | 279 | 6.80 | cps |
| Lead | 206-1 | 28996 | 29978 | 29477 | 29484 | 1.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 25979 | 25535 | 25298 | 25604 | 1.35 | cps |
| Lead | 208-1 | 116400 | 117189 | 116997 | 116862 | 0.35 | cps |
| Lithium | 6-1 | 9087727 | 8915022 | 9006826 | 9003192 | 0.96 | cps |
| Magnesium | 24-2 | 282291 | 286409 | 283872 | 284191 | 0.73 | cps |
| Manganese | 55-2 | 3744 | 3877 | 3764 | 3795 | 1.90 | cps |
| Molybdenum | 94-1 | 74706 | 76603 | 76405 | 75904 | 1.37 | cps |
| Molybdenum | 95-1 | 89264 | 89009 | 89758 | 89344 | 0.43 | cps |
| Molybdenum | 96-1 | 99842 | 100020 | 99735 | 99866 | 0.14 | cps |
| Molybdenum | 97-1 | 56384 | 56063 | 56809 | 56418 | 0.66 | cps |
| Molybdenum | 98-1 | 142146 | 144591 | 144295 | 143677 | 0.93 | cps |
| Neodymium | 150-1 | 33 | 17 | 33 | 28 | 34.63 | cps |
| Neodymium | 150-2 | 0 | 3 | 10 | 4 | 114.60 | cps |
| Nickel | 60-2 | 6015 | 5364 | 5791 | 5723 | 5.77 | cps |
| Phosphorus | 31-2 | 347 | 317 | 240 | 301 | 18.27 | cps |
| Potassium | 39-2 | 183011 | 181253 | 183554 | 182606 | 0.66 | cps |
| Rhodium | 103-1 | 15579752 | 15348210 | 15443813 | 15457258 | 0.75 | cps |
| Rhodium | 103-2 | 6370986 | 6404574 | 6325934 | 6367165 | 0.62 | cps |
| Scandium | 45-1 | 11678578 | 11337941 | 11398066 | 11471528 | 1.58 | cps |
| Scandium | 45-2 | 236732 | 235470 | 237652 | 236618 | 0.46 | cps |
| Selenium | 82-1 | 2747 | 2607 | 2684 | 2679 | 2.62 | cps |
| Selenium | 77-2 | 63 | 47 | 57 | 56 | 15.09 | cps |
| Selenium | 78-2 | 197 | 157 | 223 | 192 | 17.46 | cps |
| Silicon | 28-1 | 954422 | 937278 | 932889 | 941529 | 1.21 | cps |
| Silver | 107-1 | 44712 | 44869 | 45388 | 44990 | 0.79 | cps |
| Silver | 109-1 | 42134 | 42238 | 43318 | 42563 | 1.54 | cps |
| Sodium | 23-2 | 650408 | 648104 | 646365 | 648292 | 0.31 | cps |
| Strontium | 86-1 | 12012 | 12182 | 12652 | 12282 | 2.70 | cps |
| Strontium | 88-1 | 101529 | 103050 | 101163 | 101914 | 0.98 | cps |
| Sulfur | 34-1 | 647022 | 655053 | 653621 | 651898 | 0.66 | cps |
| Terbium | 159-1 | 20057137 | 19976593 | 20327728 | 20120486 | 0.91 | cps |
| Terbium | 159-2 | 7251669 | 7239077 | 7255008 | 7248585 | 0.12 | cps |
| Thallium | 203-1 | 33577 | 34690 | 34536 | 34267 | 1.76 | cps |
| Thallium | 205-1 | 82356 | 83121 | 82218 | 82565 | 0.59 | cps |
| Tin | 118-1 | 144954 | 146056 | 147222 | 146077 | 0.78 | cps |
| Titanium | 47-1 | 7245 | 7322 | 7242 | 7270 | 0.62 | cps |
| Uranium | 238-1 | 104230 | 104916 | 104435 | 104527 | 0.34 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:45:42 | DataFile Name : | 029LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 35123 | 35564 | 35414 | 35367 | 0.63 | cps |
| Ytterbium | 172-1 | 77 | 103 | 77 | 86 | 18.00 | cps |
| Ytterbium | 172-2 | 70 | 40 | 60 | 57 | 26.96 | cps |
| Ytterbium | 176-1 | 1840 | 1977 | 2027 | 1948 | 4.96 | cps |
| Ytterbium | 176-2 | 383 | 447 | 447 | 426 | 8.59 | cps |
| Yttrium | 89-1 | 28897440 | 28102754 | 27997130 | 28332441 | 1.74 | cps |
| Yttrium | 89-2 | 2222919 | 2205757 | 2182960 | 2203879 | 0.91 | cps |
| Zinc | 66-2 | 7425 | 7339 | 7505 | 7423 | 1.12 | cps |
| Zirconium | 90-1 | 62513 | 62265 | 63092 | 62623 | 0.68 | cps |
| Zirconium | 91-1 | 14064 | 13407 | 13914 | 13795 | 2.50 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 713 | 733 | 757 | 734 | 2.95 | cps |
| Antimony | 121-1 | 913 | 917 | 823 | 884 | 5.99 | cps |
| Arsenic | 75-2 | 190 | 190 | 127 | 169 | 21.65 | cps |
| Barium | 135-1 | 72818 | 74041 | 73609 | 73489 | 0.84 | cps |
| Barium | 137-1 | 126976 | 128682 | 128087 | 127915 | 0.68 | cps |
| Beryllium | 9-1 | 354 | 389 | 319 | 354 | 9.90 | cps |
| Bismuth | 209-1 | 11060901 | 11161145 | 11207896 | 11143314 | 0.67 | cps |
| Bismuth | 209-2 | 5074105 | 5082522 | 5039946 | 5065524 | 0.45 | cps |
| Bromine | 81-1 | 96966 | 110182 | 118334 | 108494 | 9.94 | cps |
| Cadmium | 108-1 | 37 | 23 | 40 | 33 | 26.47 | cps |
| Cadmium | 106-1 | 7365 | 7629 | 7602 | 7532 | 1.93 | cps |
| Cadmium | 111-1 | 5173 | 5351 | 5317 | 5280 | 1.78 | cps |
| Calcium | 43-1 | 20993106 | 21348236 | 21150193 | 21163845 | 0.84 | cps |
| Calcium | 44-1 | 343637182 | 345102355 | 339585088 | 342774875 | 0.83 | cps |
| Carbon | 12-1 | 9440204 | 10063204 | 10378838 | 9960749 | 4.80 | cps |
| Carbon | 12-2 | 72266 | 70418 | 71968 | 71551 | 1.39 | cps |
| Chlorine | 35-1 | 5456261 | 5691753 | 5665600 | 5604538 | 2.30 | cps |
| Chlorine | 35-2 | 23763 | 23720 | 22768 | 23417 | 2.40 | cps |
| Chromium | 52-2 | 1700 | 1827 | 1727 | 1751 | 3.81 | cps |
| Cobalt | 59-2 | 273 | 303 | 267 | 281 | 6.95 | cps |
| Copper | 63-2 | 3781 | 4094 | 3717 | 3864 | 5.22 | cps |
| Dysprosium | 156-1 | 207 | 263 | 210 | 227 | 14.03 | cps |
| Dysprosium | 156-2 | 93 | 73 | 90 | 86 | 12.53 | cps |
| Erbium | 164-1 | 313 | 293 | 380 | 329 | 13.80 | cps |
| Erbium | 164-2 | 97 | 80 | 137 | 104 | 27.88 | cps |
| Gadolinium | 160-1 | 337 | 303 | 300 | 313 | 6.47 | cps |
| Gadolinium | 160-2 | 90 | 140 | 117 | 116 | 21.65 | cps |
| Holmium | 165-1 | 18700440 | 18967538 | 19081408 | 18916462 | 1.03 | cps |
| Holmium | 165-2 | 7140163 | 7167668 | 7077194 | 7128342 | 0.65 | cps |
| Indium | 115-1 | 14809087 | 14944932 | 15117456 | 14957158 | 1.03 | cps |
| Indium | 115-2 | 1609065 | 1621669 | 1578635 | 1603123 | 1.38 | cps |
| Iron | 54-2 | 131341 | 131277 | 130197 | 130938 | 0.49 | cps |
| Iron | 56-2 | 2504404 | 2498158 | 2526374 | 2509645 | 0.59 | cps |
| Iron | 57-2 | 60705 | 61649 | 60738 | 61031 | 0.88 | cps |
| Krypton | 83-1 | 350 | 313 | 280 | 314 | 11.13 | cps |
| Lead | 206-1 | 2307 | 2374 | 2237 | 2306 | 2.96 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2040 | 1947 | 1847 | 1945 | 4.97 | cps |
| Lead | 208-1 | 9015 | 9068 | 8458 | 8847 | 3.82 | cps |
| Lithium | 6-1 | 8584584 | 8687979 | 8528139 | 8600234 | 0.94 | cps |
| Magnesium | 24-2 | 30844900 | 30425172 | 30850059 | 30706710 | 0.79 | cps |
| Manganese | 55-2 | 41610 | 41360 | 42068 | 41679 | 0.86 | cps |
| Molybdenum | 94-1 | 3060 | 2870 | 2810 | 2914 | 4.48 | cps |
| Molybdenum | 95-1 | 3134 | 2994 | 3314 | 3147 | 5.10 | cps |
| Molybdenum | 96-1 | 3484 | 3530 | 3507 | 3507 | 0.67 | cps |
| Molybdenum | 97-1 | 1923 | 1913 | 1974 | 1937 | 1.66 | cps |
| Molybdenum | 98-1 | 4848 | 4794 | 4774 | 4805 | 0.79 | cps |
| Neodymium | 150-1 | 323 | 290 | 303 | 306 | 5.49 | cps |
| Neodymium | 150-2 | 77 | 67 | 73 | 72 | 7.05 | cps |
| Nickel | 60-2 | 767 | 657 | 713 | 712 | 7.72 | cps |
| Phosphorus | 31-2 | 147 | 87 | 107 | 113 | 26.96 | cps |
| Potassium | 39-2 | 568699 | 561432 | 558594 | 562908 | 0.93 | cps |
| Rhodium | 103-1 | 13848901 | 13999196 | 13903264 | 13917120 | 0.55 | cps |
| Rhodium | 103-2 | 5693400 | 5750669 | 5607111 | 5683727 | 1.27 | cps |
| Scandium | 45-1 | 11188921 | 11147883 | 11019732 | 11118845 | 0.79 | cps |
| Scandium | 45-2 | 223118 | 221066 | 222076 | 222087 | 0.46 | cps |
| Selenium | 82-1 | 30 | 80 | 113 | 74 | 56.34 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 7 | 10 | 10 | 9 | 21.63 | cps |
| Silicon | 28-1 | 82371377 | 82534159 | 82075294 | 82326943 | 0.28 | cps |
| Silver | 107-1 | 793 | 747 | 613 | 718 | 13.01 | cps |
| Silver | 109-1 | 577 | 440 | 437 | 484 | 16.49 | cps |
| Sodium | 23-2 | 16920482 | 16536877 | 16925226 | 16794195 | 1.33 | cps |
| Strontium | 86-1 | 78065329 | 77585579 | 78677424 | 78109444 | 0.70 | cps |
| Strontium | 88-1 | 664228417 | 674460937 | 680102630 | 672930661 | 1.20 | cps |
| Sulfur | 34-1 | 32700710 | 32903475 | 32707637 | 32770607 | 0.35 | cps |
| Terbium | 159-1 | 19474668 | 19383788 | 19034938 | 19297798 | 1.20 | cps |
| Terbium | 159-2 | 6984218 | 6943341 | 6964783 | 6964114 | 0.29 | cps |
| Thallium | 203-1 | 490 | 490 | 453 | 478 | 4.43 | cps |
| Thallium | 205-1 | 1290 | 1200 | 1137 | 1209 | 6.37 | cps |
| Tin | 118-1 | 12643 | 12412 | 13026 | 12694 | 2.44 | cps |
| Titanium | 47-1 | 1647 | 1807 | 1827 | 1760 | 5.61 | cps |
| Uranium | 238-1 | 11132 | 10858 | 10928 | 10973 | 1.30 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:48:59 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 343 | 340 | 363 | 349 | 3.62 | cps |
| Ytterbium | 172-1 | 237 | 203 | 203 | 214 | 8.97 | cps |
| Ytterbium | 172-2 | 63 | 100 | 117 | 93 | 29.24 | cps |
| Ytterbium | 176-1 | 1747 | 2064 | 1873 | 1895 | 8.41 | cps |
| Ytterbium | 176-2 | 307 | 327 | 300 | 311 | 4.46 | cps |
| Yttrium | 89-1 | 26874901 | 27453738 | 27049205 | 27125948 | 1.09 | cps |
| Yttrium | 89-2 | 2055193 | 2092624 | 2029857 | 2059225 | 1.53 | cps |
| Zinc | 66-2 | 737 | 657 | 723 | 706 | 6.07 | cps |
| Zirconium | 90-1 | 3584 | 3357 | 3234 | 3392 | 5.24 | cps |
| Zirconium | 91-1 | 833 | 743 | 663 | 747 | 11.39 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 523 | 473 | 497 | 498 | 5.03 | cps |
| Antimony | 121-1 | 90 | 123 | 110 | 108 | 15.57 | cps |
| Arsenic | 75-2 | 27 | 20 | 13 | 20 | 33.35 | cps |
| Barium | 135-1 | 33575 | 33979 | 34350 | 33968 | 1.14 | cps |
| Barium | 137-1 | 59460 | 60274 | 60675 | 60136 | 1.03 | cps |
| Beryllium | 9-1 | 451 | 417 | 461 | 443 | 5.17 | cps |
| Bismuth | 209-1 | 10984404 | 10257383 | 11344865 | 10862217 | 5.10 | cps |
| Bismuth | 209-2 | 4815334 | 4960863 | 4858719 | 4878306 | 1.53 | cps |
| Bromine | 81-1 | 125910 | 156551 | 172912 | 151791 | 15.72 | cps |
| Cadmium | 108-1 | 17 | 27 | 33 | 26 | 32.81 | cps |
| Cadmium | 106-1 | 7435 | 7025 | 7532 | 7331 | 3.67 | cps |
| Cadmium | 111-1 | 5233 | 4929 | 5286 | 5149 | 3.74 | cps |
| Calcium | 43-1 | 20483136 | 20303502 | 20206702 | 20331113 | 0.69 | cps |
| Calcium | 44-1 | 325659608 | 329150735 | 326440842 | 327083728 | 0.56 | cps |
| Carbon | 12-1 | 9726294 | 10453586 | 10830430 | 10336770 | 5.43 | cps |
| Carbon | 12-2 | 73727 | 73422 | 73931 | 73693 | 0.35 | cps |
| Chlorine | 35-1 | 19653239 | 21770171 | 22599989 | 21341133 | 7.12 | cps |
| Chlorine | 35-2 | 97740 | 99069 | 100767 | 99192 | 1.53 | cps |
| Chromium | 52-2 | 1530 | 1727 | 1777 | 1678 | 7.77 | cps |
| Cobalt | 59-2 | 393 | 410 | 407 | 403 | 2.19 | cps |
| Copper | 63-2 | 5368 | 5561 | 5635 | 5521 | 2.50 | cps |
| Dysprosium | 156-1 | 20 | 23 | 27 | 23 | 14.29 | cps |
| Dysprosium | 156-2 | 23 | 7 | 7 | 12 | 78.69 | cps |
| Erbium | 164-1 | 123 | 137 | 80 | 113 | 26.14 | cps |
| Erbium | 164-2 | 43 | 47 | 40 | 43 | 7.70 | cps |
| Gadolinium | 160-1 | 163 | 137 | 110 | 137 | 19.51 | cps |
| Gadolinium | 160-2 | 33 | 7 | 20 | 20 | 66.65 | cps |
| Holmium | 165-1 | 18031290 | 17412389 | 18916480 | 18120053 | 4.17 | cps |
| Holmium | 165-2 | 6963575 | 7129561 | 7006983 | 7033373 | 1.22 | cps |
| Indium | 115-1 | 14471368 | 13736966 | 14909671 | 14372668 | 4.12 | cps |
| Indium | 115-2 | 1480660 | 1583820 | 1483929 | 1516136 | 3.87 | cps |
| Iron | 54-2 | 4974 | 4311 | 4461 | 4582 | 7.59 | cps |
| Iron | 56-2 | 78809 | 80814 | 79956 | 79860 | 1.26 | cps |
| Iron | 57-2 | 2530 | 2740 | 2637 | 2636 | 3.98 | cps |
| Krypton | 83-1 | 323 | 287 | 297 | 302 | 6.27 | cps |
| Lead | 206-1 | 2344 | 2270 | 2504 | 2372 | 5.03 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1974 | 1837 | 1870 | 1893 | 3.76 | cps |
| Lead | 208-1 | 9245 | 8544 | 9025 | 8938 | 4.01 | cps |
| Lithium | 6-1 | 8533961 | 8137563 | 8522171 | 8397898 | 2.69 | cps |
| Magnesium | 24-2 | 30858075 | 30135922 | 30394406 | 30462801 | 1.20 | cps |
| Manganese | 55-2 | 12682 | 12609 | 12969 | 12754 | 1.49 | cps |
| Molybdenum | 94-1 | 837 | 813 | 867 | 839 | 3.19 | cps |
| Molybdenum | 95-1 | 377 | 377 | 387 | 380 | 1.52 | cps |
| Molybdenum | 96-1 | 510 | 407 | 480 | 466 | 11.42 | cps |
| Molybdenum | 97-1 | 193 | 227 | 203 | 208 | 8.23 | cps |
| Molybdenum | 98-1 | 460 | 510 | 557 | 509 | 9.50 | cps |
| Neodymium | 150-1 | 37 | 40 | 30 | 36 | 14.32 | cps |
| Neodymium | 150-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 857 | 753 | 900 | 837 | 9.01 | cps |
| Phosphorus | 31-2 | 117 | 123 | 107 | 116 | 7.26 | cps |
| Potassium | 39-2 | 658358 | 659628 | 659397 | 659128 | 0.10 | cps |
| Rhodium | 103-1 | 13064168 | 12735043 | 13712441 | 13170551 | 3.78 | cps |
| Rhodium | 103-2 | 5441097 | 5630827 | 5456815 | 5509580 | 1.91 | cps |
| Scandium | 45-1 | 10689411 | 10155671 | 11083534 | 10642872 | 4.38 | cps |
| Scandium | 45-2 | 214507 | 218034 | 217487 | 216676 | 0.88 | cps |
| Selenium | 82-1 | 50 | 107 | 170 | 109 | 55.13 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 20 | 3 | 13 | 12 | 68.66 | cps |
| Silicon | 28-1 | 92715532 | 94303445 | 92937772 | 93318916 | 0.92 | cps |
| Silver | 107-1 | 697 | 683 | 683 | 688 | 1.12 | cps |
| Silver | 109-1 | 427 | 410 | 523 | 453 | 13.50 | cps |
| Sodium | 23-2 | 64888739 | 63816136 | 64469472 | 64391449 | 0.84 | cps |
| Strontium | 86-1 | 80297955 | 80248672 | 80583327 | 80376652 | 0.22 | cps |
| Strontium | 88-1 | 678042390 | 681476897 | 682714083 | 680744457 | 0.36 | cps |
| Sulfur | 34-1 | 27856648 | 28219558 | 27674691 | 27916966 | 0.99 | cps |
| Terbium | 159-1 | 18892779 | 17903127 | 19210079 | 18668662 | 3.65 | cps |
| Terbium | 159-2 | 6710216 | 6739669 | 6600633 | 6683506 | 1.10 | cps |
| Thallium | 203-1 | 453 | 363 | 310 | 376 | 19.29 | cps |
| Thallium | 205-1 | 913 | 1033 | 980 | 976 | 6.16 | cps |
| Tin | 118-1 | 7302 | 7802 | 7495 | 7533 | 3.35 | cps |
| Titanium | 47-1 | 2594 | 2747 | 2567 | 2636 | 3.69 | cps |
| Uranium | 238-1 | 850 | 907 | 997 | 918 | 8.06 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2949 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:52:13 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 130 | 117 | 157 | 134 | 15.15 | cps |
| Ytterbium | 172-1 | 80 | 93 | 90 | 88 | 7.90 | cps |
| Ytterbium | 172-2 | 27 | 37 | 30 | 31 | 16.37 | cps |
| Ytterbium | 176-1 | 1790 | 1613 | 1890 | 1765 | 7.94 | cps |
| Ytterbium | 176-2 | 283 | 297 | 260 | 280 | 6.63 | cps |
| Yttrium | 89-1 | 25980760 | 24847527 | 26727865 | 25852051 | 3.66 | cps |
| Yttrium | 89-2 | 1995050 | 2042909 | 1977404 | 2005121 | 1.69 | cps |
| Zinc | 66-2 | 773 | 870 | 787 | 810 | 6.47 | cps |
| Zirconium | 90-1 | 1877 | 1840 | 2034 | 1917 | 5.36 | cps |
| Zirconium | 91-1 | 400 | 410 | 410 | 407 | 1.42 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 119883 | 118968 | 120241 | 119697 | 0.55 | cps |
| Antimony | 121-1 | 5044 | 4888 | 4934 | 4955 | 1.62 | cps |
| Arsenic | 75-2 | 100 | 77 | 107 | 94 | 16.68 | cps |
| Barium | 135-1 | 58643 | 60849 | 60079 | 59857 | 1.87 | cps |
| Barium | 137-1 | 102220 | 105403 | 107315 | 104979 | 2.45 | cps |
| Beryllium | 9-1 | 450 | 431 | 456 | 446 | 2.92 | cps |
| Bismuth | 209-1 | 11497410 | 11509020 | 11526747 | 11511059 | 0.13 | cps |
| Bismuth | 209-2 | 5240706 | 5266331 | 5109231 | 5205423 | 1.62 | cps |
| Bromine | 81-1 | 134357 | 150613 | 164468 | 149813 | 10.06 | cps |
| Cadmium | 108-1 | 23 | 40 | 20 | 28 | 38.58 | cps |
| Cadmium | 106-1 | 7626 | 7382 | 7922 | 7643 | 3.54 | cps |
| Cadmium | 111-1 | 5382 | 5206 | 5595 | 5394 | 3.61 | cps |
| Calcium | 43-1 | 15522474 | 15594621 | 16103739 | 15740278 | 2.01 | cps |
| Calcium | 44-1 | 247459310 | 249814156 | 253759463 | 250344310 | 1.27 | cps |
| Carbon | 12-1 | 9638216 | 10335418 | 10666827 | 10213487 | 5.14 | cps |
| Carbon | 12-2 | 71292 | 71693 | 72601 | 71862 | 0.93 | cps |
| Chlorine | 35-1 | 6419174 | 6672249 | 6776469 | 6622631 | 2.77 | cps |
| Chlorine | 35-2 | 28258 | 28117 | 27980 | 28119 | 0.49 | cps |
| Chromium | 52-2 | 2067 | 2114 | 1967 | 2049 | 3.66 | cps |
| Cobalt | 59-2 | 520 | 587 | 533 | 547 | 6.45 | cps |
| Copper | 63-2 | 16046 | 16012 | 16660 | 16239 | 2.24 | cps |
| Dysprosium | 156-1 | 40 | 103 | 107 | 83 | 45.08 | cps |
| Dysprosium | 156-2 | 27 | 30 | 43 | 33 | 26.45 | cps |
| Erbium | 164-1 | 157 | 153 | 137 | 149 | 7.20 | cps |
| Erbium | 164-2 | 63 | 43 | 67 | 58 | 21.85 | cps |
| Gadolinium | 160-1 | 177 | 163 | 217 | 186 | 14.96 | cps |
| Gadolinium | 160-2 | 57 | 43 | 63 | 54 | 18.71 | cps |
| Holmium | 165-1 | 18900685 | 19579221 | 19277649 | 19252518 | 1.77 | cps |
| Holmium | 165-2 | 7478323 | 7447402 | 7284851 | 7403525 | 1.40 | cps |
| Indium | 115-1 | 15064203 | 15149165 | 15322352 | 15178573 | 0.87 | cps |
| Indium | 115-2 | 1657927 | 1675331 | 1618105 | 1650454 | 1.78 | cps |
| Iron | 54-2 | 108156 | 109643 | 110839 | 109546 | 1.23 | cps |
| Iron | 56-2 | 2105779 | 2117282 | 2086692 | 2103251 | 0.73 | cps |
| Iron | 57-2 | 50807 | 50680 | 51944 | 51143 | 1.36 | cps |
| Krypton | 83-1 | 273 | 303 | 263 | 280 | 7.43 | cps |
| Lead | 206-1 | 7549 | 7659 | 7252 | 7487 | 2.81 | cps |

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6235 | 6305 | 6805 | 6448 | 4.82 | cps |
| Lead | 208-1 | 29046 | 29076 | 29900 | 29341 | 1.65 | cps |
| Lithium | 6-1 | 8469482 | 8964466 | 8687646 | 8707198 | 2.85 | cps |
| Magnesium | 24-2 | 20794708 | 20483311 | 20928117 | 20735379 | 1.10 | cps |
| Manganese | 55-2 | 96829 | 94523 | 95584 | 95645 | 1.21 | cps |
| Molybdenum | 94-1 | 5975 | 5831 | 6098 | 5968 | 2.24 | cps |
| Molybdenum | 95-1 | 8243 | 8733 | 8726 | 8567 | 3.28 | cps |
| Molybdenum | 96-1 | 9166 | 9663 | 9617 | 9482 | 2.89 | cps |
| Molybdenum | 97-1 | 5128 | 5398 | 5638 | 5388 | 4.74 | cps |
| Molybdenum | 98-1 | 13877 | 14047 | 14054 | 13993 | 0.72 | cps |
| Neodymium | 150-1 | 100 | 77 | 73 | 83 | 17.44 | cps |
| Neodymium | 150-2 | 20 | 17 | 27 | 21 | 24.12 | cps |
| Nickel | 60-2 | 1227 | 1220 | 1373 | 1273 | 6.81 | cps |
| Phosphorus | 31-2 | 187 | 117 | 140 | 148 | 24.12 | cps |
| Potassium | 39-2 | 627720 | 622361 | 631410 | 627164 | 0.73 | cps |
| Rhodium | 103-1 | 13853351 | 14237046 | 13963742 | 14018046 | 1.41 | cps |
| Rhodium | 103-2 | 6041111 | 5907249 | 5866660 | 5938340 | 1.54 | cps |
| Scandium | 45-1 | 11009712 | 11213972 | 11128669 | 11117451 | 0.92 | cps |
| Scandium | 45-2 | 230323 | 231201 | 224661 | 228728 | 1.55 | cps |
| Selenium | 82-1 | 77 | 70 | 167 | 104 | 51.69 | cps |
| Selenium | 77-2 | 0 | 10 | 3 | 4 | 114.60 | cps |
| Selenium | 78-2 | 13 | 7 | 10 | 10 | 33.30 | cps |
| Silicon | 28-1 | 90327949 | 92645875 | 92409562 | 91794462 | 1.39 | cps |
| Silver | 107-1 | 1757 | 1703 | 1777 | 1746 | 2.17 | cps |
| Silver | 109-1 | 1293 | 1383 | 1363 | 1347 | 3.51 | cps |
| Sodium | 23-2 | 16338285 | 16639583 | 16565942 | 16514603 | 0.95 | cps |
| Strontium | 86-1 | 78712070 | 81358182 | 83140359 | 81070204 | 2.75 | cps |
| Strontium | 88-1 | 693201203 | 705609616 | 721699456 | 706836758 | 2.02 | cps |
| Sulfur | 34-1 | 21007613 | 21433635 | 21393714 | 21278321 | 1.11 | cps |
| Terbium | 159-1 | 19521631 | 19754525 | 19734325 | 19670160 | 0.66 | cps |
| Terbium | 159-2 | 7225026 | 7190883 | 6958798 | 7124902 | 2.03 | cps |
| Thallium | 203-1 | 430 | 457 | 343 | 410 | 14.45 | cps |
| Thallium | 205-1 | 953 | 940 | 810 | 901 | 8.79 | cps |
| Tin | 118-1 | 9940 | 10588 | 10788 | 10439 | 4.24 | cps |
| Titanium | 47-1 | 2540 | 2757 | 2900 | 2733 | 6.63 | cps |
| Uranium | 238-1 | 41715 | 43006 | 42698 | 42473 | 1.59 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2955 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:55:28 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 700 | 677 | 677 | 684 | 1.97 | cps |
| Ytterbium | 172-1 | 103 | 127 | 127 | 119 | 11.33 | cps |
| Ytterbium | 172-2 | 77 | 60 | 77 | 71 | 13.53 | cps |
| Ytterbium | 176-1 | 1980 | 1840 | 1803 | 1875 | 4.97 | cps |
| Ytterbium | 176-2 | 317 | 347 | 313 | 326 | 5.64 | cps |
| Yttrium | 89-1 | 26910361 | 27307144 | 27274842 | 27164116 | 0.81 | cps |
| Yttrium | 89-2 | 2188947 | 2139098 | 2083492 | 2137179 | 2.47 | cps |
| Zinc | 66-2 | 44975 | 46138 | 45784 | 45632 | 1.31 | cps |
| Zirconium | 90-1 | 2664 | 2954 | 3047 | 2888 | 6.92 | cps |
| Zirconium | 91-1 | 563 | 523 | 730 | 606 | 18.10 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 427 | 483 | 380 | 430 | 12.03 | cps |
| Antimony | 121-1 | 230 | 217 | 247 | 231 | 6.50 | cps |
| Arsenic | 75-2 | 80 | 103 | 107 | 97 | 15.03 | cps |
| Barium | 135-1 | 63012 | 65108 | 64503 | 64208 | 1.68 | cps |
| Barium | 137-1 | 107990 | 112798 | 111777 | 110855 | 2.29 | cps |
| Beryllium | 9-1 | 400 | 437 | 482 | 440 | 9.39 | cps |
| Bismuth | 209-1 | 11508043 | 12041298 | 11780436 | 11776592 | 2.26 | cps |
| Bismuth | 209-2 | 5147984 | 5192788 | 5201106 | 5180626 | 0.55 | cps |
| Bromine | 81-1 | 133618 | 158893 | 171302 | 154604 | 12.42 | cps |
| Cadmium | 108-1 | 23 | 33 | 30 | 29 | 17.63 | cps |
| Cadmium | 106-1 | 7455 | 8099 | 7719 | 7758 | 4.17 | cps |
| Cadmium | 111-1 | 5229 | 5666 | 5416 | 5437 | 4.03 | cps |
| Calcium | 43-1 | 16073916 | 16581526 | 16356552 | 16337331 | 1.56 | cps |
| Calcium | 44-1 | 262613936 | 263761863 | 262786023 | 263053941 | 0.24 | cps |
| Carbon | 12-1 | 9587627 | 10073710 | 10442651 | 10034663 | 4.27 | cps |
| Carbon | 12-2 | 70575 | 71858 | 70535 | 70989 | 1.06 | cps |
| Chlorine | 35-1 | 5667892 | 6234124 | 6222819 | 6041612 | 5.36 | cps |
| Chlorine | 35-2 | 26481 | 25743 | 26488 | 26237 | 1.63 | cps |
| Chromium | 52-2 | 2937 | 2807 | 2857 | 2867 | 2.29 | cps |
| Cobalt | 59-2 | 867 | 803 | 780 | 817 | 5.49 | cps |
| Copper | 63-2 | 5041 | 5504 | 5351 | 5299 | 4.46 | cps |
| Dysprosium | 156-1 | 53 | 87 | 47 | 62 | 34.44 | cps |
| Dysprosium | 156-2 | 10 | 10 | 30 | 17 | 69.28 | cps |
| Erbium | 164-1 | 163 | 180 | 163 | 169 | 5.70 | cps |
| Erbium | 164-2 | 30 | 67 | 60 | 52 | 37.40 | cps |
| Gadolinium | 160-1 | 203 | 143 | 137 | 161 | 22.79 | cps |
| Gadolinium | 160-2 | 47 | 30 | 53 | 43 | 27.73 | cps |
| Holmium | 165-1 | 19383548 | 20284386 | 19641353 | 19769762 | 2.35 | cps |
| Holmium | 165-2 | 7374790 | 7403033 | 7194581 | 7324134 | 1.54 | cps |
| Indium | 115-1 | 15025781 | 16104330 | 15471443 | 15533851 | 3.49 | cps |
| Indium | 115-2 | 1656477 | 1683027 | 1656169 | 1665225 | 0.93 | cps |
| Iron | 54-2 | 97131 | 98214 | 95792 | 97046 | 1.25 | cps |
| Iron | 56-2 | 1856296 | 1867964 | 1783438 | 1835900 | 2.50 | cps |
| Iron | 57-2 | 44760 | 44653 | 44262 | 44558 | 0.59 | cps |
| Krypton | 83-1 | 327 | 330 | 330 | 329 | 0.59 | cps |
| Lead | 206-1 | 2760 | 2787 | 2614 | 2720 | 3.43 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2317 | 2350 | 2370 | 2346 | 1.15 | cps |
| Lead | 208-1 | 10458 | 10698 | 10635 | 10597 | 1.17 | cps |
| Lithium | 6-1 | 8985521 | 9314300 | 8983361 | 9094394 | 2.09 | cps |
| Magnesium | 24-2 | 21060697 | 21163149 | 20535256 | 20919701 | 1.61 | cps |
| Manganese | 55-2 | 105248 | 104465 | 102582 | 104098 | 1.32 | cps |
| Molybdenum | 94-1 | 5718 | 5778 | 5781 | 5759 | 0.62 | cps |
| Molybdenum | 95-1 | 8609 | 9403 | 9350 | 9121 | 4.87 | cps |
| Molybdenum | 96-1 | 9603 | 9800 | 10114 | 9839 | 2.62 | cps |
| Molybdenum | 97-1 | 5321 | 5905 | 5681 | 5636 | 5.22 | cps |
| Molybdenum | 98-1 | 14337 | 14855 | 14735 | 14642 | 1.85 | cps |
| Neodymium | 150-1 | 57 | 80 | 63 | 67 | 18.03 | cps |
| Neodymium | 150-2 | 7 | 7 | 13 | 9 | 43.25 | cps |
| Nickel | 60-2 | 1637 | 1413 | 1490 | 1513 | 7.50 | cps |
| Phosphorus | 31-2 | 100 | 103 | 120 | 108 | 9.94 | cps |
| Potassium | 39-2 | 637399 | 631154 | 627776 | 632110 | 0.77 | cps |
| Rhodium | 103-1 | 14284734 | 14838344 | 14500477 | 14541185 | 1.92 | cps |
| Rhodium | 103-2 | 5946298 | 5958602 | 5977436 | 5960779 | 0.26 | cps |
| Scandium | 45-1 | 10956576 | 11864650 | 11389855 | 11403694 | 3.98 | cps |
| Scandium | 45-2 | 228421 | 231965 | 230480 | 230289 | 0.77 | cps |
| Selenium | 82-1 | 60 | 13 | 33 | 36 | 65.87 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Silicon | 28-1 | 94684519 | 97068812 | 94522492 | 95425274 | 1.49 | cps |
| Silver | 107-1 | 563 | 553 | 623 | 580 | 6.53 | cps |
| Silver | 109-1 | 330 | 307 | 307 | 314 | 4.29 | cps |
| Sodium | 23-2 | 17136335 | 16899601 | 16611906 | 16882614 | 1.56 | cps |
| Strontium | 86-1 | 82337987 | 85721495 | 84634077 | 84231187 | 2.05 | cps |
| Strontium | 88-1 | 705678229 | 735343269 | 724033163 | 721684887 | 2.07 | cps |
| Sulfur | 34-1 | 21542676 | 22571123 | 22052080 | 22055293 | 2.33 | cps |
| Terbium | 159-1 | 19483662 | 20441727 | 20104427 | 20009938 | 2.43 | cps |
| Terbium | 159-2 | 7124202 | 7011645 | 7144622 | 7093490 | 1.01 | cps |
| Thallium | 203-1 | 380 | 367 | 403 | 383 | 4.84 | cps |
| Thallium | 205-1 | 850 | 913 | 907 | 890 | 3.91 | cps |
| Tin | 118-1 | 8950 | 9173 | 8950 | 9024 | 1.43 | cps |
| Titanium | 47-1 | 1743 | 1850 | 1920 | 1838 | 4.84 | cps |
| Uranium | 238-1 | 43176 | 44969 | 45347 | 44498 | 2.61 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2956 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 13:58:43 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 87 | 100 | 127 | 104 | 19.50 | cps |
| Ytterbium | 172-1 | 157 | 160 | 127 | 148 | 12.42 | cps |
| Ytterbium | 172-2 | 30 | 70 | 70 | 57 | 40.75 | cps |
| Ytterbium | 176-1 | 1790 | 1977 | 1957 | 1908 | 5.37 | cps |
| Ytterbium | 176-2 | 287 | 373 | 353 | 338 | 13.43 | cps |
| Yttrium | 89-1 | 27362686 | 29085396 | 28229610 | 28225897 | 3.05 | cps |
| Yttrium | 89-2 | 2153141 | 2131134 | 2114837 | 2133037 | 0.90 | cps |
| Zinc | 66-2 | 757 | 773 | 710 | 747 | 4.40 | cps |
| Zirconium | 90-1 | 1820 | 1960 | 1903 | 1895 | 3.72 | cps |
| Zirconium | 91-1 | 360 | 413 | 363 | 379 | 7.88 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1020 | 967 | 1070 | 1019 | 5.07 | cps |
| Antimony | 121-1 | 530 | 587 | 597 | 571 | 6.30 | cps |
| Arsenic | 75-2 | 150 | 110 | 140 | 133 | 15.61 | cps |
| Barium | 135-1 | 178412 | 179190 | 183921 | 180508 | 1.65 | cps |
| Barium | 137-1 | 310422 | 314799 | 319335 | 314852 | 1.42 | cps |
| Beryllium | 9-1 | 441 | 495 | 460 | 465 | 5.86 | cps |
| Bismuth | 209-1 | 11292016 | 10993296 | 10589719 | 10958344 | 3.22 | cps |
| Bismuth | 209-2 | 4978505 | 5012901 | 4984951 | 4992119 | 0.37 | cps |
| Bromine | 81-1 | 168063 | 196416 | 213583 | 192688 | 11.93 | cps |
| Cadmium | 108-1 | 83 | 67 | 67 | 72 | 13.32 | cps |
| Cadmium | 106-1 | 7976 | 7846 | 7355 | 7726 | 4.23 | cps |
| Cadmium | 111-1 | 5598 | 5549 | 5182 | 5443 | 4.17 | cps |
| Calcium | 43-1 | 26933713 | 27298275 | 27957231 | 27396407 | 1.89 | cps |
| Calcium | 44-1 | 435301767 | 436590820 | 447116273 | 439669620 | 1.47 | cps |
| Carbon | 12-1 | 9798828 | 10408902 | 10829579 | 10345770 | 5.01 | cps |
| Carbon | 12-2 | 73057 | 73429 | 74189 | 73558 | 0.78 | cps |
| Chlorine | 35-1 | 33783871 | 37277539 | 39333788 | 36798399 | 7.62 | cps |
| Chlorine | 35-2 | 170005 | 171985 | 171800 | 171263 | 0.64 | cps |
| Chromium | 52-2 | 2807 | 2557 | 2737 | 2700 | 4.78 | cps |
| Cobalt | 59-2 | 7369 | 7435 | 7399 | 7401 | 0.45 | cps |
| Copper | 63-2 | 6908 | 6842 | 7462 | 7071 | 4.82 | cps |
| Dysprosium | 156-1 | 67 | 53 | 57 | 59 | 11.79 | cps |
| Dysprosium | 156-2 | 10 | 20 | 27 | 19 | 44.42 | cps |
| Erbium | 164-1 | 150 | 133 | 167 | 150 | 11.11 | cps |
| Erbium | 164-2 | 57 | 47 | 50 | 51 | 9.96 | cps |
| Gadolinium | 160-1 | 140 | 207 | 173 | 173 | 19.23 | cps |
| Gadolinium | 160-2 | 33 | 53 | 37 | 41 | 26.06 | cps |
| Holmium | 165-1 | 19039955 | 19241046 | 18282372 | 18854458 | 2.68 | cps |
| Holmium | 165-2 | 7335150 | 7373349 | 7206199 | 7304899 | 1.20 | cps |
| Indium | 115-1 | 15227355 | 15265529 | 14605958 | 15032947 | 2.46 | cps |
| Indium | 115-2 | 1620607 | 1622794 | 1624700 | 1622700 | 0.13 | cps |
| Iron | 54-2 | 139729 | 140109 | 140779 | 140206 | 0.38 | cps |
| Iron | 56-2 | 2703222 | 2701677 | 2628404 | 2677767 | 1.60 | cps |
| Iron | 57-2 | 65536 | 64920 | 66337 | 65598 | 1.08 | cps |
| Krypton | 83-1 | 277 | 307 | 383 | 322 | 17.07 | cps |
| Lead | 206-1 | 2924 | 3014 | 2907 | 2948 | 1.95 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2297 | 2564 | 2587 | 2482 | 6.49 | cps |
| Lead | 208-1 | 11302 | 11562 | 11769 | 11544 | 2.03 | cps |
| Lithium | 6-1 | 8834809 | 8982057 | 8615206 | 8810691 | 2.10 | cps |
| Magnesium | 24-2 | 27407382 | 27965641 | 27211668 | 27528230 | 1.42 | cps |
| Manganese | 55-2 | 43205 | 43653 | 43329 | 43396 | 0.53 | cps |
| Molybdenum | 94-1 | 59527 | 61455 | 62704 | 61229 | 2.61 | cps |
| Molybdenum | 95-1 | 99909 | 101994 | 102354 | 101419 | 1.30 | cps |
| Molybdenum | 96-1 | 108684 | 108956 | 111348 | 109663 | 1.34 | cps |
| Molybdenum | 97-1 | 63789 | 64231 | 63896 | 63972 | 0.36 | cps |
| Molybdenum | 98-1 | 160952 | 161629 | 167586 | 163389 | 2.23 | cps |
| Neodymium | 150-1 | 60 | 77 | 97 | 78 | 23.61 | cps |
| Neodymium | 150-2 | 10 | 30 | 20 | 20 | 50.00 | cps |
| Nickel | 60-2 | 9126 | 9403 | 9340 | 9290 | 1.56 | cps |
| Phosphorus | 31-2 | 123 | 107 | 107 | 112 | 8.58 | cps |
| Potassium | 39-2 | 941574 | 952410 | 949605 | 947863 | 0.59 | cps |
| Rhodium | 103-1 | 13526850 | 13748416 | 13384916 | 13553394 | 1.35 | cps |
| Rhodium | 103-2 | 5724503 | 5797681 | 5707717 | 5743300 | 0.83 | cps |
| Scandium | 45-1 | 11284679 | 11083379 | 10714477 | 11027512 | 2.62 | cps |
| Scandium | 45-2 | 231025 | 230397 | 225355 | 228926 | 1.36 | cps |
| Selenium | 82-1 | 163 | 190 | 100 | 151 | 30.59 | cps |
| Selenium | 77-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Selenium | 78-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Silicon | 28-1 | 95487445 | 97111295 | 97358255 | 96652332 | 1.05 | cps |
| Silver | 107-1 | 753 | 897 | 933 | 861 | 11.05 | cps |
| Silver | 109-1 | 417 | 533 | 667 | 539 | 23.21 | cps |
| Sodium | 23-2 | 99358899 | 100409765 | 99328312 | 99698992 | 0.62 | cps |
| Strontium | 86-1 | 78778374 | 79855604 | 80566402 | 79733460 | 1.13 | cps |
| Strontium | 88-1 | 675057350 | 686979776 | 695805750 | 685947625 | 1.52 | cps |
| Sulfur | 34-1 | 29788503 | 30250264 | 30579175 | 30205981 | 1.31 | cps |
| Terbium | 159-1 | 19988796 | 19497008 | 19103424 | 19529743 | 2.27 | cps |
| Terbium | 159-2 | 6954418 | 7022923 | 6936954 | 6971431 | 0.65 | cps |
| Thallium | 203-1 | 553 | 570 | 603 | 576 | 4.42 | cps |
| Thallium | 205-1 | 1327 | 1330 | 1267 | 1308 | 2.73 | cps |
| Tin | 118-1 | 11668 | 11468 | 11678 | 11605 | 1.02 | cps |
| Titanium | 47-1 | 2137 | 2114 | 2170 | 2140 | 1.33 | cps |
| Uranium | 238-1 | 3854 | 3817 | 3981 | 3884 | 2.21 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2957 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:01:56 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 800 | 700 | 713 | 738 | 7.36 | cps |
| Ytterbium | 172-1 | 120 | 143 | 107 | 123 | 15.05 | cps |
| Ytterbium | 172-2 | 57 | 27 | 57 | 47 | 37.11 | cps |
| Ytterbium | 176-1 | 1984 | 1933 | 1800 | 1906 | 4.97 | cps |
| Ytterbium | 176-2 | 277 | 270 | 290 | 279 | 3.65 | cps |
| Yttrium | 89-1 | 27530004 | 27441994 | 26031005 | 27001001 | 3.12 | cps |
| Yttrium | 89-2 | 2120330 | 2153211 | 2101610 | 2125051 | 1.23 | cps |
| Zinc | 66-2 | 883 | 787 | 823 | 831 | 5.87 | cps |
| Zirconium | 90-1 | 5494 | 5344 | 5798 | 5546 | 4.17 | cps |
| Zirconium | 91-1 | 1177 | 1123 | 1257 | 1186 | 5.66 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 537 | 570 | 653 | 587 | 10.24 | cps |
| Antimony | 121-1 | 210 | 237 | 240 | 229 | 7.19 | cps |
| Arsenic | 75-2 | 1863 | 1707 | 1700 | 1757 | 5.26 | cps |
| Barium | 135-1 | 203669 | 204065 | 206434 | 204722 | 0.73 | cps |
| Barium | 137-1 | 354859 | 358079 | 354554 | 355831 | 0.55 | cps |
| Beryllium | 9-1 | 424 | 431 | 394 | 416 | 4.77 | cps |
| Bismuth | 209-1 | 11453884 | 11600410 | 11481657 | 11511984 | 0.68 | cps |
| Bismuth | 209-2 | 4936954 | 4944720 | 4754465 | 4878713 | 2.21 | cps |
| Bromine | 81-1 | 171739 | 190681 | 201296 | 187906 | 7.97 | cps |
| Cadmium | 108-1 | 53 | 23 | 37 | 38 | 39.79 | cps |
| Cadmium | 106-1 | 8426 | 8343 | 7986 | 8251 | 2.83 | cps |
| Cadmium | 111-1 | 5891 | 5883 | 5641 | 5805 | 2.45 | cps |
| Calcium | 43-1 | 24024487 | 23693829 | 23715646 | 23811321 | 0.78 | cps |
| Calcium | 44-1 | 383556114 | 379233008 | 379387368 | 380725497 | 0.64 | cps |
| Carbon | 12-1 | 14005492 | 14584386 | 14717826 | 14435902 | 2.62 | cps |
| Carbon | 12-2 | 100024 | 101363 | 100464 | 100617 | 0.68 | cps |
| Chlorine | 35-1 | 7902030 | 8044034 | 7942119 | 7962728 | 0.92 | cps |
| Chlorine | 35-2 | 32727 | 32777 | 31995 | 32500 | 1.35 | cps |
| Chromium | 52-2 | 6251 | 6278 | 6255 | 6261 | 0.23 | cps |
| Cobalt | 59-2 | 1003 | 1033 | 1010 | 1016 | 1.55 | cps |
| Copper | 63-2 | 5111 | 5054 | 5284 | 5150 | 2.33 | cps |
| Dysprosium | 156-1 | 347 | 303 | 317 | 322 | 6.89 | cps |
| Dysprosium | 156-2 | 93 | 97 | 113 | 101 | 10.60 | cps |
| Erbium | 164-1 | 327 | 367 | 313 | 336 | 8.27 | cps |
| Erbium | 164-2 | 120 | 130 | 73 | 108 | 28.07 | cps |
| Gadolinium | 160-1 | 340 | 370 | 353 | 354 | 4.24 | cps |
| Gadolinium | 160-2 | 157 | 127 | 107 | 130 | 19.36 | cps |
| Holmium | 165-1 | 19151474 | 19942226 | 19456810 | 19516837 | 2.04 | cps |
| Holmium | 165-2 | 7089274 | 7075827 | 6833184 | 6999428 | 2.06 | cps |
| Indium | 115-1 | 15288214 | 15719264 | 15133989 | 15380489 | 1.97 | cps |
| Indium | 115-2 | 1594670 | 1578756 | 1468518 | 1547315 | 4.44 | cps |
| Iron | 54-2 | 837963 | 852817 | 840076 | 843619 | 0.95 | cps |
| Iron | 56-2 | 15915137 | 15984187 | 16129155 | 16009493 | 0.68 | cps |
| Iron | 57-2 | 389608 | 391412 | 388768 | 389929 | 0.35 | cps |
| Krypton | 83-1 | 330 | 330 | 310 | 323 | 3.57 | cps |
| Lead | 206-1 | 3417 | 3270 | 3370 | 3353 | 2.24 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2927 | 3260 | 2740 | 2976 | 8.85 | cps |
| Lead | 208-1 | 13770 | 13826 | 13250 | 13615 | 2.34 | cps |
| Lithium | 6-1 | 8936505 | 9293694 | 8935806 | 9055335 | 2.28 | cps |
| Magnesium | 24-2 | 31463958 | 31592842 | 31069033 | 31375278 | 0.87 | cps |
| Manganese | 55-2 | 767388 | 769605 | 769905 | 768966 | 0.18 | cps |
| Molybdenum | 94-1 | 14875 | 14074 | 14114 | 14354 | 3.14 | cps |
| Molybdenum | 95-1 | 22251 | 22471 | 22078 | 22267 | 0.89 | cps |
| Molybdenum | 96-1 | 23417 | 23867 | 24108 | 23797 | 1.47 | cps |
| Molybdenum | 97-1 | 13910 | 13870 | 14197 | 13993 | 1.27 | cps |
| Molybdenum | 98-1 | 34941 | 35251 | 35181 | 35124 | 0.46 | cps |
| Neodymium | 150-1 | 463 | 390 | 387 | 413 | 10.48 | cps |
| Neodymium | 150-2 | 103 | 113 | 90 | 102 | 11.45 | cps |
| Nickel | 60-2 | 2080 | 2050 | 2090 | 2074 | 1.00 | cps |
| Phosphorus | 31-2 | 177 | 190 | 153 | 173 | 10.71 | cps |
| Potassium | 39-2 | 2400848 | 2390286 | 2361195 | 2384109 | 0.86 | cps |
| Rhodium | 103-1 | 14124256 | 14477624 | 14222274 | 14274718 | 1.28 | cps |
| Rhodium | 103-2 | 5720162 | 5662140 | 5481738 | 5621347 | 2.21 | cps |
| Scandium | 45-1 | 11407048 | 11565458 | 11585359 | 11519288 | 0.85 | cps |
| Scandium | 45-2 | 222710 | 221192 | 214098 | 219333 | 2.10 | cps |
| Selenium | 82-1 | 90 | 213 | 93 | 132 | 53.14 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Silicon | 28-1 | 102931185 | 102440535 | 101656108 | 102342610 | 0.63 | cps |
| Silver | 107-1 | 590 | 647 | 667 | 634 | 6.27 | cps |
| Silver | 109-1 | 377 | 400 | 327 | 368 | 10.19 | cps |
| Sodium | 23-2 | 47043948 | 46712304 | 46150856 | 46635703 | 0.97 | cps |
| Strontium | 86-1 | 64915496 | 65433892 | 65066991 | 65138793 | 0.41 | cps |
| Strontium | 88-1 | 558085418 | 563248592 | 556923538 | 559419183 | 0.60 | cps |
| Sulfur | 34-1 | 39679428 | 38802644 | 39350538 | 39277537 | 1.13 | cps |
| Terbium | 159-1 | 19964390 | 20494511 | 20086385 | 20181762 | 1.38 | cps |
| Terbium | 159-2 | 6877537 | 6816988 | 6625342 | 6773289 | 1.94 | cps |
| Thallium | 203-1 | 457 | 390 | 380 | 409 | 10.19 | cps |
| Thallium | 205-1 | 933 | 837 | 843 | 871 | 6.20 | cps |
| Tin | 118-1 | 8356 | 8833 | 8566 | 8585 | 2.78 | cps |
| Titanium | 47-1 | 2254 | 2044 | 2057 | 2118 | 5.55 | cps |
| Uranium | 238-1 | 26591 | 26554 | 26478 | 26541 | 0.22 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2960 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:05:12 | DataFile Name : | 035AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 633 | 580 | 620 | 611 | 4.54 | cps |
| Ytterbium | 172-1 | 210 | 213 | 270 | 231 | 14.59 | cps |
| Ytterbium | 172-2 | 113 | 83 | 67 | 88 | 26.94 | cps |
| Ytterbium | 176-1 | 1904 | 1924 | 1890 | 1906 | 0.88 | cps |
| Ytterbium | 176-2 | 350 | 307 | 343 | 333 | 7.00 | cps |
| Yttrium | 89-1 | 27512784 | 28697857 | 27826656 | 28012432 | 2.19 | cps |
| Yttrium | 89-2 | 2108562 | 2044107 | 1963205 | 2038625 | 3.57 | cps |
| Zinc | 66-2 | 713 | 730 | 730 | 724 | 1.33 | cps |
| Zirconium | 90-1 | 3957 | 4147 | 4091 | 4065 | 2.40 | cps |
| Zirconium | 91-1 | 930 | 900 | 897 | 909 | 2.02 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1883 | 2054 | 1777 | 1905 | 7.33 | cps |
| Antimony | 121-1 | 390 | 400 | 470 | 420 | 10.38 | cps |
| Arsenic | 75-2 | 40 | 30 | 23 | 31 | 26.97 | cps |
| Barium | 135-1 | 43443 | 44051 | 43590 | 43695 | 0.73 | cps |
| Barium | 137-1 | 76334 | 75972 | 76780 | 76362 | 0.53 | cps |
| Beryllium | 9-1 | 424 | 424 | 360 | 402 | 9.14 | cps |
| Bismuth | 209-1 | 11420111 | 11540604 | 10912225 | 11290980 | 2.95 | cps |
| Bismuth | 209-2 | 4605428 | 5010280 | 4989070 | 4868259 | 4.68 | cps |
| Bromine | 81-1 | 119838 | 137573 | 146189 | 134534 | 9.99 | cps |
| Cadmium | 108-1 | 23 | 30 | 57 | 37 | 48.11 | cps |
| Cadmium | 106-1 | 8072 | 8186 | 7896 | 8051 | 1.82 | cps |
| Cadmium | 111-1 | 5684 | 5746 | 5551 | 5660 | 1.76 | cps |
| Calcium | 43-1 | 21980765 | 22033064 | 22572381 | 22195403 | 1.48 | cps |
| Calcium | 44-1 | 361590421 | 352107781 | 359769861 | 357822688 | 1.41 | cps |
| Carbon | 12-1 | 9685022 | 10354977 | 10804694 | 10281564 | 5.48 | cps |
| Carbon | 12-2 | 72156 | 72460 | 73891 | 72836 | 1.27 | cps |
| Chlorine | 35-1 | 5370430 | 5507420 | 5751743 | 5543198 | 3.48 | cps |
| Chlorine | 35-2 | 23643 | 24144 | 23850 | 23879 | 1.05 | cps |
| Chromium | 52-2 | 2604 | 2790 | 2810 | 2735 | 4.17 | cps |
| Cobalt | 59-2 | 420 | 433 | 440 | 431 | 2.36 | cps |
| Copper | 63-2 | 4994 | 5001 | 5108 | 5034 | 1.26 | cps |
| Dysprosium | 156-1 | 250 | 183 | 227 | 220 | 15.38 | cps |
| Dysprosium | 156-2 | 67 | 83 | 80 | 77 | 11.50 | cps |
| Erbium | 164-1 | 313 | 307 | 257 | 292 | 10.60 | cps |
| Erbium | 164-2 | 87 | 113 | 100 | 100 | 13.33 | cps |
| Gadolinium | 160-1 | 290 | 337 | 327 | 318 | 7.73 | cps |
| Gadolinium | 160-2 | 87 | 103 | 103 | 98 | 9.84 | cps |
| Holmium | 165-1 | 19295868 | 19403658 | 18691055 | 19130194 | 2.01 | cps |
| Holmium | 165-2 | 6644312 | 7045441 | 7101835 | 6930529 | 3.60 | cps |
| Indium | 115-1 | 15394770 | 15326438 | 14711260 | 15144156 | 2.49 | cps |
| Indium | 115-2 | 1417127 | 1576420 | 1572419 | 1521989 | 5.97 | cps |
| Iron | 54-2 | 464239 | 467362 | 460171 | 463924 | 0.78 | cps |
| Iron | 56-2 | 8889437 | 8745378 | 8791820 | 8808878 | 0.83 | cps |
| Iron | 57-2 | 214713 | 213810 | 212044 | 213522 | 0.64 | cps |
| Krypton | 83-1 | 310 | 380 | 303 | 331 | 12.83 | cps |
| Lead | 206-1 | 2784 | 2634 | 2520 | 2646 | 4.99 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2317 | 2287 | 2197 | 2267 | 2.76 | cps |
| Lead | 208-1 | 10912 | 10522 | 10382 | 10605 | 2.59 | cps |
| Lithium | 6-1 | 8949891 | 8882250 | 8654019 | 8828720 | 1.76 | cps |
| Magnesium | 24-2 | 28233897 | 28128524 | 28084736 | 28149052 | 0.27 | cps |
| Manganese | 55-2 | 136676 | 132949 | 135284 | 134970 | 1.40 | cps |
| Molybdenum | 94-1 | 6008 | 6108 | 6158 | 6091 | 1.25 | cps |
| Molybdenum | 95-1 | 8493 | 8213 | 8529 | 8412 | 2.06 | cps |
| Molybdenum | 96-1 | 9400 | 9073 | 9053 | 9175 | 2.12 | cps |
| Molybdenum | 97-1 | 5464 | 5181 | 5191 | 5279 | 3.05 | cps |
| Molybdenum | 98-1 | 13367 | 13347 | 13914 | 13542 | 2.38 | cps |
| Neodymium | 150-1 | 273 | 327 | 283 | 294 | 9.63 | cps |
| Neodymium | 150-2 | 77 | 77 | 43 | 66 | 29.36 | cps |
| Nickel | 60-2 | 1297 | 1240 | 1283 | 1273 | 2.33 | cps |
| Phosphorus | 31-2 | 160 | 133 | 113 | 136 | 17.27 | cps |
| Potassium | 39-2 | 601883 | 601381 | 598076 | 600447 | 0.34 | cps |
| Rhodium | 103-1 | 14345074 | 14092556 | 13682428 | 14040019 | 2.38 | cps |
| Rhodium | 103-2 | 5277148 | 5660600 | 5689497 | 5542415 | 4.15 | cps |
| Scandium | 45-1 | 11251235 | 11350222 | 10797577 | 11133011 | 2.65 | cps |
| Scandium | 45-2 | 203807 | 221156 | 223539 | 216167 | 4.98 | cps |
| Selenium | 82-1 | 113 | 87 | 183 | 128 | 39.07 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 13 | 17 | 13 | 25.01 | cps |
| Silicon | 28-1 | 89210825 | 91137832 | 89180009 | 89842889 | 1.25 | cps |
| Silver | 107-1 | 503 | 510 | 523 | 512 | 1.99 | cps |
| Silver | 109-1 | 273 | 313 | 373 | 320 | 15.73 | cps |
| Sodium | 23-2 | 20203790 | 20030931 | 19744261 | 19992994 | 1.16 | cps |
| Strontium | 86-1 | 69778334 | 69102497 | 70785074 | 69888635 | 1.21 | cps |
| Strontium | 88-1 | 598901191 | 592488285 | 607447218 | 599612231 | 1.25 | cps |
| Sulfur | 34-1 | 32965025 | 33045159 | 33214188 | 33074790 | 0.38 | cps |
| Terbium | 159-1 | 19784679 | 19768324 | 19177242 | 19576748 | 1.77 | cps |
| Terbium | 159-2 | 6308692 | 6869562 | 6884654 | 6687636 | 4.91 | cps |
| Thallium | 203-1 | 393 | 427 | 407 | 409 | 4.10 | cps |
| Thallium | 205-1 | 917 | 883 | 933 | 911 | 2.79 | cps |
| Tin | 118-1 | 9380 | 8810 | 9297 | 9162 | 3.36 | cps |
| Titanium | 47-1 | 2964 | 3024 | 3200 | 3063 | 4.02 | cps |
| Uranium | 238-1 | 18116 | 17773 | 17379 | 17756 | 2.08 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2961 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:08:26 | DataFile Name : | 036AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 433 | 490 | 383 | 436 | 12.25 | cps |
| Ytterbium | 172-1 | 123 | 223 | 160 | 169 | 29.95 | cps |
| Ytterbium | 172-2 | 57 | 80 | 60 | 66 | 19.25 | cps |
| Ytterbium | 176-1 | 1997 | 2030 | 1897 | 1975 | 3.51 | cps |
| Ytterbium | 176-2 | 307 | 353 | 303 | 321 | 8.71 | cps |
| Yttrium | 89-1 | 27695887 | 27863332 | 26793358 | 27450859 | 2.10 | cps |
| Yttrium | 89-2 | 1900596 | 2069892 | 2061003 | 2010497 | 4.74 | cps |
| Zinc | 66-2 | 663 | 750 | 647 | 687 | 8.08 | cps |
| Zirconium | 90-1 | 3014 | 3167 | 3187 | 3123 | 3.04 | cps |
| Zirconium | 91-1 | 650 | 607 | 600 | 619 | 4.39 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 710 | 730 | 793 | 744 | 5.84 | cps |
| Antimony | 121-1 | 393 | 417 | 423 | 411 | 3.83 | cps |
| Arsenic | 75-2 | 47 | 57 | 40 | 48 | 17.56 | cps |
| Barium | 135-1 | 61586 | 62678 | 63907 | 62723 | 1.85 | cps |
| Barium | 137-1 | 107795 | 109317 | 110463 | 109192 | 1.23 | cps |
| Beryllium | 9-1 | 435 | 441 | 449 | 442 | 1.56 | cps |
| Bismuth | 209-1 | 10321626 | 11958038 | 11325007 | 11201557 | 7.37 | cps |
| Bismuth | 209-2 | 5052147 | 5059972 | 5210429 | 5107516 | 1.75 | cps |
| Bromine | 81-1 | 109532 | 126602 | 137227 | 124453 | 11.23 | cps |
| Cadmium | 108-1 | 37 | 27 | 43 | 36 | 23.58 | cps |
| Cadmium | 106-1 | 7352 | 8643 | 7929 | 7975 | 8.11 | cps |
| Cadmium | 111-1 | 5147 | 6055 | 5550 | 5584 | 8.14 | cps |
| Calcium | 43-1 | 20250046 | 20677128 | 20871595 | 20599590 | 1.54 | cps |
| Calcium | 44-1 | 327146308 | 336833102 | 334011015 | 332663475 | 1.50 | cps |
| Carbon | 12-1 | 10303033 | 10924315 | 11420177 | 10882509 | 5.14 | cps |
| Carbon | 12-2 | 74919 | 76775 | 76018 | 75904 | 1.23 | cps |
| Chlorine | 35-1 | 5267512 | 5836310 | 5986102 | 5696641 | 6.65 | cps |
| Chlorine | 35-2 | 25342 | 25633 | 26120 | 25698 | 1.53 | cps |
| Chromium | 52-2 | 4321 | 4444 | 4424 | 4396 | 1.51 | cps |
| Cobalt | 59-2 | 480 | 553 | 440 | 491 | 11.70 | cps |
| Copper | 63-2 | 84569 | 85415 | 84747 | 84910 | 0.52 | cps |
| Dysprosium | 156-1 | 147 | 117 | 157 | 140 | 14.87 | cps |
| Dysprosium | 156-2 | 50 | 43 | 63 | 52 | 19.50 | cps |
| Erbium | 164-1 | 207 | 157 | 190 | 184 | 13.80 | cps |
| Erbium | 164-2 | 60 | 100 | 93 | 84 | 25.38 | cps |
| Gadolinium | 160-1 | 227 | 267 | 227 | 240 | 9.62 | cps |
| Gadolinium | 160-2 | 53 | 70 | 83 | 69 | 21.82 | cps |
| Holmium | 165-1 | 17353453 | 20530051 | 19444616 | 19109373 | 8.45 | cps |
| Holmium | 165-2 | 7207603 | 7185326 | 7319560 | 7237496 | 0.99 | cps |
| Indium | 115-1 | 13740483 | 15989628 | 15367136 | 15032416 | 7.73 | cps |
| Indium | 115-2 | 1612299 | 1630093 | 1644130 | 1628841 | 0.98 | cps |
| Iron | 54-2 | 252198 | 250825 | 253476 | 252166 | 0.53 | cps |
| Iron | 56-2 | 4744922 | 4785724 | 4790790 | 4773812 | 0.53 | cps |
| Iron | 57-2 | 115352 | 114404 | 117321 | 115692 | 1.29 | cps |
| Krypton | 83-1 | 313 | 323 | 303 | 313 | 3.19 | cps |
| Lead | 206-1 | 2790 | 2457 | 2577 | 2608 | 6.48 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2157 | 2204 | 2294 | 2218 | 3.13 | cps |
| Lead | 208-1 | 10382 | 10048 | 10258 | 10229 | 1.65 | cps |
| Lithium | 6-1 | 8083298 | 9402494 | 8883690 | 8789827 | 7.56 | cps |
| Magnesium | 24-2 | 25061122 | 25067699 | 25261883 | 25130235 | 0.45 | cps |
| Manganese | 55-2 | 75012 | 74781 | 76024 | 75272 | 0.88 | cps |
| Molybdenum | 94-1 | 3667 | 3741 | 3927 | 3778 | 3.55 | cps |
| Molybdenum | 95-1 | 4984 | 5168 | 4864 | 5005 | 3.05 | cps |
| Molybdenum | 96-1 | 5238 | 5338 | 5655 | 5410 | 4.02 | cps |
| Molybdenum | 97-1 | 3114 | 3114 | 3210 | 3146 | 1.77 | cps |
| Molybdenum | 98-1 | 7739 | 8122 | 8132 | 7998 | 2.81 | cps |
| Neodymium | 150-1 | 113 | 150 | 173 | 146 | 20.78 | cps |
| Neodymium | 150-2 | 47 | 40 | 30 | 39 | 21.57 | cps |
| Nickel | 60-2 | 5181 | 5058 | 5141 | 5127 | 1.23 | cps |
| Phosphorus | 31-2 | 160 | 147 | 107 | 138 | 20.14 | cps |
| Potassium | 39-2 | 971811 | 969687 | 987282 | 976260 | 0.98 | cps |
| Rhodium | 103-1 | 12523957 | 14754107 | 13890421 | 13722828 | 8.19 | cps |
| Rhodium | 103-2 | 5831812 | 5856421 | 5915406 | 5867880 | 0.73 | cps |
| Scandium | 45-1 | 10082761 | 11708710 | 11177847 | 10989773 | 7.54 | cps |
| Scandium | 45-2 | 229067 | 227666 | 230926 | 229220 | 0.71 | cps |
| Selenium | 82-1 | 77 | 67 | 177 | 107 | 57.02 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 17 | 13 | 13 | 14 | 13.35 | cps |
| Silicon | 28-1 | 77420187 | 78730399 | 79026445 | 78392344 | 1.09 | cps |
| Silver | 107-1 | 533 | 493 | 530 | 519 | 4.28 | cps |
| Silver | 109-1 | 300 | 323 | 323 | 316 | 4.27 | cps |
| Sodium | 23-2 | 24939539 | 24642702 | 25062691 | 24881644 | 0.87 | cps |
| Strontium | 86-1 | 74913721 | 75247119 | 76088974 | 75416604 | 0.80 | cps |
| Strontium | 88-1 | 649624190 | 640913964 | 652654124 | 647730759 | 0.94 | cps |
| Sulfur | 34-1 | 29505514 | 30195788 | 30124474 | 29941925 | 1.27 | cps |
| Terbium | 159-1 | 17716671 | 20591248 | 19515883 | 19274601 | 7.54 | cps |
| Terbium | 159-2 | 6935366 | 6894307 | 7110352 | 6980008 | 1.64 | cps |
| Thallium | 203-1 | 350 | 377 | 290 | 339 | 13.10 | cps |
| Thallium | 205-1 | 833 | 900 | 947 | 893 | 6.38 | cps |
| Tin | 118-1 | 10894 | 10828 | 11231 | 10984 | 1.97 | cps |
| Titanium | 47-1 | 1943 | 1813 | 2144 | 1967 | 8.46 | cps |
| Uranium | 238-1 | 5088 | 5104 | 5244 | 5146 | 1.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2962 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:11:43 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 393 | 410 | 373 | 392 | 4.68 | cps |
| Ytterbium | 172-1 | 150 | 160 | 157 | 156 | 3.27 | cps |
| Ytterbium | 172-2 | 67 | 60 | 83 | 70 | 17.17 | cps |
| Ytterbium | 176-1 | 1713 | 2087 | 1837 | 1879 | 10.12 | cps |
| Ytterbium | 176-2 | 283 | 333 | 293 | 303 | 8.72 | cps |
| Yttrium | 89-1 | 24607664 | 29290129 | 27480495 | 27126096 | 8.70 | cps |
| Yttrium | 89-2 | 2091965 | 2108290 | 2130093 | 2110116 | 0.91 | cps |
| Zinc | 66-2 | 907 | 1037 | 943 | 962 | 6.97 | cps |
| Zirconium | 90-1 | 2644 | 2797 | 2887 | 2776 | 4.43 | cps |
| Zirconium | 91-1 | 573 | 583 | 567 | 574 | 1.46 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 390 | 363 | 400 | 384 | 4.93 | cps |
| Antimony | 121-1 | 270 | 223 | 220 | 238 | 11.76 | cps |
| Arsenic | 75-2 | 43 | 50 | 60 | 51 | 16.42 | cps |
| Barium | 135-1 | 64338 | 65507 | 61650 | 63832 | 3.10 | cps |
| Barium | 137-1 | 112668 | 114846 | 107970 | 111828 | 3.14 | cps |
| Beryllium | 9-1 | 397 | 441 | 396 | 412 | 6.22 | cps |
| Bismuth | 209-1 | 12091547 | 11698779 | 10609459 | 11466595 | 6.70 | cps |
| Bismuth | 209-2 | 4598529 | 4628865 | 4686028 | 4637807 | 0.96 | cps |
| Bromine | 81-1 | 121331 | 140391 | 147458 | 136393 | 9.91 | cps |
| Cadmium | 108-1 | 37 | 33 | 17 | 29 | 37.08 | cps |
| Cadmium | 106-1 | 8586 | 8172 | 7415 | 8058 | 7.37 | cps |
| Cadmium | 111-1 | 6028 | 5747 | 5206 | 5660 | 7.38 | cps |
| Calcium | 43-1 | 26239741 | 26668025 | 25892293 | 26266687 | 1.48 | cps |
| Calcium | 44-1 | 423886674 | 434292380 | 414337127 | 424172060 | 2.35 | cps |
| Carbon | 12-1 | 9347773 | 10056481 | 10262050 | 9888768 | 4.85 | cps |
| Carbon | 12-2 | 67752 | 69902 | 69966 | 69206 | 1.82 | cps |
| Chlorine | 35-1 | 32429565 | 36506462 | 35303846 | 34746624 | 6.03 | cps |
| Chlorine | 35-2 | 146627 | 151379 | 154838 | 150948 | 2.73 | cps |
| Chromium | 52-2 | 1723 | 1580 | 1640 | 1648 | 4.37 | cps |
| Cobalt | 59-2 | 473 | 493 | 483 | 483 | 2.07 | cps |
| Copper | 63-2 | 5548 | 5801 | 5861 | 5737 | 2.90 | cps |
| Dysprosium | 156-1 | 67 | 97 | 47 | 70 | 35.95 | cps |
| Dysprosium | 156-2 | 7 | 13 | 27 | 16 | 65.47 | cps |
| Erbium | 164-1 | 177 | 130 | 123 | 143 | 20.27 | cps |
| Erbium | 164-2 | 43 | 50 | 40 | 44 | 11.46 | cps |
| Gadolinium | 160-1 | 173 | 160 | 137 | 157 | 11.85 | cps |
| Gadolinium | 160-2 | 27 | 57 | 30 | 38 | 43.52 | cps |
| Holmium | 165-1 | 20812026 | 20294726 | 18380374 | 19829042 | 6.46 | cps |
| Holmium | 165-2 | 6688551 | 6768090 | 6782091 | 6746244 | 0.75 | cps |
| Indium | 115-1 | 16178632 | 15956761 | 14639949 | 15591781 | 5.33 | cps |
| Indium | 115-2 | 1421869 | 1456944 | 1466711 | 1448508 | 1.63 | cps |
| Iron | 54-2 | 206458 | 209473 | 208569 | 208167 | 0.74 | cps |
| Iron | 56-2 | 3899318 | 3921990 | 3957567 | 3926292 | 0.75 | cps |
| Iron | 57-2 | 94869 | 96735 | 98121 | 96575 | 1.69 | cps |
| Krypton | 83-1 | 307 | 353 | 403 | 354 | 13.64 | cps |
| Lead | 206-1 | 2810 | 2697 | 2674 | 2727 | 2.68 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2210 | 2297 | 2180 | 2229 | 2.72 | cps |
| Lead | 208-1 | 10405 | 10735 | 10685 | 10608 | 1.68 | cps |
| Lithium | 6-1 | 9414920 | 9338026 | 8520189 | 9091045 | 5.45 | cps |
| Magnesium | 24-2 | 36296656 | 37074544 | 37821639 | 37064279 | 2.06 | cps |
| Manganese | 55-2 | 75833 | 78950 | 79047 | 77943 | 2.35 | cps |
| Molybdenum | 94-1 | 4084 | 4421 | 4151 | 4218 | 4.23 | cps |
| Molybdenum | 95-1 | 6345 | 6618 | 5958 | 6307 | 5.26 | cps |
| Molybdenum | 96-1 | 6855 | 6995 | 6768 | 6873 | 1.67 | cps |
| Molybdenum | 97-1 | 3967 | 4021 | 4041 | 4010 | 0.95 | cps |
| Molybdenum | 98-1 | 10047 | 10164 | 9513 | 9908 | 3.50 | cps |
| Neodymium | 150-1 | 53 | 110 | 100 | 88 | 34.46 | cps |
| Neodymium | 150-2 | 17 | 7 | 10 | 11 | 45.82 | cps |
| Nickel | 60-2 | 1100 | 1150 | 1063 | 1104 | 3.94 | cps |
| Phosphorus | 31-2 | 133 | 137 | 127 | 132 | 3.85 | cps |
| Potassium | 39-2 | 711370 | 727594 | 733193 | 724052 | 1.57 | cps |
| Rhodium | 103-1 | 14954696 | 14495768 | 13258309 | 14236258 | 6.16 | cps |
| Rhodium | 103-2 | 5294756 | 5334697 | 5426815 | 5352089 | 1.27 | cps |
| Scandium | 45-1 | 12003018 | 11961223 | 10796075 | 11586772 | 5.91 | cps |
| Scandium | 45-2 | 209012 | 214829 | 212978 | 212273 | 1.40 | cps |
| Selenium | 82-1 | 120 | 107 | 70 | 99 | 26.18 | cps |
| Selenium | 77-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Silicon | 28-1 | 116297262 | 116918638 | 112090528 | 115102143 | 2.28 | cps |
| Silver | 107-1 | 740 | 883 | 827 | 817 | 8.84 | cps |
| Silver | 109-1 | 340 | 393 | 557 | 430 | 26.25 | cps |
| Sodium | 23-2 | 94341755 | 96022435 | 97651345 | 96005179 | 1.72 | cps |
| Strontium | 86-1 | 79763912 | 80502514 | 77039196 | 79101874 | 2.31 | cps |
| Strontium | 88-1 | 677358430 | 697520070 | 662030257 | 678969585 | 2.62 | cps |
| Sulfur | 34-1 | 37398496 | 37967887 | 36259994 | 37208793 | 2.34 | cps |
| Terbium | 159-1 | 21123181 | 20564303 | 18810893 | 20166126 | 5.98 | cps |
| Terbium | 159-2 | 6452619 | 6588133 | 6535431 | 6525394 | 1.05 | cps |
| Thallium | 203-1 | 323 | 280 | 347 | 317 | 10.68 | cps |
| Thallium | 205-1 | 757 | 777 | 907 | 813 | 10.01 | cps |
| Tin | 118-1 | 9593 | 9680 | 8903 | 9392 | 4.53 | cps |
| Titanium | 47-1 | 2324 | 2190 | 2027 | 2180 | 6.82 | cps |
| Uranium | 238-1 | 12800 | 12640 | 11769 | 12403 | 4.47 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:14:56 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 87 | 93 | 93 | 91 | 4.22 | cps |
| Ytterbium | 172-1 | 143 | 117 | 117 | 126 | 12.26 | cps |
| Ytterbium | 172-2 | 47 | 43 | 57 | 49 | 14.20 | cps |
| Ytterbium | 176-1 | 2027 | 1807 | 1687 | 1840 | 9.37 | cps |
| Ytterbium | 176-2 | 263 | 350 | 310 | 308 | 14.09 | cps |
| Yttrium | 89-1 | 29748524 | 28699222 | 26001565 | 28149770 | 6.87 | cps |
| Yttrium | 89-2 | 1901231 | 2016515 | 1996416 | 1971387 | 3.12 | cps |
| Zinc | 66-2 | 660 | 587 | 717 | 654 | 9.96 | cps |
| Zirconium | 90-1 | 1707 | 1713 | 1633 | 1685 | 2.64 | cps |
| Zirconium | 91-1 | 347 | 360 | 423 | 377 | 10.87 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 393 | 427 | 353 | 391 | 9.39 | cps |
| Antimony | 121-1 | 243 | 287 | 247 | 259 | 9.31 | cps |
| Arsenic | 75-2 | 53 | 63 | 40 | 52 | 22.41 | cps |
| Barium | 135-1 | 64288 | 63411 | 62835 | 63511 | 1.15 | cps |
| Barium | 137-1 | 109865 | 110839 | 110661 | 110455 | 0.47 | cps |
| Beryllium | 9-1 | 417 | 404 | 374 | 398 | 5.62 | cps |
| Bismuth | 209-1 | 11488244 | 11067605 | 11040594 | 11198814 | 2.24 | cps |
| Bismuth | 209-2 | 4846419 | 4773802 | 4803074 | 4807765 | 0.76 | cps |
| Bromine | 81-1 | 118884 | 140519 | 148932 | 136112 | 11.39 | cps |
| Cadmium | 108-1 | 23 | 40 | 23 | 29 | 33.32 | cps |
| Cadmium | 106-1 | 8059 | 7532 | 7142 | 7578 | 6.07 | cps |
| Cadmium | 111-1 | 5658 | 5271 | 5026 | 5319 | 5.99 | cps |
| Calcium | 43-1 | 25880572 | 26261880 | 26056100 | 26066184 | 0.73 | cps |
| Calcium | 44-1 | 417344287 | 424249860 | 419678207 | 420424118 | 0.84 | cps |
| Carbon | 12-1 | 8947935 | 9646905 | 9974490 | 9523110 | 5.51 | cps |
| Carbon | 12-2 | 69279 | 69349 | 69550 | 69393 | 0.20 | cps |
| Chlorine | 35-1 | 34489229 | 37136003 | 37816341 | 36480524 | 4.82 | cps |
| Chlorine | 35-2 | 158976 | 161129 | 163664 | 161256 | 1.46 | cps |
| Chromium | 52-2 | 2074 | 2120 | 2057 | 2084 | 1.58 | cps |
| Cobalt | 59-2 | 480 | 433 | 420 | 444 | 7.09 | cps |
| Copper | 63-2 | 22805 | 23556 | 23056 | 23139 | 1.65 | cps |
| Dysprosium | 156-1 | 80 | 43 | 67 | 63 | 29.31 | cps |
| Dysprosium | 156-2 | 33 | 33 | 17 | 28 | 34.63 | cps |
| Erbium | 164-1 | 127 | 133 | 190 | 150 | 23.20 | cps |
| Erbium | 164-2 | 47 | 43 | 53 | 48 | 10.66 | cps |
| Gadolinium | 160-1 | 143 | 157 | 157 | 152 | 5.06 | cps |
| Gadolinium | 160-2 | 33 | 73 | 40 | 49 | 43.84 | cps |
| Holmium | 165-1 | 19636981 | 18999531 | 18822446 | 19152986 | 2.24 | cps |
| Holmium | 165-2 | 6992095 | 6948650 | 7039087 | 6993277 | 0.65 | cps |
| Indium | 115-1 | 15568992 | 15245598 | 14877988 | 15230860 | 2.27 | cps |
| Indium | 115-2 | 1559694 | 1492327 | 1584778 | 1545600 | 3.09 | cps |
| Iron | 54-2 | 234724 | 237397 | 239890 | 237337 | 1.09 | cps |
| Iron | 56-2 | 4563119 | 4490946 | 4538488 | 4530851 | 0.81 | cps |
| Iron | 57-2 | 109708 | 109358 | 110853 | 109973 | 0.71 | cps |
| Krypton | 83-1 | 270 | 377 | 373 | 340 | 17.84 | cps |
| Lead | 206-1 | 2307 | 2237 | 2350 | 2298 | 2.49 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1903 | 2037 | 1970 | 1970 | 3.38 | cps |
| Lead | 208-1 | 9251 | 8808 | 9145 | 9068 | 2.55 | cps |
| Lithium | 6-1 | 8805565 | 8708648 | 8545386 | 8686533 | 1.51 | cps |
| Magnesium | 24-2 | 38722446 | 38237239 | 38299022 | 38419569 | 0.69 | cps |
| Manganese | 55-2 | 80307 | 80760 | 80247 | 80438 | 0.35 | cps |
| Molybdenum | 94-1 | 3991 | 4227 | 3991 | 4070 | 3.36 | cps |
| Molybdenum | 95-1 | 6145 | 6368 | 6098 | 6204 | 2.33 | cps |
| Molybdenum | 96-1 | 6928 | 7045 | 6682 | 6885 | 2.70 | cps |
| Molybdenum | 97-1 | 3901 | 3881 | 3937 | 3906 | 0.74 | cps |
| Molybdenum | 98-1 | 9807 | 9924 | 9790 | 9840 | 0.74 | cps |
| Neodymium | 150-1 | 57 | 73 | 50 | 60 | 20.03 | cps |
| Neodymium | 150-2 | 27 | 17 | 23 | 22 | 22.91 | cps |
| Nickel | 60-2 | 1157 | 1193 | 1297 | 1216 | 5.97 | cps |
| Phosphorus | 31-2 | 117 | 153 | 113 | 128 | 17.37 | cps |
| Potassium | 39-2 | 742557 | 755233 | 752897 | 750229 | 0.90 | cps |
| Rhodium | 103-1 | 13961657 | 13762284 | 13493726 | 13739223 | 1.71 | cps |
| Rhodium | 103-2 | 5476418 | 5426815 | 5503827 | 5469020 | 0.71 | cps |
| Scandium | 45-1 | 11521136 | 11193215 | 10732133 | 11148828 | 3.56 | cps |
| Scandium | 45-2 | 223214 | 214832 | 223363 | 220470 | 2.21 | cps |
| Selenium | 82-1 | 170 | 43 | 40 | 84 | 87.77 | cps |
| Selenium | 77-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Selenium | 78-2 | 13 | 7 | 10 | 10 | 33.30 | cps |
| Silicon | 28-1 | 110585728 | 112472508 | 111819805 | 111626014 | 0.86 | cps |
| Silver | 107-1 | 690 | 823 | 833 | 782 | 10.23 | cps |
| Silver | 109-1 | 443 | 620 | 647 | 570 | 19.39 | cps |
| Sodium | 23-2 | 100200772 | 98574182 | 98242329 | 99005761 | 1.06 | cps |
| Strontium | 86-1 | 77618397 | 77463226 | 77641569 | 77574397 | 0.13 | cps |
| Strontium | 88-1 | 667575830 | 670368870 | 673805337 | 670583346 | 0.47 | cps |
| Sulfur | 34-1 | 36387446 | 36158893 | 36215731 | 36254023 | 0.33 | cps |
| Terbium | 159-1 | 19804878 | 19352546 | 19194467 | 19450631 | 1.63 | cps |
| Terbium | 159-2 | 6802845 | 6778246 | 6822882 | 6801324 | 0.33 | cps |
| Thallium | 203-1 | 297 | 227 | 310 | 278 | 16.12 | cps |
| Thallium | 205-1 | 723 | 647 | 680 | 683 | 5.63 | cps |
| Tin | 118-1 | 8823 | 8813 | 9170 | 8935 | 2.27 | cps |
| Titanium | 47-1 | 2514 | 2134 | 2080 | 2242 | 10.54 | cps |
| Uranium | 238-1 | 12009 | 12463 | 12590 | 12354 | 2.47 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:18:14 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 90 | 93 | 73 | 86 | 12.53 | cps |
| Ytterbium | 172-1 | 133 | 123 | 103 | 120 | 12.73 | cps |
| Ytterbium | 172-2 | 23 | 50 | 37 | 37 | 36.37 | cps |
| Ytterbium | 176-1 | 1637 | 1647 | 1843 | 1709 | 6.82 | cps |
| Ytterbium | 176-2 | 307 | 257 | 260 | 274 | 10.19 | cps |
| Yttrium | 89-1 | 27613175 | 27630773 | 26580254 | 27274734 | 2.21 | cps |
| Yttrium | 89-2 | 2006804 | 2046762 | 2054186 | 2035917 | 1.25 | cps |
| Zinc | 66-2 | 890 | 863 | 897 | 883 | 2.00 | cps |
| Zirconium | 90-1 | 1563 | 1650 | 1693 | 1636 | 4.05 | cps |
| Zirconium | 91-1 | 320 | 407 | 367 | 364 | 11.90 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 360 | 407 | 393 | 387 | 6.22 | cps |
| Antimony | 121-1 | 100 | 97 | 100 | 99 | 1.94 | cps |
| Arsenic | 75-2 | 17 | 10 | 23 | 17 | 39.99 | cps |
| Barium | 135-1 | 13297 | 13373 | 13136 | 13269 | 0.91 | cps |
| Barium | 137-1 | 24379 | 23614 | 23517 | 23837 | 1.98 | cps |
| Beryllium | 9-1 | 421 | 391 | 375 | 396 | 5.93 | cps |
| Bismuth | 209-1 | 12406977 | 12149008 | 12098329 | 12218105 | 1.35 | cps |
| Bismuth | 209-2 | 5247704 | 5495003 | 5518656 | 5420454 | 2.77 | cps |
| Bromine | 81-1 | 55560 | 57742 | 56727 | 56676 | 1.93 | cps |
| Cadmium | 108-1 | 23 | 30 | 23 | 26 | 15.07 | cps |
| Cadmium | 106-1 | 8483 | 8236 | 8263 | 8327 | 1.63 | cps |
| Cadmium | 111-1 | 5952 | 5781 | 5787 | 5840 | 1.66 | cps |
| Calcium | 43-1 | 5559931 | 5559777 | 5431143 | 5516950 | 1.35 | cps |
| Calcium | 44-1 | 89225569 | 90558869 | 86990942 | 88925126 | 2.03 | cps |
| Carbon | 12-1 | 7729166 | 8016437 | 7680444 | 7808682 | 2.33 | cps |
| Carbon | 12-2 | 49630 | 49643 | 50881 | 50051 | 1.44 | cps |
| Chlorine | 35-1 | 9599397 | 10038212 | 9777244 | 9804951 | 2.25 | cps |
| Chlorine | 35-2 | 40914 | 42018 | 41526 | 41486 | 1.33 | cps |
| Chromium | 52-2 | 1380 | 1287 | 1447 | 1371 | 5.86 | cps |
| Cobalt | 59-2 | 157 | 137 | 217 | 170 | 24.49 | cps |
| Copper | 63-2 | 6815 | 7349 | 7279 | 7147 | 4.06 | cps |
| Dysprosium | 156-1 | 17 | 37 | 23 | 26 | 39.85 | cps |
| Dysprosium | 156-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Erbium | 164-1 | 103 | 103 | 110 | 106 | 3.65 | cps |
| Erbium | 164-2 | 30 | 30 | 37 | 32 | 11.95 | cps |
| Gadolinium | 160-1 | 110 | 147 | 123 | 127 | 14.65 | cps |
| Gadolinium | 160-2 | 17 | 33 | 33 | 28 | 34.63 | cps |
| Holmium | 165-1 | 20525459 | 19972971 | 19850413 | 20116281 | 1.79 | cps |
| Holmium | 165-2 | 7277241 | 7611300 | 7881762 | 7590101 | 3.99 | cps |
| Indium | 115-1 | 16578952 | 16047541 | 15996097 | 16207530 | 1.99 | cps |
| Indium | 115-2 | 1703936 | 1764002 | 1807340 | 1758426 | 2.95 | cps |
| Iron | 54-2 | 46750 | 48188 | 48783 | 47907 | 2.18 | cps |
| Iron | 56-2 | 852717 | 881447 | 898704 | 877622 | 2.65 | cps |
| Iron | 57-2 | 21456 | 21617 | 22287 | 21787 | 2.02 | cps |
| Krypton | 83-1 | 277 | 297 | 300 | 291 | 4.34 | cps |
| Lead | 206-1 | 2177 | 2107 | 1944 | 2076 | 5.77 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1703 | 1693 | 1697 | 1698 | 0.30 | cps |
| Lead | 208-1 | 8028 | 7844 | 7878 | 7917 | 1.23 | cps |
| Lithium | 6-1 | 9492785 | 9442757 | 9262487 | 9399343 | 1.29 | cps |
| Magnesium | 24-2 | 8161746 | 8383805 | 8703461 | 8416337 | 3.24 | cps |
| Manganese | 55-2 | 21126 | 21977 | 22291 | 21798 | 2.77 | cps |
| Molybdenum | 94-1 | 1423 | 1460 | 1233 | 1372 | 8.87 | cps |
| Molybdenum | 95-1 | 1510 | 1613 | 1653 | 1592 | 4.65 | cps |
| Molybdenum | 96-1 | 1747 | 1703 | 1697 | 1716 | 1.58 | cps |
| Molybdenum | 97-1 | 1070 | 1030 | 890 | 997 | 9.48 | cps |
| Molybdenum | 98-1 | 2447 | 2490 | 2457 | 2465 | 0.92 | cps |
| Neodymium | 150-1 | 17 | 27 | 23 | 22 | 22.91 | cps |
| Neodymium | 150-2 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Nickel | 60-2 | 973 | 997 | 1070 | 1013 | 4.98 | cps |
| Phosphorus | 31-2 | 100 | 73 | 77 | 83 | 17.44 | cps |
| Potassium | 39-2 | 171007 | 174906 | 178503 | 174805 | 2.14 | cps |
| Rhodium | 103-1 | 15176679 | 15213158 | 14880731 | 15090189 | 1.21 | cps |
| Rhodium | 103-2 | 6112382 | 6383641 | 6441505 | 6312509 | 2.78 | cps |
| Scandium | 45-1 | 12109780 | 12063662 | 11760891 | 11978111 | 1.58 | cps |
| Scandium | 45-2 | 232796 | 239121 | 242479 | 238132 | 2.06 | cps |
| Selenium | 82-1 | 77 | 40 | 57 | 58 | 31.78 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 3 | 7 | 13 | 8 | 65.47 | cps |
| Silicon | 28-1 | 24326429 | 24926240 | 24113761 | 24455477 | 1.72 | cps |
| Silver | 107-1 | 563 | 637 | 600 | 600 | 6.11 | cps |
| Silver | 109-1 | 420 | 320 | 307 | 349 | 17.75 | cps |
| Sodium | 23-2 | 20981466 | 21399614 | 21735156 | 21372079 | 1.77 | cps |
| Strontium | 86-1 | 16740636 | 16901665 | 16457973 | 16700091 | 1.34 | cps |
| Strontium | 88-1 | 143748191 | 145285855 | 141390125 | 143474723 | 1.37 | cps |
| Sulfur | 34-1 | 8437985 | 8575562 | 8289403 | 8434317 | 1.70 | cps |
| Terbium | 159-1 | 20969092 | 20884540 | 20363195 | 20738942 | 1.58 | cps |
| Terbium | 159-2 | 7170444 | 7322984 | 7456563 | 7316664 | 1.96 | cps |
| Thallium | 203-1 | 307 | 337 | 303 | 316 | 5.82 | cps |
| Thallium | 205-1 | 770 | 657 | 787 | 738 | 9.59 | cps |
| Tin | 118-1 | 4888 | 4598 | 4477 | 4654 | 4.53 | cps |
| Titanium | 47-1 | 747 | 680 | 743 | 723 | 5.19 | cps |
| Uranium | 238-1 | 2604 | 2760 | 2580 | 2648 | 3.70 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 14:21:29 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 20 | 20 | 43 | 28 | 48.49 | cps |
| Ytterbium | 172-1 | 127 | 133 | 120 | 127 | 5.27 | cps |
| Ytterbium | 172-2 | 63 | 33 | 87 | 61 | 43.76 | cps |
| Ytterbium | 176-1 | 1957 | 1940 | 1934 | 1944 | 0.62 | cps |
| Ytterbium | 176-2 | 320 | 310 | 333 | 321 | 3.64 | cps |
| Yttrium | 89-1 | 29690748 | 29738308 | 28739565 | 29389540 | 1.92 | cps |
| Yttrium | 89-2 | 2173982 | 2246527 | 2237155 | 2219221 | 1.78 | cps |
| Zinc | 66-2 | 647 | 723 | 727 | 699 | 6.48 | cps |
| Zirconium | 90-1 | 1143 | 1150 | 1230 | 1175 | 4.11 | cps |
| Zirconium | 91-1 | 213 | 200 | 213 | 209 | 3.69 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 150068 | 152193 | 152887 | 151716 | 0.97 | cps |
| Antimony | 121-1 | 1822016 | 1805463 | 1842762 | 1823413 | 1.02 | cps |
| Arsenic | 75-2 | 15636 | 15245 | 15355 | 15412 | 1.31 | cps |
| Barium | 135-1 | 8421172 | 8574788 | 8615105 | 8537022 | 1.20 | cps |
| Barium | 137-1 | 14540089 | 14743365 | 14774343 | 14685932 | 0.87 | cps |
| Beryllium | 9-1 | 321209 | 327191 | 327738 | 325380 | 1.11 | cps |
| Bismuth | 209-1 | 11318538 | 11626502 | 11245226 | 11396755 | 1.78 | cps |
| Bismuth | 209-2 | 5299446 | 5016962 | 5111537 | 5142648 | 2.80 | cps |
| Bromine | 81-1 | 108884 | 131937 | 144007 | 128276 | 13.91 | cps |
| Cadmium | 108-1 | 12869 | 13774 | 13273 | 13305 | 3.40 | cps |
| Cadmium | 106-1 | 26499 | 26886 | 26425 | 26604 | 0.93 | cps |
| Cadmium | 111-1 | 208151 | 208388 | 210457 | 208999 | 0.61 | cps |
| Calcium | 43-1 | 27056514 | 26993879 | 27494630 | 27181674 | 1.00 | cps |
| Calcium | 44-1 | 436109780 | 439281793 | 437190367 | 437527313 | 0.37 | cps |
| Carbon | 12-1 | 8775668 | 9613355 | 9870165 | 9419729 | 6.08 | cps |
| Carbon | 12-2 | 69714 | 70588 | 70029 | 70111 | 0.63 | cps |
| Chlorine | 35-1 | 65207399 | 71280364 | 73720412 | 70069392 | 6.26 | cps |
| Chlorine | 35-2 | 317233 | 319280 | 321839 | 319450 | 0.72 | cps |
| Chromium | 52-2 | 850001 | 861734 | 861291 | 857675 | 0.78 | cps |
| Cobalt | 59-2 | 4090756 | 4112263 | 4073445 | 4092155 | 0.48 | cps |
| Copper | 63-2 | 1562054 | 1476451 | 1485540 | 1508015 | 3.12 | cps |
| Dysprosium | 156-1 | 120 | 113 | 140 | 124 | 11.15 | cps |
| Dysprosium | 156-2 | 33 | 20 | 13 | 22 | 45.83 | cps |
| Erbium | 164-1 | 143 | 147 | 150 | 147 | 2.27 | cps |
| Erbium | 164-2 | 57 | 80 | 67 | 68 | 17.27 | cps |
| Gadolinium | 160-1 | 147 | 230 | 153 | 177 | 26.21 | cps |
| Gadolinium | 160-2 | 50 | 50 | 57 | 52 | 7.37 | cps |
| Holmium | 165-1 | 19749070 | 20244311 | 19106422 | 19699934 | 2.90 | cps |
| Holmium | 165-2 | 7675600 | 7318969 | 7464433 | 7486334 | 2.40 | cps |
| Indium | 115-1 | 15664274 | 16091858 | 15290967 | 15682366 | 2.56 | cps |
| Indium | 115-2 | 1726429 | 1651437 | 1651015 | 1676293 | 2.59 | cps |
| Iron | 54-2 | 425383 | 425820 | 430387 | 427197 | 0.65 | cps |
| Iron | 56-2 | 7609792 | 7527773 | 7566393 | 7567986 | 0.54 | cps |
| Iron | 57-2 | 184159 | 185375 | 185136 | 184890 | 0.35 | cps |
| Krypton | 83-1 | 350 | 353 | 327 | 343 | 4.23 | cps |
| Lead | 206-1 | 253583 | 257606 | 258639 | 256609 | 1.04 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 219111 | 218999 | 223016 | 220376 | 1.04 | cps |
| Lead | 208-1 | 1007486 | 1017182 | 1027910 | 1017526 | 1.00 | cps |
| Lithium | 6-1 | 9033348 | 9252075 | 8844763 | 9043395 | 2.25 | cps |
| Magnesium | 24-2 | 39780363 | 40266687 | 40382265 | 40143105 | 0.80 | cps |
| Manganese | 55-2 | 916877 | 921996 | 919020 | 919298 | 0.28 | cps |
| Molybdenum | 94-1 | 4467 | 4731 | 4501 | 4566 | 3.14 | cps |
| Molybdenum | 95-1 | 6522 | 6638 | 7075 | 6745 | 4.33 | cps |
| Molybdenum | 96-1 | 7422 | 7555 | 7312 | 7430 | 1.64 | cps |
| Molybdenum | 97-1 | 3981 | 4031 | 4217 | 4076 | 3.06 | cps |
| Molybdenum | 98-1 | 10564 | 10180 | 10934 | 10560 | 3.57 | cps |
| Neodymium | 150-1 | 687 | 657 | 613 | 652 | 5.65 | cps |
| Neodymium | 150-2 | 27 | 23 | 27 | 26 | 7.55 | cps |
| Nickel | 60-2 | 1052459 | 1057031 | 1053283 | 1054258 | 0.23 | cps |
| Phosphorus | 31-2 | 173 | 157 | 163 | 164 | 5.10 | cps |
| Potassium | 39-2 | 799719 | 805364 | 801104 | 802062 | 0.37 | cps |
| Rhodium | 103-1 | 14228182 | 14503136 | 13804968 | 14178762 | 2.48 | cps |
| Rhodium | 103-2 | 6109144 | 5772233 | 5910977 | 5930785 | 2.86 | cps |
| Scandium | 45-1 | 11524238 | 11963398 | 11434444 | 11640693 | 2.43 | cps |
| Scandium | 45-2 | 245391 | 233436 | 238232 | 239020 | 2.52 | cps |
| Selenium | 82-1 | 5118 | 5161 | 5134 | 5138 | 0.43 | cps |
| Selenium | 77-2 | 63 | 103 | 77 | 81 | 25.11 | cps |
| Selenium | 78-2 | 337 | 313 | 310 | 320 | 4.54 | cps |
| Silicon | 28-1 | 119629105 | 120293788 | 120329445 | 120084113 | 0.33 | cps |
| Silver | 107-1 | 978258 | 1003689 | 1008620 | 996855 | 1.63 | cps |
| Silver | 109-1 | 938201 | 946282 | 959422 | 947968 | 1.13 | cps |
| Sodium | 23-2 | 103554152 | 105094088 | 103826792 | 104158344 | 0.79 | cps |
| Strontium | 86-1 | 80014095 | 81091734 | 81432619 | 80846149 | 0.92 | cps |
| Strontium | 88-1 | 698152363 | 698478576 | 704889643 | 700506861 | 0.54 | cps |
| Sulfur | 34-1 | 37970750 | 38148034 | 38955184 | 38357989 | 1.37 | cps |
| Terbium | 159-1 | 20233530 | 21161967 | 20029703 | 20475067 | 2.95 | cps |
| Terbium | 159-2 | 7387912 | 7146429 | 7111027 | 7215123 | 2.09 | cps |
| Thallium | 203-1 | 779990 | 791130 | 793649 | 788256 | 0.92 | cps |
| Thallium | 205-1 | 2012993 | 2001264 | 2011215 | 2008491 | 0.31 | cps |
| Tin | 118-1 | 10174 | 10274 | 10077 | 10175 | 0.97 | cps |
| Titanium | 47-1 | 2314 | 2547 | 2340 | 2400 | 5.32 | cps |
| Uranium | 238-1 | 12850 | 12760 | 12696 | 12769 | 0.60 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:24:41 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1755876 | 1716500 | 1784744 | 1752374 | 1.95 | cps |
| Ytterbium | 172-1 | 123 | 130 | 173 | 142 | 19.09 | cps |
| Ytterbium | 172-2 | 37 | 43 | 53 | 44 | 18.87 | cps |
| Ytterbium | 176-1 | 1863 | 1873 | 1833 | 1857 | 1.12 | cps |
| Ytterbium | 176-2 | 343 | 283 | 280 | 302 | 11.79 | cps |
| Yttrium | 89-1 | 28969414 | 29309653 | 27874815 | 28717961 | 2.61 | cps |
| Yttrium | 89-2 | 2265221 | 2195389 | 2150044 | 2203551 | 2.63 | cps |
| Zinc | 66-2 | 305966 | 309465 | 307162 | 307531 | 0.58 | cps |
| Zirconium | 90-1 | 2460 | 2600 | 2494 | 2518 | 2.90 | cps |
| Zirconium | 91-1 | 607 | 733 | 670 | 670 | 9.45 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49996 | 50457 | 50223 | 50225 | 0.46 | cps |
| Antimony | 121-1 | 1557 | 1900 | 1820 | 1759 | 10.21 | cps |
| Arsenic | 75-2 | 943 | 930 | 900 | 924 | 2.40 | cps |
| Barium | 135-1 | 177028 | 178338 | 178861 | 178076 | 0.53 | cps |
| Barium | 137-1 | 308432 | 310502 | 311324 | 310086 | 0.48 | cps |
| Beryllium | 9-1 | 551 | 510 | 522 | 528 | 4.01 | cps |
| Bismuth | 209-1 | 11324929 | 12497489 | 12351881 | 12058100 | 5.30 | cps |
| Bismuth | 209-2 | 5530582 | 5502276 | 5588671 | 5540510 | 0.79 | cps |
| Bromine | 81-1 | 237487 | 257911 | 269961 | 255119 | 6.43 | cps |
| Cadmium | 108-1 | 217 | 193 | 213 | 208 | 6.07 | cps |
| Cadmium | 106-1 | 8256 | 9036 | 8579 | 8624 | 4.55 | cps |
| Cadmium | 111-1 | 5907 | 6453 | 6110 | 6157 | 4.48 | cps |
| Calcium | 43-1 | 8781310 | 8733553 | 8821218 | 8778694 | 0.50 | cps |
| Calcium | 44-1 | 140521018 | 141703541 | 143963531 | 142062697 | 1.23 | cps |
| Carbon | 12-1 | 17960326 | 19192138 | 19746037 | 18966167 | 4.82 | cps |
| Carbon | 12-2 | 128502 | 129804 | 131058 | 129788 | 0.98 | cps |
| Chlorine | 35-1 | 6583423 | 6361854 | 6166254 | 6370510 | 3.28 | cps |
| Chlorine | 35-2 | 23676 | 23149 | 22421 | 23082 | 2.73 | cps |
| Chromium | 52-2 | 1963 | 2020 | 1900 | 1961 | 3.06 | cps |
| Cobalt | 59-2 | 1237 | 1380 | 1337 | 1318 | 5.58 | cps |
| Copper | 63-2 | 10180 | 9773 | 9897 | 9950 | 2.10 | cps |
| Dysprosium | 156-1 | 33 | 67 | 37 | 46 | 40.30 | cps |
| Dysprosium | 156-2 | 23 | 20 | 10 | 18 | 39.03 | cps |
| Erbium | 164-1 | 100 | 160 | 153 | 138 | 23.87 | cps |
| Erbium | 164-2 | 37 | 53 | 47 | 46 | 18.41 | cps |
| Gadolinium | 160-1 | 160 | 140 | 150 | 150 | 6.67 | cps |
| Gadolinium | 160-2 | 23 | 33 | 30 | 29 | 17.63 | cps |
| Holmium | 165-1 | 19050571 | 20245340 | 20426649 | 19907520 | 3.76 | cps |
| Holmium | 165-2 | 7727450 | 7839739 | 7762897 | 7776695 | 0.74 | cps |
| Indium | 115-1 | 15036435 | 16372502 | 16511717 | 15973551 | 5.10 | cps |
| Indium | 115-2 | 1789892 | 1761518 | 1765304 | 1772238 | 0.87 | cps |
| Iron | 54-2 | 3627 | 3931 | 3601 | 3719 | 4.93 | cps |
| Iron | 56-2 | 66902 | 66481 | 65436 | 66273 | 1.14 | cps |
| Iron | 57-2 | 2010 | 1997 | 2070 | 2026 | 1.93 | cps |
| Krypton | 83-1 | 250 | 293 | 300 | 281 | 9.66 | cps |
| Lead | 206-1 | 4367 | 4361 | 4344 | 4357 | 0.28 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3524 | 3624 | 3811 | 3653 | 3.98 | cps |
| Lead | 208-1 | 16598 | 16568 | 16898 | 16688 | 1.09 | cps |
| Lithium | 6-1 | 9323565 | 9696331 | 9907557 | 9642484 | 3.07 | cps |
| Magnesium | 24-2 | 11491 | 12115 | 11585 | 11730 | 2.87 | cps |
| Manganese | 55-2 | 3590 | 3771 | 3714 | 3692 | 2.49 | cps |
| Molybdenum | 94-1 | 230556 | 232890 | 234473 | 232640 | 0.85 | cps |
| Molybdenum | 95-1 | 398031 | 402589 | 401857 | 400826 | 0.61 | cps |
| Molybdenum | 96-1 | 425983 | 431372 | 431279 | 429544 | 0.72 | cps |
| Molybdenum | 97-1 | 247748 | 252237 | 251268 | 250418 | 0.94 | cps |
| Molybdenum | 98-1 | 638214 | 638053 | 643951 | 640073 | 0.52 | cps |
| Neodymium | 150-1 | 43 | 30 | 47 | 40 | 22.05 | cps |
| Neodymium | 150-2 | 13 | 0 | 20 | 11 | 91.66 | cps |
| Nickel | 60-2 | 361620 | 360109 | 359447 | 360392 | 0.31 | cps |
| Phosphorus | 31-2 | 1553 | 1670 | 1700 | 1641 | 4.72 | cps |
| Potassium | 39-2 | 10534088 | 10479176 | 10249369 | 10420878 | 1.45 | cps |
| Rhodium | 103-1 | 14292120 | 15574468 | 15499634 | 15122074 | 4.76 | cps |
| Rhodium | 103-2 | 6392339 | 6319563 | 6323536 | 6345146 | 0.64 | cps |
| Scandium | 45-1 | 11272161 | 12052771 | 12290786 | 11871906 | 4.49 | cps |
| Scandium | 45-2 | 245200 | 246687 | 245425 | 245771 | 0.33 | cps |
| Selenium | 82-1 | 493 | 467 | 473 | 478 | 2.90 | cps |
| Selenium | 77-2 | 0 | 17 | 10 | 9 | 94.38 | cps |
| Selenium | 78-2 | 20 | 33 | 33 | 29 | 26.64 | cps |
| Silicon | 28-1 | 34224025 | 35203359 | 35256569 | 34894651 | 1.67 | cps |
| Silver | 107-1 | 1147 | 887 | 913 | 982 | 14.56 | cps |
| Silver | 109-1 | 870 | 963 | 770 | 868 | 11.14 | cps |
| Sodium | 23-2 | 17856761 | 17773911 | 17890473 | 17840382 | 0.34 | cps |
| Strontium | 86-1 | 7957234 | 8064803 | 8034892 | 8018977 | 0.69 | cps |
| Strontium | 88-1 | 69516806 | 69353392 | 69843062 | 69571087 | 0.36 | cps |
| Sulfur | 34-1 | 1949773 | 1942937 | 1970520 | 1954410 | 0.73 | cps |
| Terbium | 159-1 | 19518132 | 20738338 | 21340173 | 20532214 | 4.52 | cps |
| Terbium | 159-2 | 7598246 | 7550106 | 7371014 | 7506455 | 1.60 | cps |
| Thallium | 203-1 | 630 | 533 | 537 | 567 | 9.68 | cps |
| Thallium | 205-1 | 1203 | 1320 | 1197 | 1240 | 5.59 | cps |
| Tin | 118-1 | 8323 | 8846 | 8636 | 8602 | 3.06 | cps |
| Titanium | 47-1 | 2307 | 2120 | 2000 | 2142 | 7.21 | cps |
| Uranium | 238-1 | 120 | 70 | 57 | 82 | 40.61 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2963 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:28:11 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9310 | 9433 | 9210 | 9318 | 1.20 | cps |
| Ytterbium | 172-1 | 123 | 117 | 123 | 121 | 3.18 | cps |
| Ytterbium | 172-2 | 83 | 60 | 70 | 71 | 16.46 | cps |
| Ytterbium | 176-1 | 2267 | 2130 | 2204 | 2200 | 3.11 | cps |
| Ytterbium | 176-2 | 333 | 410 | 347 | 363 | 11.27 | cps |
| Yttrium | 89-1 | 27806540 | 29934507 | 30480595 | 29407214 | 4.80 | cps |
| Yttrium | 89-2 | 2303674 | 2302109 | 2245262 | 2283681 | 1.46 | cps |
| Zinc | 66-2 | 1250 | 1227 | 1220 | 1232 | 1.28 | cps |
| Zirconium | 90-1 | 1337 | 1327 | 1313 | 1326 | 0.88 | cps |
| Zirconium | 91-1 | 267 | 293 | 310 | 290 | 7.54 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4744 | 4471 | 4437 | 4551 | 3.70 | cps |
| Antimony | 121-1 | 3644 | 3487 | 3490 | 3540 | 2.53 | cps |
| Arsenic | 75-2 | 473 | 607 | 493 | 524 | 13.71 | cps |
| Barium | 135-1 | 91999 | 94241 | 93359 | 93200 | 1.21 | cps |
| Barium | 137-1 | 161138 | 162244 | 160865 | 161416 | 0.45 | cps |
| Beryllium | 9-1 | 381 | 464 | 435 | 427 | 9.81 | cps |
| Bismuth | 209-1 | 11643701 | 12167888 | 12420971 | 12077520 | 3.28 | cps |
| Bismuth | 209-2 | 5413220 | 5388088 | 6336363 | 5712557 | 9.46 | cps |
| Bromine | 81-1 | 228515 | 267491 | 294124 | 263377 | 12.53 | cps |
| Cadmium | 108-1 | 137 | 227 | 170 | 178 | 25.59 | cps |
| Cadmium | 106-1 | 8173 | 9040 | 8713 | 8642 | 5.07 | cps |
| Cadmium | 111-1 | 5978 | 6459 | 6307 | 6248 | 3.93 | cps |
| Calcium | 43-1 | 1124550 | 1134180 | 1127985 | 1128905 | 0.43 | cps |
| Calcium | 44-1 | 18772795 | 18560585 | 18470700 | 18601360 | 0.83 | cps |
| Carbon | 12-1 | 11988525 | 12603654 | 12952846 | 12515008 | 3.90 | cps |
| Carbon | 12-2 | 84089 | 83475 | 84893 | 84152 | 0.85 | cps |
| Chlorine | 35-1 | 5853502 | 6415722 | 6545471 | 6271565 | 5.86 | cps |
| Chlorine | 35-2 | 27242 | 27493 | 26865 | 27200 | 1.16 | cps |
| Chromium | 52-2 | 1813 | 1580 | 1687 | 1693 | 6.90 | cps |
| Cobalt | 59-2 | 1033 | 917 | 1010 | 987 | 6.26 | cps |
| Copper | 63-2 | 27781 | 27951 | 26588 | 27440 | 2.71 | cps |
| Dysprosium | 156-1 | 43 | 23 | 33 | 33 | 30.00 | cps |
| Dysprosium | 156-2 | 7 | 3 | 10 | 7 | 50.03 | cps |
| Erbium | 164-1 | 77 | 140 | 117 | 111 | 28.83 | cps |
| Erbium | 164-2 | 33 | 40 | 53 | 42 | 24.12 | cps |
| Gadolinium | 160-1 | 147 | 167 | 183 | 166 | 11.09 | cps |
| Gadolinium | 160-2 | 17 | 47 | 60 | 41 | 53.98 | cps |
| Holmium | 165-1 | 18768578 | 20188387 | 20235899 | 19730955 | 4.23 | cps |
| Holmium | 165-2 | 7473225 | 7661340 | 8810440 | 7981668 | 9.07 | cps |
| Indium | 115-1 | 15117094 | 16550659 | 16569817 | 16079190 | 5.18 | cps |
| Indium | 115-2 | 1700662 | 1704121 | 1973107 | 1792630 | 8.72 | cps |
| Iron | 54-2 | 22234 | 21900 | 21383 | 21839 | 1.96 | cps |
| Iron | 56-2 | 399118 | 395031 | 388887 | 394345 | 1.31 | cps |
| Iron | 57-2 | 9813 | 10057 | 10344 | 10071 | 2.64 | cps |
| Krypton | 83-1 | 297 | 283 | 293 | 291 | 2.38 | cps |
| Lead | 206-1 | 2877 | 2510 | 2424 | 2604 | 9.24 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2284 | 2214 | 2237 | 2245 | 1.59 | cps |
| Lead | 208-1 | 10475 | 9895 | 9768 | 10046 | 3.75 | cps |
| Lithium | 6-1 | 9271784 | 9757659 | 9906701 | 9645381 | 3.44 | cps |
| Magnesium | 24-2 | 129482 | 131695 | 127545 | 129574 | 1.60 | cps |
| Manganese | 55-2 | 14237 | 14381 | 14247 | 14288 | 0.56 | cps |
| Molybdenum | 94-1 | 177011 | 176213 | 178418 | 177214 | 0.63 | cps |
| Molybdenum | 95-1 | 305247 | 307406 | 308922 | 307192 | 0.60 | cps |
| Molybdenum | 96-1 | 327459 | 329813 | 328244 | 328505 | 0.36 | cps |
| Molybdenum | 97-1 | 189840 | 190851 | 192769 | 191153 | 0.78 | cps |
| Molybdenum | 98-1 | 490577 | 490729 | 491064 | 490790 | 0.05 | cps |
| Neodymium | 150-1 | 33 | 67 | 47 | 49 | 34.32 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 58500 | 58128 | 56244 | 57624 | 2.10 | cps |
| Phosphorus | 31-2 | 593 | 517 | 630 | 580 | 9.97 | cps |
| Potassium | 39-2 | 13412647 | 13312261 | 13067958 | 13264289 | 1.34 | cps |
| Rhodium | 103-1 | 14697973 | 15026924 | 15248159 | 14991019 | 1.85 | cps |
| Rhodium | 103-2 | 6271518 | 6153881 | 7154166 | 6526522 | 8.38 | cps |
| Scandium | 45-1 | 11252091 | 12108082 | 11925701 | 11761958 | 3.83 | cps |
| Scandium | 45-2 | 235171 | 235952 | 269427 | 246850 | 7.92 | cps |
| Selenium | 82-1 | 287 | 297 | 300 | 294 | 2.36 | cps |
| Selenium | 77-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Selenium | 78-2 | 30 | 23 | 30 | 28 | 13.86 | cps |
| Silicon | 28-1 | 29029458 | 29273052 | 29403806 | 29235439 | 0.65 | cps |
| Silver | 107-1 | 593 | 700 | 443 | 579 | 22.27 | cps |
| Silver | 109-1 | 403 | 450 | 487 | 447 | 9.35 | cps |
| Sodium | 23-2 | 29918416 | 30059963 | 29536404 | 29838261 | 0.91 | cps |
| Strontium | 86-1 | 2980021 | 3085862 | 2997691 | 3021191 | 1.88 | cps |
| Strontium | 88-1 | 26044379 | 25366828 | 26100017 | 25837075 | 1.58 | cps |
| Sulfur | 34-1 | 1954003 | 1935262 | 1901918 | 1930395 | 1.37 | cps |
| Terbium | 159-1 | 19587379 | 20952645 | 20616179 | 20385401 | 3.49 | cps |
| Terbium | 159-2 | 7249789 | 7195956 | 8430562 | 7625436 | 9.15 | cps |
| Thallium | 203-1 | 453 | 417 | 417 | 429 | 4.94 | cps |
| Thallium | 205-1 | 967 | 1000 | 1017 | 994 | 2.56 | cps |
| Tin | 118-1 | 8329 | 8122 | 8039 | 8164 | 1.83 | cps |
| Titanium | 47-1 | 1303 | 1323 | 1397 | 1341 | 3.66 | cps |
| Uranium | 238-1 | 6405 | 6682 | 6535 | 6541 | 2.12 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2967 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:31:25 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5985 | 6095 | 5625 | 5901 | 4.17 | cps |
| Ytterbium | 172-1 | 117 | 113 | 143 | 124 | 13.22 | cps |
| Ytterbium | 172-2 | 43 | 37 | 73 | 51 | 38.21 | cps |
| Ytterbium | 176-1 | 1833 | 2117 | 2040 | 1997 | 7.34 | cps |
| Ytterbium | 176-2 | 317 | 240 | 367 | 308 | 20.73 | cps |
| Yttrium | 89-1 | 27429296 | 29220805 | 28997486 | 28549196 | 3.42 | cps |
| Yttrium | 89-2 | 2236872 | 2195223 | 2486068 | 2306054 | 6.82 | cps |
| Zinc | 66-2 | 3170 | 3057 | 3190 | 3139 | 2.29 | cps |
| Zirconium | 90-1 | 1173 | 1430 | 1270 | 1291 | 10.04 | cps |
| Zirconium | 91-1 | 243 | 250 | 220 | 238 | 6.63 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 62514 | 62694 | 61171 | 62126 | 1.34 | cps |
| Antimony | 121-1 | 1980 | 2050 | 1937 | 1989 | 2.88 | cps |
| Arsenic | 75-2 | 2000 | 1813 | 2050 | 1955 | 6.38 | cps |
| Barium | 135-1 | 212455 | 214621 | 216939 | 214672 | 1.04 | cps |
| Barium | 137-1 | 365263 | 376343 | 375072 | 372226 | 1.63 | cps |
| Beryllium | 9-1 | 412 | 380 | 427 | 407 | 5.97 | cps |
| Bismuth | 209-1 | 10591205 | 11669891 | 12014463 | 11425186 | 6.50 | cps |
| Bismuth | 209-2 | 5407267 | 5884795 | 6051968 | 5781343 | 5.79 | cps |
| Bromine | 81-1 | 668386 | 783182 | 852360 | 767976 | 12.10 | cps |
| Cadmium | 108-1 | 413 | 427 | 397 | 412 | 3.65 | cps |
| Cadmium | 106-1 | 7349 | 8553 | 8469 | 8124 | 8.28 | cps |
| Cadmium | 111-1 | 5291 | 6188 | 6091 | 5857 | 8.40 | cps |
| Calcium | 43-1 | 6940115 | 7029121 | 7057323 | 7008853 | 0.87 | cps |
| Calcium | 44-1 | 113220705 | 112258308 | 114206062 | 113228358 | 0.86 | cps |
| Carbon | 12-1 | 38159030 | 41967954 | 44863266 | 41663417 | 8.07 | cps |
| Carbon | 12-2 | 303980 | 302616 | 305233 | 303943 | 0.43 | cps |
| Chlorine | 35-1 | 13854778 | 15202272 | 15695998 | 14917683 | 6.39 | cps |
| Chlorine | 35-2 | 67684 | 66703 | 68240 | 67542 | 1.15 | cps |
| Chromium | 52-2 | 4097 | 4091 | 4101 | 4096 | 0.12 | cps |
| Cobalt | 59-2 | 1493 | 1227 | 1330 | 1350 | 9.96 | cps |
| Copper | 63-2 | 20398 | 20171 | 20832 | 20467 | 1.64 | cps |
| Dysprosium | 156-1 | 23 | 27 | 30 | 27 | 12.51 | cps |
| Dysprosium | 156-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Erbium | 164-1 | 90 | 100 | 87 | 92 | 7.52 | cps |
| Erbium | 164-2 | 33 | 33 | 43 | 37 | 15.75 | cps |
| Gadolinium | 160-1 | 147 | 127 | 107 | 127 | 15.79 | cps |
| Gadolinium | 160-2 | 33 | 27 | 27 | 29 | 13.31 | cps |
| Holmium | 165-1 | 17987597 | 19738326 | 20420075 | 19381999 | 6.47 | cps |
| Holmium | 165-2 | 7590483 | 8344642 | 8675376 | 8203500 | 6.78 | cps |
| Indium | 115-1 | 13989369 | 15617905 | 16177382 | 15261552 | 7.45 | cps |
| Indium | 115-2 | 1693749 | 1891616 | 1965399 | 1850255 | 7.59 | cps |
| Iron | 54-2 | 3374 | 3257 | 3280 | 3304 | 1.87 | cps |
| Iron | 56-2 | 57345 | 57050 | 56123 | 56839 | 1.12 | cps |
| Iron | 57-2 | 1710 | 1707 | 1617 | 1678 | 3.16 | cps |
| Krypton | 83-1 | 290 | 310 | 307 | 302 | 3.54 | cps |
| Lead | 206-1 | 2080 | 2120 | 2054 | 2085 | 1.61 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1687 | 1670 | 1710 | 1689 | 1.19 | cps |
| Lead | 208-1 | 7984 | 8148 | 8061 | 8064 | 1.01 | cps |
| Lithium | 6-1 | 8699331 | 9695893 | 9744388 | 9379871 | 6.29 | cps |
| Magnesium | 24-2 | 3327 | 3040 | 3290 | 3219 | 4.85 | cps |
| Manganese | 55-2 | 1583 | 1657 | 1650 | 1630 | 2.49 | cps |
| Molybdenum | 94-1 | 443870 | 450113 | 447547 | 447177 | 0.70 | cps |
| Molybdenum | 95-1 | 766521 | 773749 | 777706 | 772659 | 0.73 | cps |
| Molybdenum | 96-1 | 826205 | 830296 | 838383 | 831628 | 0.75 | cps |
| Molybdenum | 97-1 | 476091 | 488086 | 491463 | 485213 | 1.66 | cps |
| Molybdenum | 98-1 | 1243957 | 1250341 | 1250475 | 1248258 | 0.30 | cps |
| Neodymium | 150-1 | 53 | 20 | 50 | 41 | 44.65 | cps |
| Neodymium | 150-2 | 3 | 7 | 3 | 4 | 43.40 | cps |
| Nickel | 60-2 | 986881 | 981558 | 975251 | 981230 | 0.59 | cps |
| Phosphorus | 31-2 | 2357 | 2564 | 2497 | 2472 | 4.27 | cps |
| Potassium | 39-2 | 32710202 | 31994172 | 31973149 | 32225841 | 1.30 | cps |
| Rhodium | 103-1 | 13236829 | 14590518 | 14953567 | 14260305 | 6.34 | cps |
| Rhodium | 103-2 | 6186944 | 6765814 | 7020375 | 6657711 | 6.42 | cps |
| Scandium | 45-1 | 10463550 | 11554511 | 11890123 | 11302728 | 6.60 | cps |
| Scandium | 45-2 | 239386 | 260944 | 275502 | 258611 | 7.03 | cps |
| Selenium | 82-1 | 507 | 460 | 580 | 516 | 11.73 | cps |
| Selenium | 77-2 | 7 | 10 | 13 | 10 | 33.30 | cps |
| Selenium | 78-2 | 23 | 27 | 20 | 23 | 14.29 | cps |
| Silicon | 28-1 | 41705029 | 41958328 | 42604594 | 42089317 | 1.10 | cps |
| Silver | 107-1 | 460 | 450 | 467 | 459 | 1.83 | cps |
| Silver | 109-1 | 300 | 363 | 303 | 322 | 11.06 | cps |
| Sodium | 23-2 | 67864687 | 67750297 | 67699744 | 67771576 | 0.12 | cps |
| Strontium | 86-1 | 13003204 | 13078919 | 12845514 | 12975879 | 0.92 | cps |
| Strontium | 88-1 | 112375592 | 113377805 | 112211982 | 112655126 | 0.56 | cps |
| Sulfur | 34-1 | 1918342 | 1906489 | 1877644 | 1900825 | 1.10 | cps |
| Terbium | 159-1 | 18285196 | 20634076 | 20864885 | 19928052 | 7.16 | cps |
| Terbium | 159-2 | 7433297 | 8022962 | 8297950 | 7918070 | 5.58 | cps |
| Thallium | 203-1 | 303 | 383 | 313 | 333 | 13.08 | cps |
| Thallium | 205-1 | 877 | 750 | 783 | 803 | 8.17 | cps |
| Tin | 118-1 | 9106 | 9173 | 9764 | 9348 | 3.87 | cps |
| Titanium | 47-1 | 2420 | 2430 | 2264 | 2371 | 3.94 | cps |
| Uranium | 238-1 | 33 | 53 | 33 | 40 | 28.87 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2965 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:34:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9890 | 9833 | 9823 | 9849 | 0.37 | cps |
| Ytterbium | 172-1 | 110 | 120 | 107 | 112 | 6.18 | cps |
| Ytterbium | 172-2 | 47 | 63 | 73 | 61 | 22.04 | cps |
| Ytterbium | 176-1 | 1733 | 1967 | 2144 | 1948 | 10.56 | cps |
| Ytterbium | 176-2 | 290 | 437 | 347 | 358 | 20.67 | cps |
| Yttrium | 89-1 | 25897125 | 28879908 | 29163520 | 27980184 | 6.47 | cps |
| Yttrium | 89-2 | 2226202 | 2462613 | 2513651 | 2400822 | 6.39 | cps |
| Zinc | 66-2 | 1107 | 1043 | 997 | 1049 | 5.26 | cps |
| Zirconium | 90-1 | 1083 | 1053 | 1167 | 1101 | 5.33 | cps |
| Zirconium | 91-1 | 203 | 190 | 247 | 213 | 13.89 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3827241 | 3795000 | 3839696 | 3820646 | 0.60 | cps |
| Antimony | 121-1 | 8525720 | 8530642 | 8539083 | 8531815 | 0.08 | cps |
| Arsenic | 75-2 | 180716 | 180916 | 181955 | 181196 | 0.37 | cps |
| Barium | 135-1 | 10218199 | 10311993 | 10151618 | 10227270 | 0.79 | cps |
| Barium | 137-1 | 17343108 | 17861529 | 17623989 | 17609542 | 1.47 | cps |
| Beryllium | 9-1 | 3151277 | 3200127 | 3197006 | 3182803 | 0.86 | cps |
| Bismuth | 209-1 | 11259982 | 11475697 | 11430372 | 11388684 | 1.00 | cps |
| Bismuth | 209-2 | 4999912 | 4998433 | 4886906 | 4961750 | 1.31 | cps |
| Bromine | 81-1 | 133037 | 122570 | 113518 | 123042 | 7.94 | cps |
| Cadmium | 108-1 | 163193 | 166293 | 165291 | 164926 | 0.96 | cps |
| Cadmium | 106-1 | 237425 | 244822 | 241928 | 241392 | 1.54 | cps |
| Cadmium | 111-1 | 2014161 | 2091356 | 2083876 | 2063131 | 2.06 | cps |
| Calcium | 43-1 | 14255671 | 14299266 | 14306740 | 14287226 | 0.19 | cps |
| Calcium | 44-1 | 231915337 | 229181677 | 232777517 | 231291510 | 0.81 | cps |
| Carbon | 12-1 | 10537287 | 10222388 | 9999194 | 10252956 | 2.64 | cps |
| Carbon | 12-2 | 66342 | 65689 | 64551 | 65527 | 1.38 | cps |
| Chlorine | 35-1 | 1876699 | 1790921 | 1729447 | 1799022 | 4.11 | cps |
| Chlorine | 35-2 | 6582 | 6178 | 5818 | 6192 | 6.17 | cps |
| Chromium | 52-2 | 2095717 | 2112936 | 2054208 | 2087621 | 1.45 | cps |
| Cobalt | 59-2 | 3780112 | 3817097 | 3909533 | 3835581 | 1.74 | cps |
| Copper | 63-2 | 28464765 | 27909425 | 27920701 | 28098297 | 1.13 | cps |
| Dysprosium | 156-1 | 440 | 467 | 487 | 464 | 5.04 | cps |
| Dysprosium | 156-2 | 113 | 77 | 127 | 106 | 24.53 | cps |
| Erbium | 164-1 | 437 | 433 | 413 | 428 | 2.95 | cps |
| Erbium | 164-2 | 147 | 167 | 177 | 163 | 9.35 | cps |
| Gadolinium | 160-1 | 377 | 400 | 443 | 407 | 8.32 | cps |
| Gadolinium | 160-2 | 173 | 177 | 150 | 167 | 8.72 | cps |
| Holmium | 165-1 | 19907348 | 19882995 | 20055802 | 19948715 | 0.47 | cps |
| Holmium | 165-2 | 7423167 | 7274415 | 7294512 | 7330698 | 1.10 | cps |
| Indium | 115-1 | 15075422 | 15025633 | 15462418 | 15187824 | 1.57 | cps |
| Indium | 115-2 | 1581563 | 1600029 | 1623284 | 1601625 | 1.31 | cps |
| Iron | 54-2 | 20147296 | 19843578 | 19955762 | 19982212 | 0.77 | cps |
| Iron | 56-2 | 374951541 | 367199208 | 366534088 | 369561612 | 1.27 | cps |
| Iron | 57-2 | 9555127 | 9316153 | 9236978 | 9369419 | 1.77 | cps |
| Krypton | 83-1 | 293 | 300 | 327 | 307 | 5.75 | cps |
| Lead | 206-1 | 32091449 | 33190189 | 32335410 | 32539016 | 1.77 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27833795 | 28496280 | 28072915 | 28134330 | 1.19 | cps |
| Lead | 208-1 | 126607836 | 131062139 | 129579769 | 129083248 | 1.76 | cps |
| Lithium | 6-1 | 8773920 | 8813411 | 8800202 | 8795844 | 0.23 | cps |
| Magnesium | 24-2 | 66417937 | 65911867 | 66947216 | 66425673 | 0.78 | cps |
| Manganese | 55-2 | 8430265 | 8221327 | 8186490 | 8279361 | 1.59 | cps |
| Molybdenum | 94-1 | 30728650 | 31012688 | 31221695 | 30987677 | 0.80 | cps |
| Molybdenum | 95-1 | 43982319 | 44410924 | 44623508 | 44338917 | 0.74 | cps |
| Molybdenum | 96-1 | 48049444 | 48953611 | 49425084 | 48809380 | 1.43 | cps |
| Molybdenum | 97-1 | 26679065 | 27492105 | 27655895 | 27275688 | 1.92 | cps |
| Molybdenum | 98-1 | 69836914 | 71746469 | 72085171 | 71222851 | 1.70 | cps |
| Neodymium | 150-1 | 810 | 787 | 803 | 800 | 1.50 | cps |
| Neodymium | 150-2 | 57 | 130 | 57 | 81 | 52.19 | cps |
| Nickel | 60-2 | 975389 | 970941 | 980311 | 975547 | 0.48 | cps |
| Phosphorus | 31-2 | 37525 | 37171 | 36914 | 37203 | 0.83 | cps |
| Potassium | 39-2 | 19353680 | 19338522 | 19592075 | 19428092 | 0.73 | cps |
| Rhodium | 103-1 | 13875961 | 13924240 | 14095701 | 13965301 | 0.83 | cps |
| Rhodium | 103-2 | 5578127 | 5727040 | 5725763 | 5676977 | 1.51 | cps |
| Scandium | 45-1 | 11399834 | 11465868 | 11452604 | 11439436 | 0.31 | cps |
| Scandium | 45-2 | 230475 | 229170 | 231538 | 230395 | 0.51 | cps |
| Selenium | 82-1 | 123850 | 126191 | 124920 | 124987 | 0.94 | cps |
| Selenium | 77-2 | 2514 | 2324 | 2354 | 2397 | 4.26 | cps |
| Selenium | 78-2 | 7862 | 7545 | 8006 | 7804 | 3.02 | cps |
| Silicon | 28-1 | 7934581 | 7994577 | 8152390 | 8027182 | 1.40 | cps |
| Silver | 107-1 | 10322022 | 10320102 | 10336717 | 10326280 | 0.09 | cps |
| Silver | 109-1 | 9637519 | 9723701 | 9842715 | 9734645 | 1.06 | cps |
| Sodium | 23-2 | 134129905 | 133112958 | 133029731 | 133424198 | 0.46 | cps |
| Strontium | 86-1 | 2860180 | 2880358 | 2881952 | 2874163 | 0.42 | cps |
| Strontium | 88-1 | 24391000 | 24722185 | 24887892 | 24667026 | 1.03 | cps |
| Sulfur | 34-1 | 1661319 | 1662187 | 1631635 | 1651714 | 1.05 | cps |
| Terbium | 159-1 | 20291500 | 20454764 | 20206186 | 20317483 | 0.62 | cps |
| Terbium | 159-2 | 7083453 | 7036573 | 6996043 | 7038690 | 0.62 | cps |
| Thallium | 203-1 | 7976792 | 8066918 | 7972922 | 8005544 | 0.66 | cps |
| Thallium | 205-1 | 18729730 | 19204949 | 19124372 | 19019684 | 1.34 | cps |
| Tin | 118-1 | 6825596 | 6862119 | 6929753 | 6872489 | 0.77 | cps |
| Titanium | 47-1 | 13726913 | 14108048 | 14169193 | 14001385 | 1.71 | cps |
| Uranium | 238-1 | 25977270 | 26566225 | 26737976 | 26427157 | 1.51 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:37:49 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1659087 | 1649655 | 1647611 | 1652118 | 0.37 | cps |
| Ytterbium | 172-1 | 487 | 457 | 467 | 470 | 3.25 | cps |
| Ytterbium | 172-2 | 263 | 203 | 263 | 243 | 14.24 | cps |
| Ytterbium | 176-1 | 40522 | 40596 | 41502 | 40873 | 1.33 | cps |
| Ytterbium | 176-2 | 14668 | 14972 | 14835 | 14825 | 1.03 | cps |
| Yttrium | 89-1 | 28144511 | 28039385 | 28230071 | 28137989 | 0.34 | cps |
| Yttrium | 89-2 | 2098740 | 2129270 | 2150638 | 2126216 | 1.23 | cps |
| Zinc | 66-2 | 3124970 | 3047765 | 3023617 | 3065451 | 1.73 | cps |
| Zirconium | 90-1 | 15378462 | 15552926 | 15632206 | 15521198 | 0.84 | cps |
| Zirconium | 91-1 | 3510028 | 3507249 | 3505504 | 3507594 | 0.07 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 207 | 190 | 193 | 197 | 4.48 | cps |
| Antimony | 121-1 | 2857 | 2377 | 2254 | 2496 | 12.77 | cps |
| Arsenic | 75-2 | 3 | 10 | 10 | 8 | 49.52 | cps |
| Barium | 135-1 | 570 | 427 | 410 | 469 | 18.76 | cps |
| Barium | 137-1 | 867 | 723 | 710 | 767 | 11.33 | cps |
| Beryllium | 9-1 | 1457 | 1285 | 1236 | 1326 | 8.77 | cps |
| Bismuth | 209-1 | 13281951 | 12973106 | 13212939 | 13155998 | 1.23 | cps |
| Bismuth | 209-2 | 5633515 | 5598113 | 5742499 | 5658042 | 1.33 | cps |
| Bromine | 81-1 | 51745 | 49042 | 45473 | 48753 | 6.45 | cps |
| Cadmium | 108-1 | 40 | 40 | 33 | 38 | 10.19 | cps |
| Cadmium | 106-1 | 8413 | 8870 | 8366 | 8549 | 3.26 | cps |
| Cadmium | 111-1 | 6044 | 6354 | 5966 | 6121 | 3.35 | cps |
| Calcium | 43-1 | 1373 | 1160 | 1083 | 1206 | 12.47 | cps |
| Calcium | 44-1 | 48893 | 44993 | 44388 | 46092 | 5.30 | cps |
| Carbon | 12-1 | 6931603 | 6750086 | 6731453 | 6804381 | 1.62 | cps |
| Carbon | 12-2 | 42020 | 41064 | 40419 | 41168 | 1.96 | cps |
| Chlorine | 35-1 | 1269731 | 1214427 | 1176810 | 1220323 | 3.83 | cps |
| Chlorine | 35-2 | 4327 | 4144 | 4224 | 4232 | 2.17 | cps |
| Chromium | 52-2 | 1050 | 1023 | 1157 | 1077 | 6.55 | cps |
| Cobalt | 59-2 | 250 | 203 | 187 | 213 | 15.39 | cps |
| Copper | 63-2 | 5601 | 5474 | 5381 | 5486 | 2.01 | cps |
| Dysprosium | 156-1 | 13 | 0 | 10 | 8 | 89.21 | cps |
| Dysprosium | 156-2 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Erbium | 164-1 | 83 | 113 | 97 | 98 | 15.38 | cps |
| Erbium | 164-2 | 47 | 47 | 47 | 47 | 0.00 | cps |
| Gadolinium | 160-1 | 137 | 127 | 150 | 138 | 8.50 | cps |
| Gadolinium | 160-2 | 30 | 20 | 20 | 23 | 24.74 | cps |
| Holmium | 165-1 | 21053191 | 20952545 | 20903635 | 20969790 | 0.36 | cps |
| Holmium | 165-2 | 7504774 | 7639654 | 7518924 | 7554451 | 0.98 | cps |
| Indium | 115-1 | 17142670 | 17172315 | 17225699 | 17180228 | 0.24 | cps |
| Indium | 115-2 | 1781169 | 1745818 | 1708219 | 1745068 | 2.09 | cps |
| Iron | 54-2 | 1223 | 1030 | 1150 | 1135 | 8.60 | cps |
| Iron | 56-2 | 17775 | 17364 | 17334 | 17491 | 1.41 | cps |
| Iron | 57-2 | 483 | 503 | 363 | 450 | 16.83 | cps |
| Krypton | 83-1 | 300 | 257 | 307 | 288 | 9.43 | cps |
| Lead | 206-1 | 6468 | 5561 | 5178 | 5736 | 11.55 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5318 | 4658 | 4441 | 4805 | 9.51 | cps |
| Lead | 208-1 | 24726 | 21991 | 20260 | 22326 | 10.09 | cps |
| Lithium | 6-1 | 9810327 | 9604632 | 9571485 | 9662148 | 1.34 | cps |
| Magnesium | 24-2 | 3260 | 3227 | 3104 | 3197 | 2.58 | cps |
| Manganese | 55-2 | 343 | 340 | 300 | 328 | 7.36 | cps |
| Molybdenum | 94-1 | 2730 | 2127 | 2027 | 2295 | 16.59 | cps |
| Molybdenum | 95-1 | 3220 | 2537 | 2277 | 2678 | 18.20 | cps |
| Molybdenum | 96-1 | 3487 | 2877 | 2527 | 2964 | 16.40 | cps |
| Molybdenum | 97-1 | 1843 | 1523 | 1400 | 1589 | 14.40 | cps |
| Molybdenum | 98-1 | 5038 | 4157 | 3350 | 4182 | 20.18 | cps |
| Neodymium | 150-1 | 17 | 13 | 23 | 18 | 28.64 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 487 | 520 | 590 | 532 | 9.91 | cps |
| Phosphorus | 31-2 | 80 | 83 | 87 | 83 | 4.00 | cps |
| Potassium | 39-2 | 20281 | 19620 | 19954 | 19952 | 1.66 | cps |
| Rhodium | 103-1 | 16400165 | 15949787 | 16140800 | 16163584 | 1.40 | cps |
| Rhodium | 103-2 | 6531504 | 6589666 | 6515472 | 6545547 | 0.60 | cps |
| Scandium | 45-1 | 12013755 | 12023312 | 12105893 | 12047653 | 0.42 | cps |
| Scandium | 45-2 | 237067 | 239375 | 236902 | 237782 | 0.58 | cps |
| Selenium | 82-1 | 37 | 40 | -10 | 22 | 125.80 | cps |
| Selenium | 77-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 0 | 3 | 27 | 10 | 145.32 | cps |
| Silicon | 28-1 | 870862 | 830159 | 808845 | 836622 | 3.77 | cps |
| Silver | 107-1 | 1850 | 1717 | 1413 | 1660 | 13.48 | cps |
| Silver | 109-1 | 1700 | 1423 | 1243 | 1456 | 15.80 | cps |
| Sodium | 23-2 | 90394 | 88710 | 88496 | 89200 | 1.17 | cps |
| Strontium | 86-1 | 857 | 687 | 703 | 749 | 12.51 | cps |
| Strontium | 88-1 | 3350 | 2797 | 2264 | 2804 | 19.38 | cps |
| Sulfur | 34-1 | 820580 | 819317 | 827874 | 822590 | 0.56 | cps |
| Terbium | 159-1 | 21581134 | 21467081 | 21008493 | 21352236 | 1.42 | cps |
| Terbium | 159-2 | 7488079 | 7307892 | 7521036 | 7439002 | 1.54 | cps |
| Thallium | 203-1 | 1190 | 1193 | 1107 | 1163 | 4.22 | cps |
| Thallium | 205-1 | 2917 | 2470 | 2290 | 2559 | 12.61 | cps |
| Tin | 118-1 | 2644 | 2640 | 2380 | 2555 | 5.91 | cps |
| Titanium | 47-1 | 1157 | 770 | 720 | 882 | 27.09 | cps |
| Uranium | 238-1 | 1513 | 1087 | 1050 | 1217 | 21.17 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:40:31 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 40 | 77 | 63 | 60 | 30.93 | cps |
| Ytterbium | 172-1 | 123 | 127 | 113 | 121 | 5.73 | cps |
| Ytterbium | 172-2 | 43 | 60 | 37 | 47 | 25.75 | cps |
| Ytterbium | 176-1 | 1950 | 1917 | 1934 | 1934 | 0.86 | cps |
| Ytterbium | 176-2 | 263 | 290 | 333 | 296 | 11.95 | cps |
| Yttrium | 89-1 | 29865627 | 29927303 | 29980621 | 29924517 | 0.19 | cps |
| Yttrium | 89-2 | 2270431 | 2253518 | 2191760 | 2238570 | 1.85 | cps |
| Zinc | 66-2 | 353 | 300 | 283 | 312 | 11.71 | cps |
| Zirconium | 90-1 | 2190 | 1910 | 1820 | 1973 | 9.78 | cps |
| Zirconium | 91-1 | 457 | 393 | 367 | 406 | 11.40 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 61027 | 60766 | 61415 | 61070 | 0.53 | cps |
| Antimony | 121-1 | 2124 | 2234 | 2184 | 2180 | 2.53 | cps |
| Arsenic | 75-2 | 1767 | 1730 | 1917 | 1805 | 5.48 | cps |
| Barium | 135-1 | 203769 | 207885 | 208260 | 206638 | 1.21 | cps |
| Barium | 137-1 | 358699 | 364058 | 362751 | 361836 | 0.77 | cps |
| Beryllium | 9-1 | 734 | 732 | 691 | 719 | 3.36 | cps |
| Bismuth | 209-1 | 11407524 | 11816926 | 11896199 | 11706883 | 2.24 | cps |
| Bismuth | 209-2 | 5395165 | 5232151 | 5224227 | 5283848 | 1.83 | cps |
| Bromine | 81-1 | 638034 | 760570 | 836333 | 744979 | 13.43 | cps |
| Cadmium | 108-1 | 373 | 373 | 353 | 367 | 3.15 | cps |
| Cadmium | 106-1 | 7952 | 8579 | 8379 | 8304 | 3.86 | cps |
| Cadmium | 111-1 | 5749 | 6174 | 6135 | 6019 | 3.91 | cps |
| Calcium | 43-1 | 6774953 | 6683098 | 6727098 | 6728383 | 0.68 | cps |
| Calcium | 44-1 | 108697085 | 109627968 | 109605102 | 109310052 | 0.49 | cps |
| Carbon | 12-1 | 36319601 | 39823144 | 43005168 | 39715971 | 8.42 | cps |
| Carbon | 12-2 | 287814 | 293552 | 294791 | 292052 | 1.27 | cps |
| Chlorine | 35-1 | 11971814 | 13340500 | 13861264 | 13057859 | 7.47 | cps |
| Chlorine | 35-2 | 60583 | 60576 | 61674 | 60944 | 1.04 | cps |
| Chromium | 52-2 | 2003 | 1960 | 2013 | 1992 | 1.42 | cps |
| Cobalt | 59-2 | 1373 | 1437 | 1323 | 1378 | 4.12 | cps |
| Copper | 63-2 | 7025 | 6912 | 7129 | 7022 | 1.54 | cps |
| Dysprosium | 156-1 | 57 | 23 | 20 | 33 | 60.84 | cps |
| Dysprosium | 156-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Erbium | 164-1 | 140 | 147 | 103 | 130 | 17.95 | cps |
| Erbium | 164-2 | 53 | 40 | 60 | 51 | 19.92 | cps |
| Gadolinium | 160-1 | 163 | 127 | 127 | 139 | 15.24 | cps |
| Gadolinium | 160-2 | 53 | 37 | 20 | 37 | 45.45 | cps |
| Holmium | 165-1 | 19235021 | 20244788 | 19884887 | 19788232 | 2.59 | cps |
| Holmium | 165-2 | 7571439 | 7513863 | 7492583 | 7525961 | 0.54 | cps |
| Indium | 115-1 | 15229495 | 15934343 | 15783806 | 15649214 | 2.37 | cps |
| Indium | 115-2 | 1728523 | 1684853 | 1697033 | 1703470 | 1.32 | cps |
| Iron | 54-2 | 2480 | 2560 | 2507 | 2516 | 1.62 | cps |
| Iron | 56-2 | 43081 | 43306 | 43239 | 43209 | 0.27 | cps |
| Iron | 57-2 | 1273 | 1310 | 1363 | 1316 | 3.44 | cps |
| Krypton | 83-1 | 287 | 307 | 327 | 307 | 6.52 | cps |
| Lead | 206-1 | 3117 | 2974 | 3007 | 3033 | 2.47 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2557 | 2774 | 2670 | 2667 | 4.06 | cps |
| Lead | 208-1 | 11919 | 12022 | 12129 | 12023 | 0.87 | cps |
| Lithium | 6-1 | 9273181 | 9511054 | 9424988 | 9403075 | 1.28 | cps |
| Magnesium | 24-2 | 2957 | 2990 | 3187 | 3045 | 4.08 | cps |
| Manganese | 55-2 | 1287 | 1153 | 1130 | 1190 | 7.10 | cps |
| Molybdenum | 94-1 | 429579 | 431679 | 437265 | 432841 | 0.92 | cps |
| Molybdenum | 95-1 | 733009 | 739370 | 756810 | 743063 | 1.66 | cps |
| Molybdenum | 96-1 | 792248 | 793647 | 811676 | 799191 | 1.36 | cps |
| Molybdenum | 97-1 | 460016 | 468690 | 466733 | 465146 | 0.98 | cps |
| Molybdenum | 98-1 | 1183586 | 1199358 | 1208061 | 1197002 | 1.04 | cps |
| Neodymium | 150-1 | 57 | 37 | 47 | 47 | 21.43 | cps |
| Neodymium | 150-2 | 7 | 0 | 7 | 4 | 86.60 | cps |
| Nickel | 60-2 | 957095 | 959596 | 960359 | 959016 | 0.18 | cps |
| Phosphorus | 31-2 | 2420 | 2464 | 2450 | 2445 | 0.91 | cps |
| Potassium | 39-2 | 31092781 | 31372660 | 31497500 | 31320981 | 0.66 | cps |
| Rhodium | 103-1 | 13895113 | 14729899 | 14592517 | 14405843 | 3.11 | cps |
| Rhodium | 103-2 | 6118578 | 6056898 | 6060924 | 6078800 | 0.57 | cps |
| Scandium | 45-1 | 11218646 | 11884523 | 11768695 | 11623955 | 3.06 | cps |
| Scandium | 45-2 | 240553 | 236864 | 234540 | 237319 | 1.28 | cps |
| Selenium | 82-1 | 537 | 563 | 540 | 547 | 2.66 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 10 | 7 | 17 | 11 | 45.82 | cps |
| Silicon | 28-1 | 39972646 | 40592579 | 40895569 | 40486932 | 1.16 | cps |
| Silver | 107-1 | 773 | 703 | 710 | 729 | 5.30 | cps |
| Silver | 109-1 | 527 | 537 | 523 | 529 | 1.31 | cps |
| Sodium | 23-2 | 66918876 | 66721107 | 66667052 | 66769012 | 0.20 | cps |
| Strontium | 86-1 | 12559414 | 12821699 | 12549864 | 12643659 | 1.22 | cps |
| Strontium | 88-1 | 108401195 | 108677822 | 109910645 | 108996554 | 0.74 | cps |
| Sulfur | 34-1 | 1822084 | 1808163 | 1768395 | 1799547 | 1.55 | cps |
| Terbium | 159-1 | 19642974 | 20651356 | 19981053 | 20091795 | 2.55 | cps |
| Terbium | 159-2 | 7397311 | 7371762 | 7211832 | 7326968 | 1.37 | cps |
| Thallium | 203-1 | 493 | 597 | 543 | 544 | 9.49 | cps |
| Thallium | 205-1 | 1320 | 1230 | 1160 | 1237 | 6.49 | cps |
| Tin | 118-1 | 8626 | 8679 | 9043 | 8783 | 2.58 | cps |
| Titanium | 47-1 | 2167 | 2314 | 2177 | 2219 | 3.69 | cps |
| Uranium | 238-1 | 417 | 390 | 440 | 416 | 6.02 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2966 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:44:21 | DataFile Name : | 047AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9647 | 9417 | 9410 | 9491 | 1.42 | cps |
| Ytterbium | 172-1 | 113 | 133 | 120 | 122 | 8.33 | cps |
| Ytterbium | 172-2 | 43 | 53 | 33 | 43 | 23.08 | cps |
| Ytterbium | 176-1 | 1810 | 2077 | 1913 | 1933 | 6.95 | cps |
| Ytterbium | 176-2 | 243 | 343 | 310 | 299 | 17.04 | cps |
| Yttrium | 89-1 | 27963299 | 29427411 | 28930001 | 28773570 | 2.59 | cps |
| Yttrium | 89-2 | 2255466 | 2191864 | 2182355 | 2209895 | 1.80 | cps |
| Zinc | 66-2 | 1133 | 1240 | 1313 | 1229 | 7.37 | cps |
| Zirconium | 90-1 | 2447 | 2517 | 2174 | 2379 | 7.63 | cps |
| Zirconium | 91-1 | 647 | 497 | 423 | 522 | 21.80 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 317 | 243 | 227 | 262 | 18.26 | cps |
| Antimony | 121-1 | 360 | 313 | 320 | 331 | 7.62 | cps |
| Arsenic | 75-2 | 17 | 20 | 27 | 21 | 24.12 | cps |
| Barium | 135-1 | 19978 | 19387 | 19437 | 19601 | 1.67 | cps |
| Barium | 137-1 | 34200 | 33963 | 34240 | 34134 | 0.44 | cps |
| Beryllium | 9-1 | 644 | 620 | 627 | 630 | 1.93 | cps |
| Bismuth | 209-1 | 14247924 | 13519359 | 13364702 | 13710661 | 3.44 | cps |
| Bismuth | 209-2 | 5907661 | 5891675 | 5942885 | 5914073 | 0.44 | cps |
| Bromine | 81-1 | 156441 | 147799 | 137974 | 147405 | 6.27 | cps |
| Cadmium | 108-1 | 20 | 40 | 17 | 26 | 49.38 | cps |
| Cadmium | 106-1 | 9277 | 9176 | 9350 | 9268 | 0.94 | cps |
| Cadmium | 111-1 | 6540 | 6456 | 6573 | 6523 | 0.93 | cps |
| Calcium | 43-1 | 10174750 | 9845097 | 9686110 | 9901986 | 2.52 | cps |
| Calcium | 44-1 | 163562664 | 157859154 | 156160994 | 159194271 | 2.44 | cps |
| Carbon | 12-1 | 9817247 | 9641164 | 9460803 | 9639738 | 1.85 | cps |
| Carbon | 12-2 | 59165 | 59239 | 58158 | 58854 | 1.03 | cps |
| Chlorine | 35-1 | 10872328 | 12101810 | 12693973 | 11889370 | 7.82 | cps |
| Chlorine | 35-2 | 55499 | 55566 | 55824 | 55630 | 0.31 | cps |
| Chromium | 52-2 | 1110 | 1190 | 1210 | 1170 | 4.52 | cps |
| Cobalt | 59-2 | 233 | 233 | 220 | 229 | 3.36 | cps |
| Copper | 63-2 | 5481 | 5478 | 5551 | 5503 | 0.75 | cps |
| Dysprosium | 156-1 | 47 | 47 | 33 | 42 | 18.24 | cps |
| Dysprosium | 156-2 | 20 | 10 | 23 | 18 | 39.03 | cps |
| Erbium | 164-1 | 133 | 133 | 147 | 138 | 5.59 | cps |
| Erbium | 164-2 | 37 | 47 | 37 | 40 | 14.43 | cps |
| Gadolinium | 160-1 | 150 | 167 | 160 | 159 | 5.28 | cps |
| Gadolinium | 160-2 | 63 | 53 | 33 | 50 | 30.55 | cps |
| Holmium | 165-1 | 23643965 | 23264118 | 22085090 | 22997724 | 3.53 | cps |
| Holmium | 165-2 | 8147512 | 8251932 | 8232039 | 8210495 | 0.68 | cps |
| Indium | 115-1 | 19039670 | 18151880 | 17902868 | 18364806 | 3.25 | cps |
| Indium | 115-2 | 1856266 | 1917585 | 1914102 | 1895985 | 1.82 | cps |
| Iron | 54-2 | 81537 | 81192 | 81524 | 81418 | 0.24 | cps |
| Iron | 56-2 | 1576356 | 1549462 | 1537699 | 1554506 | 1.27 | cps |
| Iron | 57-2 | 38619 | 38311 | 37783 | 38238 | 1.11 | cps |
| Krypton | 83-1 | 303 | 280 | 323 | 302 | 7.18 | cps |
| Lead | 206-1 | 5975 | 4934 | 4181 | 5030 | 17.91 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5321 | 4061 | 3330 | 4237 | 23.77 | cps |
| Lead | 208-1 | 24049 | 19283 | 16508 | 19946 | 19.12 | cps |
| Lithium | 6-1 | 10831679 | 10632963 | 10288409 | 10584351 | 2.60 | cps |
| Magnesium | 24-2 | 14053124 | 14315774 | 14204337 | 14191078 | 0.93 | cps |
| Manganese | 55-2 | 31448 | 30519 | 30429 | 30799 | 1.83 | cps |
| Molybdenum | 94-1 | 2124 | 1853 | 1957 | 1978 | 6.89 | cps |
| Molybdenum | 95-1 | 2534 | 2877 | 2590 | 2667 | 6.90 | cps |
| Molybdenum | 96-1 | 2934 | 2614 | 2650 | 2733 | 6.41 | cps |
| Molybdenum | 97-1 | 1787 | 1660 | 1543 | 1663 | 7.32 | cps |
| Molybdenum | 98-1 | 3907 | 3971 | 3957 | 3945 | 0.85 | cps |
| Neodymium | 150-1 | 37 | 50 | 33 | 40 | 22.05 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 933 | 937 | 953 | 941 | 1.14 | cps |
| Phosphorus | 31-2 | 97 | 90 | 113 | 100 | 12.02 | cps |
| Potassium | 39-2 | 299374 | 302245 | 297573 | 299731 | 0.79 | cps |
| Rhodium | 103-1 | 17565604 | 16912256 | 16630472 | 17036111 | 2.82 | cps |
| Rhodium | 103-2 | 6716001 | 6771450 | 6640109 | 6709187 | 0.98 | cps |
| Scandium | 45-1 | 14239758 | 13426180 | 13494389 | 13720109 | 3.29 | cps |
| Scandium | 45-2 | 261919 | 262073 | 262207 | 262066 | 0.05 | cps |
| Selenium | 82-1 | 60 | 153 | 83 | 99 | 49.12 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 13 | 23 | 7 | 14 | 58.06 | cps |
| Silicon | 28-1 | 44506639 | 43748421 | 43401798 | 43885619 | 1.29 | cps |
| Silver | 107-1 | 437 | 430 | 540 | 469 | 13.15 | cps |
| Silver | 109-1 | 283 | 257 | 280 | 273 | 5.32 | cps |
| Sodium | 23-2 | 36370034 | 36054495 | 36703782 | 36376104 | 0.89 | cps |
| Strontium | 86-1 | 30194310 | 29775178 | 29254149 | 29741212 | 1.58 | cps |
| Strontium | 88-1 | 258757363 | 255636523 | 252173250 | 255522378 | 1.29 | cps |
| Sulfur | 34-1 | 14995130 | 14364791 | 14307100 | 14555674 | 2.62 | cps |
| Terbium | 159-1 | 24229146 | 23133673 | 22630442 | 23331087 | 3.50 | cps |
| Terbium | 159-2 | 7940881 | 7974512 | 8117107 | 8010833 | 1.17 | cps |
| Thallium | 203-1 | 837 | 677 | 683 | 732 | 12.36 | cps |
| Thallium | 205-1 | 1900 | 1677 | 1450 | 1676 | 13.43 | cps |
| Tin | 118-1 | 3374 | 3300 | 3500 | 3392 | 2.98 | cps |
| Titanium | 47-1 | 1037 | 1013 | 1033 | 1028 | 1.23 | cps |
| Uranium | 238-1 | 4497 | 4371 | 4297 | 4389 | 2.31 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2958 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:47:32 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 47 | 40 | 53 | 47 | 14.28 | cps |
| Ytterbium | 172-1 | 153 | 137 | 150 | 147 | 6.01 | cps |
| Ytterbium | 172-2 | 53 | 63 | 23 | 47 | 44.61 | cps |
| Ytterbium | 176-1 | 2227 | 2124 | 2144 | 2165 | 2.53 | cps |
| Ytterbium | 176-2 | 333 | 407 | 337 | 359 | 11.54 | cps |
| Yttrium | 89-1 | 34026183 | 33264175 | 32369061 | 33219806 | 2.50 | cps |
| Yttrium | 89-2 | 2426840 | 2411442 | 2474965 | 2437749 | 1.36 | cps |
| Zinc | 66-2 | 890 | 737 | 803 | 810 | 9.49 | cps |
| Zirconium | 90-1 | 1343 | 1327 | 1237 | 1302 | 4.41 | cps |
| Zirconium | 91-1 | 303 | 247 | 233 | 261 | 14.23 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1720 | 1510 | 1563 | 1598 | 6.83 | cps |
| Antimony | 121-1 | 3924 | 4337 | 4251 | 4171 | 5.23 | cps |
| Arsenic | 75-2 | 687 | 713 | 780 | 727 | 6.62 | cps |
| Barium | 135-1 | 126548 | 127664 | 128812 | 127675 | 0.89 | cps |
| Barium | 137-1 | 222634 | 227339 | 225633 | 225202 | 1.06 | cps |
| Beryllium | 9-1 | 622 | 641 | 624 | 629 | 1.67 | cps |
| Bismuth | 209-1 | 12464888 | 12158839 | 12178892 | 12267540 | 1.40 | cps |
| Bismuth | 209-2 | 5308474 | 5329723 | 5306030 | 5314742 | 0.25 | cps |
| Bromine | 81-1 | 106436 | 107330 | 108049 | 107271 | 0.75 | cps |
| Cadmium | 108-1 | 183 | 117 | 187 | 162 | 24.34 | cps |
| Cadmium | 106-1 | 8616 | 8256 | 8563 | 8478 | 2.29 | cps |
| Cadmium | 111-1 | 6300 | 6037 | 6240 | 6192 | 2.22 | cps |
| Calcium | 43-1 | 2127407 | 2191954 | 2203241 | 2174200 | 1.88 | cps |
| Calcium | 44-1 | 34744269 | 35051964 | 35158254 | 34984829 | 0.61 | cps |
| Carbon | 12-1 | 12663353 | 13269008 | 13622958 | 13185106 | 3.68 | cps |
| Carbon | 12-2 | 87250 | 88320 | 88307 | 87959 | 0.70 | cps |
| Chlorine | 35-1 | 2940902 | 2807259 | 2708092 | 2818751 | 4.14 | cps |
| Chlorine | 35-2 | 10204 | 10167 | 9843 | 10071 | 1.97 | cps |
| Chromium | 52-2 | 8302 | 8302 | 8649 | 8418 | 2.38 | cps |
| Cobalt | 59-2 | 780 | 840 | 763 | 794 | 5.08 | cps |
| Copper | 63-2 | 22768 | 22982 | 23156 | 22969 | 0.84 | cps |
| Dysprosium | 156-1 | 63 | 67 | 100 | 77 | 26.45 | cps |
| Dysprosium | 156-2 | 10 | 30 | 7 | 16 | 81.11 | cps |
| Erbium | 164-1 | 147 | 180 | 117 | 148 | 21.44 | cps |
| Erbium | 164-2 | 43 | 43 | 60 | 49 | 19.69 | cps |
| Gadolinium | 160-1 | 170 | 170 | 187 | 176 | 5.48 | cps |
| Gadolinium | 160-2 | 50 | 60 | 43 | 51 | 16.42 | cps |
| Holmium | 165-1 | 20499710 | 20346904 | 20050071 | 20298895 | 1.13 | cps |
| Holmium | 165-2 | 7302917 | 7609398 | 7337643 | 7416652 | 2.26 | cps |
| Indium | 115-1 | 16819381 | 16259997 | 16171250 | 16416876 | 2.14 | cps |
| Indium | 115-2 | 1679816 | 1680966 | 1686104 | 1682295 | 0.20 | cps |
| Iron | 54-2 | 32230 | 32858 | 31872 | 32320 | 1.54 | cps |
| Iron | 56-2 | 580536 | 588712 | 584114 | 584454 | 0.70 | cps |
| Iron | 57-2 | 15138 | 14581 | 14738 | 14819 | 1.94 | cps |
| Krypton | 83-1 | 247 | 267 | 297 | 270 | 9.32 | cps |
| Lead | 206-1 | 9991 | 10234 | 10454 | 10226 | 2.27 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 8480 | 8523 | 8546 | 8516 | 0.40 | cps |
| Lead | 208-1 | 39567 | 39717 | 40278 | 39854 | 0.94 | cps |
| Lithium | 6-1 | 9539068 | 9305045 | 9522739 | 9455617 | 1.38 | cps |
| Magnesium | 24-2 | 10832799 | 11055674 | 10618285 | 10835586 | 2.02 | cps |
| Manganese | 55-2 | 87667 | 87570 | 88646 | 87961 | 0.68 | cps |
| Molybdenum | 94-1 | 144606 | 147317 | 146896 | 146273 | 1.00 | cps |
| Molybdenum | 95-1 | 242838 | 251717 | 250062 | 248206 | 1.90 | cps |
| Molybdenum | 96-1 | 265804 | 267021 | 265773 | 266199 | 0.27 | cps |
| Molybdenum | 97-1 | 155315 | 156326 | 155331 | 155657 | 0.37 | cps |
| Molybdenum | 98-1 | 393140 | 403895 | 399638 | 398891 | 1.36 | cps |
| Neodymium | 150-1 | 93 | 93 | 90 | 92 | 2.08 | cps |
| Neodymium | 150-2 | 10 | 23 | 10 | 14 | 53.28 | cps |
| Nickel | 60-2 | 8940 | 9066 | 9230 | 9079 | 1.60 | cps |
| Phosphorus | 31-2 | 340 | 310 | 347 | 332 | 5.88 | cps |
| Potassium | 39-2 | 9509301 | 9321582 | 9351121 | 9394001 | 1.07 | cps |
| Rhodium | 103-1 | 15356135 | 15113715 | 15219449 | 15229766 | 0.80 | cps |
| Rhodium | 103-2 | 6081665 | 6100568 | 6202871 | 6128368 | 1.06 | cps |
| Scandium | 45-1 | 12145639 | 12014232 | 11914950 | 12024940 | 0.96 | cps |
| Scandium | 45-2 | 230371 | 234276 | 233243 | 232630 | 0.87 | cps |
| Selenium | 82-1 | 297 | 357 | 340 | 331 | 9.35 | cps |
| Selenium | 77-2 | 0 | 7 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 23 | 20 | 17 | 20 | 16.65 | cps |
| Silicon | 28-1 | 119811502 | 119483672 | 120901358 | 120065510 | 0.62 | cps |
| Silver | 107-1 | 893 | 943 | 867 | 901 | 4.32 | cps |
| Silver | 109-1 | 770 | 717 | 737 | 741 | 3.64 | cps |
| Sodium | 23-2 | 22408182 | 22233009 | 21832504 | 22157898 | 1.33 | cps |
| Strontium | 86-1 | 1957150 | 2003556 | 1974901 | 1978536 | 1.18 | cps |
| Strontium | 88-1 | 16797092 | 17071570 | 17093114 | 16987259 | 0.97 | cps |
| Sulfur | 34-1 | 6362777 | 6316514 | 6318842 | 6332711 | 0.41 | cps |
| Terbium | 159-1 | 20943670 | 20563069 | 20454329 | 20653689 | 1.24 | cps |
| Terbium | 159-2 | 7011809 | 7209003 | 7201485 | 7140766 | 1.56 | cps |
| Thallium | 203-1 | 490 | 450 | 477 | 472 | 4.31 | cps |
| Thallium | 205-1 | 1070 | 977 | 1053 | 1033 | 4.82 | cps |
| Tin | 118-1 | 240715 | 241636 | 247382 | 243244 | 1.49 | cps |
| Titanium | 47-1 | 3414 | 3397 | 3324 | 3378 | 1.42 | cps |
| Uranium | 238-1 | 83496 | 86445 | 86321 | 85421 | 1.95 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2968 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:50:47 | DataFile Name : | 049AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3744 | 3704 | 3744 | 3731 | 0.62 | cps |
| Ytterbium | 172-1 | 117 | 100 | 163 | 127 | 25.92 | cps |
| Ytterbium | 172-2 | 57 | 53 | 67 | 59 | 11.79 | cps |
| Ytterbium | 176-1 | 1850 | 2027 | 2017 | 1965 | 5.05 | cps |
| Ytterbium | 176-2 | 270 | 307 | 367 | 314 | 15.52 | cps |
| Yttrium | 89-1 | 29607475 | 29577919 | 28985698 | 29390364 | 1.19 | cps |
| Yttrium | 89-2 | 2139141 | 2173882 | 2181772 | 2164932 | 1.05 | cps |
| Zinc | 66-2 | 199307 | 200906 | 198468 | 199561 | 0.62 | cps |
| Zirconium | 90-1 | 2230 | 2334 | 2104 | 2222 | 5.18 | cps |
| Zirconium | 91-1 | 463 | 443 | 473 | 460 | 3.32 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1030 | 1207 | 1087 | 1108 | 8.14 | cps |
| Antimony | 121-1 | 1680 | 1617 | 1427 | 1575 | 8.37 | cps |
| Arsenic | 75-2 | 773 | 720 | 760 | 751 | 3.70 | cps |
| Barium | 135-1 | 384291 | 387741 | 386832 | 386288 | 0.46 | cps |
| Barium | 137-1 | 668601 | 677468 | 676265 | 674111 | 0.71 | cps |
| Beryllium | 9-1 | 560 | 565 | 497 | 541 | 6.95 | cps |
| Bismuth | 209-1 | 11837994 | 11932493 | 12358214 | 12042900 | 2.30 | cps |
| Bismuth | 209-2 | 5322587 | 5298303 | 5303861 | 5308250 | 0.24 | cps |
| Bromine | 81-1 | 63667 | 65412 | 66272 | 65117 | 2.04 | cps |
| Cadmium | 108-1 | 50 | 63 | 63 | 59 | 13.07 | cps |
| Cadmium | 106-1 | 8102 | 8509 | 8309 | 8307 | 2.45 | cps |
| Cadmium | 111-1 | 5740 | 5996 | 5835 | 5857 | 2.20 | cps |
| Calcium | 43-1 | 9619886 | 9676667 | 9722218 | 9672924 | 0.53 | cps |
| Calcium | 44-1 | 152413664 | 153230888 | 154332611 | 153325721 | 0.63 | cps |
| Carbon | 12-1 | 10225048 | 10828423 | 11121013 | 10724828 | 4.26 | cps |
| Carbon | 12-2 | 72581 | 73432 | 73901 | 73305 | 0.91 | cps |
| Chlorine | 35-1 | 2167675 | 2233643 | 2242890 | 2214736 | 1.85 | cps |
| Chlorine | 35-2 | 9330 | 9523 | 8926 | 9260 | 3.29 | cps |
| Chromium | 52-2 | 5608 | 5745 | 5868 | 5740 | 2.27 | cps |
| Cobalt | 59-2 | 1513 | 1570 | 1423 | 1502 | 4.92 | cps |
| Copper | 63-2 | 8039 | 8199 | 8466 | 8235 | 2.62 | cps |
| Dysprosium | 156-1 | 93 | 110 | 123 | 109 | 13.81 | cps |
| Dysprosium | 156-2 | 37 | 20 | 40 | 32 | 33.25 | cps |
| Erbium | 164-1 | 147 | 213 | 170 | 177 | 19.15 | cps |
| Erbium | 164-2 | 37 | 57 | 67 | 53 | 28.64 | cps |
| Gadolinium | 160-1 | 173 | 187 | 220 | 193 | 12.43 | cps |
| Gadolinium | 160-2 | 70 | 73 | 37 | 60 | 33.79 | cps |
| Holmium | 165-1 | 19628790 | 19874070 | 20445273 | 19982711 | 2.10 | cps |
| Holmium | 165-2 | 7570072 | 7393816 | 7401518 | 7455135 | 1.34 | cps |
| Indium | 115-1 | 15777507 | 15958403 | 16460524 | 16065478 | 2.20 | cps |
| Indium | 115-2 | 1683195 | 1684763 | 1723431 | 1697130 | 1.34 | cps |
| Iron | 54-2 | 156433 | 156321 | 155509 | 156088 | 0.32 | cps |
| Iron | 56-2 | 3005074 | 2980475 | 2941090 | 2975546 | 1.08 | cps |
| Iron | 57-2 | 72443 | 71424 | 72366 | 72078 | 0.79 | cps |
| Krypton | 83-1 | 260 | 300 | 237 | 266 | 12.06 | cps |
| Lead | 206-1 | 4381 | 4291 | 4234 | 4302 | 1.72 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3524 | 3591 | 3464 | 3526 | 1.80 | cps |
| Lead | 208-1 | 16784 | 16484 | 16541 | 16603 | 0.96 | cps |
| Lithium | 6-1 | 8996945 | 9013222 | 9284387 | 9098185 | 1.77 | cps |
| Magnesium | 24-2 | 11104064 | 10790577 | 10664624 | 10853088 | 2.09 | cps |
| Manganese | 55-2 | 116806 | 115509 | 113053 | 115123 | 1.66 | cps |
| Molybdenum | 94-1 | 39493 | 40860 | 40673 | 40342 | 1.84 | cps |
| Molybdenum | 95-1 | 66297 | 67074 | 66997 | 66789 | 0.64 | cps |
| Molybdenum | 96-1 | 70920 | 72183 | 72233 | 71779 | 1.04 | cps |
| Molybdenum | 97-1 | 41502 | 41876 | 41438 | 41605 | 0.57 | cps |
| Molybdenum | 98-1 | 106874 | 107836 | 107748 | 107486 | 0.49 | cps |
| Neodymium | 150-1 | 103 | 147 | 137 | 129 | 17.61 | cps |
| Neodymium | 150-2 | 3 | 27 | 7 | 12 | 103.26 | cps |
| Nickel | 60-2 | 5448 | 5308 | 5311 | 5355 | 1.49 | cps |
| Phosphorus | 31-2 | 500 | 403 | 370 | 424 | 15.91 | cps |
| Potassium | 39-2 | 757512 | 747996 | 748610 | 751373 | 0.71 | cps |
| Rhodium | 103-1 | 14707166 | 14783826 | 14878750 | 14789914 | 0.58 | cps |
| Rhodium | 103-2 | 6081997 | 6043316 | 6062604 | 6062639 | 0.32 | cps |
| Scandium | 45-1 | 11513880 | 11644178 | 11923455 | 11693838 | 1.79 | cps |
| Scandium | 45-2 | 234467 | 229915 | 231122 | 231834 | 1.02 | cps |
| Selenium | 82-1 | 63 | 73 | 127 | 88 | 38.79 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Silicon | 28-1 | 120638128 | 124920551 | 122512578 | 122690419 | 1.75 | cps |
| Silver | 107-1 | 547 | 573 | 487 | 536 | 8.29 | cps |
| Silver | 109-1 | 230 | 283 | 240 | 251 | 11.29 | cps |
| Sodium | 23-2 | 6172061 | 6109658 | 6053676 | 6111798 | 0.97 | cps |
| Strontium | 86-1 | 90952865 | 93884002 | 90928349 | 91921739 | 1.85 | cps |
| Strontium | 88-1 | 789370202 | 811574095 | 786439535 | 795794610 | 1.73 | cps |
| Sulfur | 34-1 | 10092881 | 10116586 | 10149765 | 10119744 | 0.28 | cps |
| Terbium | 159-1 | 20493313 | 20109776 | 20774403 | 20459164 | 1.63 | cps |
| Terbium | 159-2 | 7236796 | 7057595 | 7206321 | 7166904 | 1.34 | cps |
| Thallium | 203-1 | 310 | 393 | 380 | 361 | 12.40 | cps |
| Thallium | 205-1 | 793 | 810 | 780 | 794 | 1.89 | cps |
| Tin | 118-1 | 7719 | 7539 | 7502 | 7587 | 1.53 | cps |
| Titanium | 47-1 | 3457 | 3621 | 3444 | 3507 | 2.81 | cps |
| Uranium | 238-1 | 107661 | 109807 | 110496 | 109321 | 1.35 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2974 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:53:58 | DataFile Name : | 050AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3574 | 3684 | 3497 | 3585 | 2.62 | cps |
| Ytterbium | 172-1 | 147 | 153 | 137 | 146 | 5.76 | cps |
| Ytterbium | 172-2 | 87 | 70 | 67 | 74 | 14.39 | cps |
| Ytterbium | 176-1 | 1857 | 1787 | 1863 | 1836 | 2.31 | cps |
| Ytterbium | 176-2 | 290 | 387 | 313 | 330 | 15.29 | cps |
| Yttrium | 89-1 | 28455839 | 28310330 | 29125641 | 28630603 | 1.52 | cps |
| Yttrium | 89-2 | 2149312 | 2167390 | 2160515 | 2159072 | 0.42 | cps |
| Zinc | 66-2 | 860 | 847 | 937 | 881 | 5.51 | cps |
| Zirconium | 90-1 | 4411 | 4601 | 5313 | 4775 | 9.96 | cps |
| Zirconium | 91-1 | 980 | 977 | 967 | 974 | 0.71 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1163 | 1000 | 1130 | 1098 | 7.86 | cps |
| Antimony | 121-1 | 637 | 620 | 603 | 620 | 2.69 | cps |
| Arsenic | 75-2 | 90 | 120 | 110 | 107 | 14.32 | cps |
| Barium | 135-1 | 145048 | 148399 | 151861 | 148436 | 2.30 | cps |
| Barium | 137-1 | 254307 | 261639 | 262606 | 259517 | 1.75 | cps |
| Beryllium | 9-1 | 522 | 525 | 529 | 525 | 0.60 | cps |
| Bismuth | 209-1 | 11396755 | 11670204 | 11526961 | 11531307 | 1.19 | cps |
| Bismuth | 209-2 | 5189082 | 5304788 | 5065018 | 5186296 | 2.31 | cps |
| Bromine | 81-1 | 134804 | 159557 | 175514 | 156625 | 13.10 | cps |
| Cadmium | 108-1 | 40 | 33 | 17 | 30 | 40.05 | cps |
| Cadmium | 106-1 | 7669 | 8119 | 8189 | 7992 | 3.53 | cps |
| Cadmium | 111-1 | 5377 | 5690 | 5747 | 5605 | 3.56 | cps |
| Calcium | 43-1 | 25403345 | 26200322 | 26223288 | 25942318 | 1.80 | cps |
| Calcium | 44-1 | 411012221 | 422445527 | 428646327 | 420701358 | 2.13 | cps |
| Carbon | 12-1 | 8827108 | 9329099 | 9879564 | 9345257 | 5.63 | cps |
| Carbon | 12-2 | 67387 | 67527 | 66489 | 67135 | 0.84 | cps |
| Chlorine | 35-1 | 4658847 | 5218398 | 5342493 | 5073246 | 7.18 | cps |
| Chlorine | 35-2 | 23619 | 23569 | 23462 | 23550 | 0.34 | cps |
| Chromium | 52-2 | 2024 | 2040 | 2147 | 2070 | 3.23 | cps |
| Cobalt | 59-2 | 1073 | 983 | 1060 | 1039 | 4.68 | cps |
| Copper | 63-2 | 4131 | 4391 | 4611 | 4377 | 5.49 | cps |
| Dysprosium | 156-1 | 167 | 203 | 157 | 176 | 14.00 | cps |
| Dysprosium | 156-2 | 97 | 43 | 30 | 57 | 62.26 | cps |
| Erbium | 164-1 | 290 | 310 | 317 | 306 | 4.54 | cps |
| Erbium | 164-2 | 97 | 120 | 103 | 107 | 11.27 | cps |
| Gadolinium | 160-1 | 277 | 287 | 277 | 280 | 2.06 | cps |
| Gadolinium | 160-2 | 117 | 103 | 87 | 102 | 14.70 | cps |
| Holmium | 165-1 | 19651399 | 19575547 | 19698600 | 19641848 | 0.32 | cps |
| Holmium | 165-2 | 7374863 | 7637844 | 7331363 | 7448024 | 2.23 | cps |
| Indium | 115-1 | 15635010 | 15660180 | 15791779 | 15695656 | 0.54 | cps |
| Indium | 115-2 | 1684676 | 1729614 | 1664660 | 1692983 | 1.96 | cps |
| Iron | 54-2 | 201344 | 200328 | 198145 | 199939 | 0.82 | cps |
| Iron | 56-2 | 3900688 | 3811436 | 3852318 | 3854814 | 1.16 | cps |
| Iron | 57-2 | 95594 | 91279 | 93199 | 93357 | 2.32 | cps |
| Krypton | 83-1 | 257 | 277 | 367 | 300 | 19.53 | cps |
| Lead | 206-1 | 2664 | 2894 | 2920 | 2826 | 4.99 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2297 | 2594 | 2664 | 2518 | 7.73 | cps |
| Lead | 208-1 | 10849 | 11509 | 11665 | 11341 | 3.82 | cps |
| Lithium | 6-1 | 9132831 | 8942076 | 9232981 | 9102629 | 1.62 | cps |
| Magnesium | 24-2 | 33440698 | 32028000 | 31928341 | 32465680 | 2.61 | cps |
| Manganese | 55-2 | 280320 | 274827 | 277318 | 277488 | 0.99 | cps |
| Molybdenum | 94-1 | 3921 | 3904 | 3797 | 3874 | 1.73 | cps |
| Molybdenum | 95-1 | 3407 | 3307 | 3320 | 3345 | 1.62 | cps |
| Molybdenum | 96-1 | 3691 | 3751 | 3724 | 3722 | 0.81 | cps |
| Molybdenum | 97-1 | 1960 | 1923 | 1940 | 1941 | 0.95 | cps |
| Molybdenum | 98-1 | 5294 | 5078 | 5111 | 5161 | 2.26 | cps |
| Neodymium | 150-1 | 250 | 200 | 283 | 244 | 17.16 | cps |
| Neodymium | 150-2 | 97 | 83 | 70 | 83 | 16.00 | cps |
| Nickel | 60-2 | 1127 | 1077 | 1063 | 1089 | 3.07 | cps |
| Phosphorus | 31-2 | 223 | 177 | 237 | 212 | 14.85 | cps |
| Potassium | 39-2 | 512980 | 506997 | 502798 | 507591 | 1.01 | cps |
| Rhodium | 103-1 | 14294883 | 14564137 | 14499244 | 14452755 | 0.97 | cps |
| Rhodium | 103-2 | 5960388 | 6202416 | 6029436 | 6064080 | 2.06 | cps |
| Scandium | 45-1 | 11528799 | 11790617 | 11581556 | 11633657 | 1.19 | cps |
| Scandium | 45-2 | 233635 | 243249 | 232532 | 236472 | 2.49 | cps |
| Selenium | 82-1 | 150 | 173 | 17 | 113 | 74.59 | cps |
| Selenium | 77-2 | 0 | 7 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 17 | 7 | 17 | 13 | 43.29 | cps |
| Silicon | 28-1 | 83092324 | 84808097 | 85220169 | 84373530 | 1.34 | cps |
| Silver | 107-1 | 377 | 480 | 493 | 450 | 14.19 | cps |
| Silver | 109-1 | 153 | 227 | 280 | 220 | 28.91 | cps |
| Sodium | 23-2 | 12878148 | 12870109 | 12520446 | 12756234 | 1.60 | cps |
| Strontium | 86-1 | 65402017 | 67237189 | 68345851 | 66995019 | 2.22 | cps |
| Strontium | 88-1 | 567289978 | 575133751 | 591919898 | 578114542 | 2.18 | cps |
| Sulfur | 34-1 | 36774167 | 37687180 | 37762648 | 37407998 | 1.47 | cps |
| Terbium | 159-1 | 20331699 | 20350702 | 20901657 | 20528019 | 1.58 | cps |
| Terbium | 159-2 | 7012904 | 7384847 | 6961224 | 7119659 | 3.25 | cps |
| Thallium | 203-1 | 347 | 333 | 317 | 332 | 4.53 | cps |
| Thallium | 205-1 | 853 | 800 | 923 | 859 | 7.20 | cps |
| Tin | 118-1 | 8546 | 8690 | 8810 | 8682 | 1.52 | cps |
| Titanium | 47-1 | 2307 | 2377 | 2770 | 2485 | 10.05 | cps |
| Uranium | 238-1 | 7779 | 8326 | 8253 | 8119 | 3.66 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2977 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 14:57:15 | DataFile Name : | 051AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 417 | 447 | 377 | 413 | 8.50 | cps |
| Ytterbium | 172-1 | 210 | 203 | 167 | 193 | 12.07 | cps |
| Ytterbium | 172-2 | 113 | 87 | 83 | 94 | 17.41 | cps |
| Ytterbium | 176-1 | 1823 | 2014 | 2090 | 1976 | 6.95 | cps |
| Ytterbium | 176-2 | 343 | 410 | 297 | 350 | 16.27 | cps |
| Yttrium | 89-1 | 28644748 | 28497282 | 29155756 | 28765929 | 1.20 | cps |
| Yttrium | 89-2 | 2148237 | 2226884 | 2165476 | 2180199 | 1.90 | cps |
| Zinc | 66-2 | 1620 | 1627 | 1597 | 1615 | 0.98 | cps |
| Zirconium | 90-1 | 5278 | 5321 | 5434 | 5344 | 1.51 | cps |
| Zirconium | 91-1 | 1117 | 1260 | 1247 | 1208 | 6.56 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4908 | 4981 | 5204 | 5031 | 3.07 | cps |
| Antimony | 121-1 | 10384 | 10331 | 10097 | 10271 | 1.49 | cps |
| Arsenic | 75-2 | 620 | 727 | 673 | 673 | 7.92 | cps |
| Barium | 135-1 | 132686 | 135662 | 137564 | 135304 | 1.82 | cps |
| Barium | 137-1 | 232750 | 237661 | 236150 | 235521 | 1.07 | cps |
| Beryllium | 9-1 | 545 | 590 | 606 | 580 | 5.47 | cps |
| Bismuth | 209-1 | 12371973 | 11314747 | 12672686 | 12119802 | 5.88 | cps |
| Bismuth | 209-2 | 5920966 | 5641261 | 5522697 | 5694975 | 3.59 | cps |
| Bromine | 81-1 | 149353 | 158811 | 165707 | 157957 | 5.20 | cps |
| Cadmium | 108-1 | 180 | 210 | 210 | 200 | 8.66 | cps |
| Cadmium | 106-1 | 8896 | 7966 | 9006 | 8623 | 6.63 | cps |
| Cadmium | 111-1 | 6601 | 6006 | 6687 | 6432 | 5.77 | cps |
| Calcium | 43-1 | 3646198 | 3616138 | 3669023 | 3643786 | 0.73 | cps |
| Calcium | 44-1 | 58612741 | 59753161 | 59175182 | 59180361 | 0.96 | cps |
| Carbon | 12-1 | 12954994 | 14054050 | 14205610 | 13738218 | 4.97 | cps |
| Carbon | 12-2 | 95202 | 96427 | 97390 | 96340 | 1.14 | cps |
| Chlorine | 35-1 | 2525505 | 2636980 | 2649522 | 2604002 | 2.62 | cps |
| Chlorine | 35-2 | 10751 | 10898 | 10968 | 10872 | 1.02 | cps |
| Chromium | 52-2 | 3664 | 3610 | 3824 | 3699 | 3.00 | cps |
| Cobalt | 59-2 | 14571 | 14708 | 14641 | 14640 | 0.47 | cps |
| Copper | 63-2 | 39702 | 39986 | 39769 | 39819 | 0.37 | cps |
| Dysprosium | 156-1 | 683 | 817 | 783 | 761 | 9.12 | cps |
| Dysprosium | 156-2 | 233 | 247 | 233 | 238 | 3.24 | cps |
| Erbium | 164-1 | 550 | 610 | 600 | 587 | 5.48 | cps |
| Erbium | 164-2 | 237 | 200 | 180 | 206 | 13.98 | cps |
| Gadolinium | 160-1 | 800 | 777 | 713 | 763 | 5.88 | cps |
| Gadolinium | 160-2 | 253 | 293 | 320 | 289 | 11.62 | cps |
| Holmium | 165-1 | 20391699 | 19208611 | 20934362 | 20178224 | 4.37 | cps |
| Holmium | 165-2 | 8364739 | 7884089 | 7798565 | 8015798 | 3.81 | cps |
| Indium | 115-1 | 16316454 | 15355876 | 17299796 | 16324042 | 5.95 | cps |
| Indium | 115-2 | 1946448 | 1818610 | 1791229 | 1852096 | 4.47 | cps |
| Iron | 54-2 | 127620 | 127139 | 128202 | 127654 | 0.42 | cps |
| Iron | 56-2 | 2499608 | 2444769 | 2447541 | 2463973 | 1.25 | cps |
| Iron | 57-2 | 58918 | 58627 | 59319 | 58955 | 0.59 | cps |
| Krypton | 83-1 | 280 | 293 | 283 | 286 | 2.43 | cps |
| Lead | 206-1 | 26220 | 26895 | 26544 | 26553 | 1.27 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 21461 | 22045 | 22243 | 21916 | 1.85 | cps |
| Lead | 208-1 | 100699 | 102490 | 102745 | 101978 | 1.09 | cps |
| Lithium | 6-1 | 9643298 | 9183631 | 9809033 | 9545321 | 3.39 | cps |
| Magnesium | 24-2 | 12927626 | 12776464 | 13133092 | 12945727 | 1.38 | cps |
| Manganese | 55-2 | 165407 | 164108 | 166883 | 165466 | 0.84 | cps |
| Molybdenum | 94-1 | 219933 | 222837 | 224781 | 222517 | 1.10 | cps |
| Molybdenum | 95-1 | 377521 | 380606 | 384651 | 380926 | 0.94 | cps |
| Molybdenum | 96-1 | 406149 | 414415 | 411170 | 410578 | 1.01 | cps |
| Molybdenum | 97-1 | 232699 | 241342 | 239178 | 237740 | 1.89 | cps |
| Molybdenum | 98-1 | 601017 | 613827 | 617803 | 610883 | 1.44 | cps |
| Neodymium | 150-1 | 1000 | 1153 | 1000 | 1051 | 8.42 | cps |
| Neodymium | 150-2 | 283 | 233 | 230 | 249 | 12.00 | cps |
| Nickel | 60-2 | 35842 | 34539 | 34833 | 35071 | 1.95 | cps |
| Phosphorus | 31-2 | 297 | 277 | 267 | 280 | 5.46 | cps |
| Potassium | 39-2 | 5729468 | 5842563 | 5915630 | 5829220 | 1.61 | cps |
| Rhodium | 103-1 | 15290026 | 14359481 | 15717829 | 15122445 | 4.59 | cps |
| Rhodium | 103-2 | 6981239 | 6508611 | 6315922 | 6601924 | 5.19 | cps |
| Scandium | 45-1 | 12380019 | 11480941 | 12514766 | 12125242 | 4.64 | cps |
| Scandium | 45-2 | 270688 | 251894 | 248730 | 257104 | 4.62 | cps |
| Selenium | 82-1 | 280 | 240 | 427 | 316 | 31.15 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 27 | 13 | 23 | 21 | 32.88 | cps |
| Silicon | 28-1 | 45240783 | 45710873 | 45385298 | 45445651 | 0.53 | cps |
| Silver | 107-1 | 2394 | 2280 | 2317 | 2330 | 2.48 | cps |
| Silver | 109-1 | 2067 | 2147 | 2014 | 2076 | 3.23 | cps |
| Sodium | 23-2 | 17758992 | 17655043 | 17738412 | 17717482 | 0.31 | cps |
| Strontium | 86-1 | 2912909 | 3006925 | 2965207 | 2961680 | 1.59 | cps |
| Strontium | 88-1 | 25167428 | 25701432 | 25669708 | 25512856 | 1.17 | cps |
| Sulfur | 34-1 | 6221807 | 6124153 | 6225934 | 6190631 | 0.93 | cps |
| Terbium | 159-1 | 20899572 | 19187051 | 21565305 | 20550642 | 5.97 | cps |
| Terbium | 159-2 | 8078164 | 7569267 | 7475578 | 7707670 | 4.21 | cps |
| Thallium | 203-1 | 1070 | 1243 | 1133 | 1149 | 7.63 | cps |
| Thallium | 205-1 | 2674 | 2764 | 2844 | 2760 | 3.08 | cps |
| Tin | 118-1 | 8996 | 9557 | 9357 | 9303 | 3.05 | cps |
| Titanium | 47-1 | 2290 | 2187 | 2134 | 2204 | 3.62 | cps |
| Uranium | 238-1 | 256376 | 257377 | 257624 | 257126 | 0.26 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2980 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:00:28 | DataFile Name : | 052AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4834 | 4848 | 4958 | 4880 | 1.39 | cps |
| Ytterbium | 172-1 | 307 | 250 | 327 | 294 | 13.50 | cps |
| Ytterbium | 172-2 | 120 | 150 | 123 | 131 | 12.54 | cps |
| Ytterbium | 176-1 | 2180 | 2010 | 2234 | 2141 | 5.45 | cps |
| Ytterbium | 176-2 | 437 | 400 | 397 | 411 | 5.40 | cps |
| Yttrium | 89-1 | 29980608 | 28029828 | 30832547 | 29614328 | 4.85 | cps |
| Yttrium | 89-2 | 2486650 | 2304839 | 2256731 | 2349407 | 5.16 | cps |
| Zinc | 66-2 | 1573 | 1593 | 1543 | 1570 | 1.60 | cps |
| Zirconium | 90-1 | 3347 | 3497 | 3607 | 3484 | 3.75 | cps |
| Zirconium | 91-1 | 693 | 693 | 777 | 721 | 6.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 420 | 470 | 427 | 439 | 6.19 | cps |
| Antimony | 121-1 | 237 | 283 | 290 | 270 | 10.76 | cps |
| Arsenic | 75-2 | 73 | 30 | 53 | 52 | 41.53 | cps |
| Barium | 135-1 | 65414 | 67011 | 67427 | 66617 | 1.60 | cps |
| Barium | 137-1 | 114647 | 117653 | 118318 | 116873 | 1.67 | cps |
| Beryllium | 9-1 | 472 | 519 | 482 | 491 | 4.95 | cps |
| Bismuth | 209-1 | 11426522 | 11535385 | 11437702 | 11466536 | 0.52 | cps |
| Bismuth | 209-2 | 4733729 | 4864830 | 4756259 | 4784939 | 1.46 | cps |
| Bromine | 81-1 | 119888 | 144028 | 155081 | 139665 | 12.89 | cps |
| Cadmium | 108-1 | 33 | 40 | 20 | 31 | 32.73 | cps |
| Cadmium | 106-1 | 8172 | 8469 | 8129 | 8257 | 2.24 | cps |
| Cadmium | 111-1 | 5757 | 5957 | 5736 | 5817 | 2.10 | cps |
| Calcium | 43-1 | 27222274 | 27861020 | 27648406 | 27577233 | 1.18 | cps |
| Calcium | 44-1 | 435757847 | 449147580 | 451086060 | 445330496 | 1.87 | cps |
| Carbon | 12-1 | 8971053 | 9660830 | 10126215 | 9586033 | 6.06 | cps |
| Carbon | 12-2 | 68937 | 69048 | 71355 | 69780 | 1.96 | cps |
| Chlorine | 35-1 | 31761167 | 35999073 | 37444731 | 35068324 | 8.42 | cps |
| Chlorine | 35-2 | 161234 | 162407 | 164554 | 162731 | 1.03 | cps |
| Chromium | 52-2 | 1823 | 1860 | 1640 | 1775 | 6.64 | cps |
| Cobalt | 59-2 | 460 | 510 | 467 | 479 | 5.67 | cps |
| Copper | 63-2 | 5134 | 5675 | 5574 | 5461 | 5.26 | cps |
| Dysprosium | 156-1 | 60 | 57 | 63 | 60 | 5.55 | cps |
| Dysprosium | 156-2 | 17 | 7 | 20 | 14 | 48.02 | cps |
| Erbium | 164-1 | 120 | 117 | 137 | 124 | 8.61 | cps |
| Erbium | 164-2 | 77 | 50 | 30 | 52 | 44.83 | cps |
| Gadolinium | 160-1 | 110 | 150 | 193 | 151 | 27.58 | cps |
| Gadolinium | 160-2 | 57 | 40 | 33 | 43 | 27.74 | cps |
| Holmium | 165-1 | 19957672 | 19874583 | 19709729 | 19847328 | 0.64 | cps |
| Holmium | 165-2 | 6842512 | 7172322 | 6878975 | 6964603 | 2.60 | cps |
| Indium | 115-1 | 15705580 | 15856117 | 15717869 | 15759856 | 0.53 | cps |
| Indium | 115-2 | 1482868 | 1599670 | 1538667 | 1540402 | 3.79 | cps |
| Iron | 54-2 | 228066 | 230094 | 231381 | 229847 | 0.73 | cps |
| Iron | 56-2 | 4403573 | 4312553 | 4343461 | 4353196 | 1.06 | cps |
| Iron | 57-2 | 106789 | 107353 | 106964 | 107035 | 0.27 | cps |
| Krypton | 83-1 | 363 | 343 | 290 | 332 | 11.41 | cps |
| Lead | 206-1 | 2737 | 3077 | 3094 | 2969 | 6.78 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2480 | 2687 | 2834 | 2667 | 6.66 | cps |
| Lead | 208-1 | 11062 | 12072 | 12129 | 11754 | 5.11 | cps |
| Lithium | 6-1 | 9037333 | 9242810 | 9149347 | 9143163 | 1.13 | cps |
| Magnesium | 24-2 | 41141718 | 40802064 | 41322690 | 41088824 | 0.64 | cps |
| Manganese | 55-2 | 86604 | 87254 | 86694 | 86851 | 0.41 | cps |
| Molybdenum | 94-1 | 4581 | 4728 | 4584 | 4631 | 1.81 | cps |
| Molybdenum | 95-1 | 7075 | 6695 | 7045 | 6938 | 3.05 | cps |
| Molybdenum | 96-1 | 6842 | 7129 | 7429 | 7133 | 4.11 | cps |
| Molybdenum | 97-1 | 3987 | 4131 | 4221 | 4113 | 2.86 | cps |
| Molybdenum | 98-1 | 10187 | 10437 | 10351 | 10325 | 1.23 | cps |
| Neodymium | 150-1 | 83 | 97 | 97 | 92 | 8.35 | cps |
| Neodymium | 150-2 | 17 | 17 | 10 | 14 | 26.66 | cps |
| Nickel | 60-2 | 1247 | 1250 | 1193 | 1230 | 2.59 | cps |
| Phosphorus | 31-2 | 140 | 120 | 150 | 137 | 11.18 | cps |
| Potassium | 39-2 | 807312 | 812444 | 808071 | 809276 | 0.34 | cps |
| Rhodium | 103-1 | 14169962 | 14389877 | 14261411 | 14273750 | 0.77 | cps |
| Rhodium | 103-2 | 5407071 | 5689532 | 5418291 | 5504965 | 2.91 | cps |
| Scandium | 45-1 | 11778421 | 11876804 | 11823388 | 11826204 | 0.42 | cps |
| Scandium | 45-2 | 219789 | 226705 | 220212 | 222235 | 1.74 | cps |
| Selenium | 82-1 | 37 | 120 | 137 | 98 | 54.79 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 3 | 27 | 13 | 14 | 81.07 | cps |
| Silicon | 28-1 | 117462955 | 121816065 | 124893525 | 121390848 | 3.08 | cps |
| Silver | 107-1 | 677 | 720 | 820 | 739 | 9.95 | cps |
| Silver | 109-1 | 443 | 513 | 583 | 513 | 13.64 | cps |
| Sodium | 23-2 | 106779492 | 105738468 | 106992365 | 106503442 | 0.63 | cps |
| Strontium | 86-1 | 82376817 | 82590484 | 84404314 | 83123872 | 1.34 | cps |
| Strontium | 88-1 | 700869510 | 726588843 | 722519189 | 716659180 | 1.93 | cps |
| Sulfur | 34-1 | 38628055 | 39219524 | 39255485 | 39034355 | 0.90 | cps |
| Terbium | 159-1 | 20067128 | 20470630 | 20273403 | 20270387 | 1.00 | cps |
| Terbium | 159-2 | 6665452 | 6899161 | 6742114 | 6768909 | 1.76 | cps |
| Thallium | 203-1 | 347 | 360 | 400 | 369 | 7.52 | cps |
| Thallium | 205-1 | 787 | 977 | 880 | 881 | 10.78 | cps |
| Tin | 118-1 | 9547 | 10214 | 9560 | 9774 | 3.90 | cps |
| Titanium | 47-1 | 2427 | 2417 | 2490 | 2445 | 1.63 | cps |
| Uranium | 238-1 | 12980 | 12797 | 13003 | 12927 | 0.88 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:03:40 | DataFile Name : | 053AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 93 | 90 | 103 | 96 | 7.27 | cps |
| Ytterbium | 172-1 | 143 | 113 | 117 | 124 | 13.21 | cps |
| Ytterbium | 172-2 | 70 | 57 | 37 | 54 | 30.81 | cps |
| Ytterbium | 176-1 | 2164 | 1810 | 1870 | 1948 | 9.71 | cps |
| Ytterbium | 176-2 | 277 | 290 | 330 | 299 | 9.29 | cps |
| Yttrium | 89-1 | 28613810 | 29381344 | 28449735 | 28814963 | 1.73 | cps |
| Yttrium | 89-2 | 2028509 | 2112449 | 2015475 | 2052144 | 2.56 | cps |
| Zinc | 66-2 | 753 | 730 | 787 | 757 | 3.76 | cps |
| Zirconium | 90-1 | 1990 | 1953 | 1793 | 1912 | 5.47 | cps |
| Zirconium | 91-1 | 427 | 437 | 323 | 396 | 15.86 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 430 | 393 | 390 | 404 | 5.49 | cps |
| Antimony | 121-1 | 280 | 390 | 267 | 312 | 21.68 | cps |
| Arsenic | 75-2 | 53 | 43 | 67 | 54 | 21.51 | cps |
| Barium | 135-1 | 65417 | 66227 | 65367 | 65670 | 0.74 | cps |
| Barium | 137-1 | 114375 | 115555 | 114479 | 114803 | 0.57 | cps |
| Beryllium | 9-1 | 492 | 464 | 495 | 484 | 3.59 | cps |
| Bismuth | 209-1 | 11349028 | 10891625 | 11571738 | 11270797 | 3.08 | cps |
| Bismuth | 209-2 | 4855250 | 4898674 | 4750030 | 4834651 | 1.58 | cps |
| Bromine | 81-1 | 127488 | 147048 | 156950 | 143829 | 10.42 | cps |
| Cadmium | 108-1 | 20 | 40 | 30 | 30 | 33.33 | cps |
| Cadmium | 106-1 | 8503 | 7976 | 8503 | 8327 | 3.65 | cps |
| Cadmium | 111-1 | 5991 | 5598 | 5971 | 5853 | 3.78 | cps |
| Calcium | 43-1 | 26987466 | 27388189 | 26890625 | 27088760 | 0.97 | cps |
| Calcium | 44-1 | 439724167 | 436835740 | 429130034 | 435229980 | 1.26 | cps |
| Carbon | 12-1 | 9142717 | 9761909 | 10202120 | 9702248 | 5.49 | cps |
| Carbon | 12-2 | 69399 | 69986 | 69694 | 69693 | 0.42 | cps |
| Chlorine | 35-1 | 33989446 | 36963875 | 37596048 | 36183123 | 5.32 | cps |
| Chlorine | 35-2 | 162923 | 165551 | 166889 | 165121 | 1.22 | cps |
| Chromium | 52-2 | 2480 | 2487 | 2380 | 2449 | 2.44 | cps |
| Cobalt | 59-2 | 507 | 513 | 457 | 492 | 6.29 | cps |
| Copper | 63-2 | 23536 | 24207 | 23914 | 23886 | 1.41 | cps |
| Dysprosium | 156-1 | 80 | 80 | 73 | 78 | 4.95 | cps |
| Dysprosium | 156-2 | 23 | 17 | 20 | 20 | 16.65 | cps |
| Erbium | 164-1 | 147 | 133 | 143 | 141 | 4.92 | cps |
| Erbium | 164-2 | 50 | 37 | 63 | 50 | 26.66 | cps |
| Gadolinium | 160-1 | 187 | 210 | 197 | 198 | 5.92 | cps |
| Gadolinium | 160-2 | 50 | 53 | 57 | 53 | 6.25 | cps |
| Holmium | 165-1 | 19796583 | 18835743 | 20044984 | 19559103 | 3.27 | cps |
| Holmium | 165-2 | 7110664 | 7031421 | 6958772 | 7033619 | 1.08 | cps |
| Indium | 115-1 | 15511827 | 15459529 | 16098524 | 15689960 | 2.26 | cps |
| Indium | 115-2 | 1609749 | 1601943 | 1578798 | 1596830 | 1.01 | cps |
| Iron | 54-2 | 251762 | 252156 | 250235 | 251384 | 0.40 | cps |
| Iron | 56-2 | 4830063 | 4779813 | 4746722 | 4785533 | 0.88 | cps |
| Iron | 57-2 | 115349 | 116807 | 115923 | 116026 | 0.63 | cps |
| Krypton | 83-1 | 247 | 350 | 323 | 307 | 17.49 | cps |
| Lead | 206-1 | 2667 | 2597 | 2827 | 2697 | 4.37 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2167 | 2127 | 2230 | 2175 | 2.40 | cps |
| Lead | 208-1 | 10148 | 10385 | 10869 | 10467 | 3.51 | cps |
| Lithium | 6-1 | 9216131 | 8861091 | 9451437 | 9176220 | 3.24 | cps |
| Magnesium | 24-2 | 39860483 | 40640578 | 40928479 | 40476513 | 1.37 | cps |
| Manganese | 55-2 | 85681 | 84428 | 85457 | 85189 | 0.78 | cps |
| Molybdenum | 94-1 | 4424 | 4564 | 4407 | 4465 | 1.93 | cps |
| Molybdenum | 95-1 | 6668 | 6792 | 6498 | 6653 | 2.22 | cps |
| Molybdenum | 96-1 | 7012 | 7219 | 7252 | 7161 | 1.82 | cps |
| Molybdenum | 97-1 | 4091 | 3867 | 4027 | 3995 | 2.88 | cps |
| Molybdenum | 98-1 | 10637 | 10728 | 10087 | 10484 | 3.31 | cps |
| Neodymium | 150-1 | 63 | 43 | 67 | 58 | 21.85 | cps |
| Neodymium | 150-2 | 7 | 23 | 13 | 14 | 58.06 | cps |
| Nickel | 60-2 | 1367 | 1367 | 1520 | 1418 | 6.24 | cps |
| Phosphorus | 31-2 | 120 | 167 | 133 | 140 | 17.17 | cps |
| Potassium | 39-2 | 799955 | 801404 | 801465 | 800941 | 0.11 | cps |
| Rhodium | 103-1 | 14182962 | 13826639 | 14276096 | 14095232 | 1.68 | cps |
| Rhodium | 103-2 | 5643850 | 5642449 | 5473512 | 5586604 | 1.75 | cps |
| Scandium | 45-1 | 11782449 | 11615029 | 11980324 | 11792600 | 1.55 | cps |
| Scandium | 45-2 | 228505 | 227931 | 225865 | 227434 | 0.61 | cps |
| Selenium | 82-1 | 183 | 73 | 90 | 116 | 51.31 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 13 | 7 | 10 | 33.30 | cps |
| Silicon | 28-1 | 119977472 | 121270575 | 119191282 | 120146443 | 0.87 | cps |
| Silver | 107-1 | 820 | 893 | 963 | 892 | 8.03 | cps |
| Silver | 109-1 | 453 | 590 | 580 | 541 | 14.08 | cps |
| Sodium | 23-2 | 106136095 | 104403268 | 104503138 | 105014167 | 0.93 | cps |
| Strontium | 86-1 | 80786064 | 81531559 | 80841989 | 81053204 | 0.51 | cps |
| Strontium | 88-1 | 694641296 | 688175190 | 702249216 | 695021901 | 1.01 | cps |
| Sulfur | 34-1 | 38042902 | 39255629 | 38354934 | 38551155 | 1.63 | cps |
| Terbium | 159-1 | 19830953 | 19213180 | 20379642 | 19807925 | 2.95 | cps |
| Terbium | 159-2 | 6890201 | 6883924 | 6682368 | 6818831 | 1.73 | cps |
| Thallium | 203-1 | 327 | 320 | 367 | 338 | 7.47 | cps |
| Thallium | 205-1 | 880 | 830 | 900 | 870 | 4.14 | cps |
| Tin | 118-1 | 8960 | 9560 | 9297 | 9272 | 3.25 | cps |
| Titanium | 47-1 | 2377 | 2420 | 2484 | 2427 | 2.21 | cps |
| Uranium | 238-1 | 12503 | 12807 | 12296 | 12535 | 2.05 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-10RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:06:55 | DataFile Name : | 054AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 117 | 120 | 87 | 108 | 17.03 | cps |
| Ytterbium | 172-1 | 77 | 130 | 140 | 116 | 29.46 | cps |
| Ytterbium | 172-2 | 50 | 60 | 40 | 50 | 20.00 | cps |
| Ytterbium | 176-1 | 1877 | 1847 | 2130 | 1951 | 7.98 | cps |
| Ytterbium | 176-2 | 310 | 277 | 340 | 309 | 10.26 | cps |
| Yttrium | 89-1 | 28877901 | 27548026 | 29056860 | 28494262 | 2.89 | cps |
| Yttrium | 89-2 | 2109461 | 2080020 | 2019934 | 2069805 | 2.20 | cps |
| Zinc | 66-2 | 977 | 973 | 973 | 974 | 0.20 | cps |
| Zirconium | 90-1 | 1763 | 1870 | 1780 | 1805 | 3.18 | cps |
| Zirconium | 91-1 | 370 | 343 | 380 | 364 | 5.20 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 323 | 423 | 357 | 368 | 13.84 | cps |
| Antimony | 121-1 | 127 | 103 | 100 | 110 | 13.21 | cps |
| Arsenic | 75-2 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Barium | 135-1 | 13667 | 13427 | 13063 | 13386 | 2.27 | cps |
| Barium | 137-1 | 24165 | 23524 | 22749 | 23479 | 3.02 | cps |
| Beryllium | 9-1 | 497 | 520 | 476 | 498 | 4.39 | cps |
| Bismuth | 209-1 | 12214248 | 12048979 | 11287677 | 11850301 | 4.17 | cps |
| Bismuth | 209-2 | 5139764 | 4903523 | 5242500 | 5095262 | 3.41 | cps |
| Bromine | 81-1 | 57229 | 58635 | 57855 | 57907 | 1.22 | cps |
| Cadmium | 108-1 | 10 | 30 | 17 | 19 | 53.91 | cps |
| Cadmium | 106-1 | 8579 | 8650 | 8329 | 8519 | 1.98 | cps |
| Cadmium | 111-1 | 6032 | 6054 | 5836 | 5974 | 2.01 | cps |
| Calcium | 43-1 | 5631337 | 5564094 | 5339022 | 5511484 | 2.78 | cps |
| Calcium | 44-1 | 90006662 | 91169105 | 86076119 | 89083962 | 3.00 | cps |
| Carbon | 12-1 | 7656128 | 7748031 | 7629971 | 7678043 | 0.81 | cps |
| Carbon | 12-2 | 48841 | 49279 | 49610 | 49243 | 0.78 | cps |
| Chlorine | 35-1 | 9304240 | 9555349 | 9440969 | 9433520 | 1.33 | cps |
| Chlorine | 35-2 | 39350 | 39788 | 40373 | 39837 | 1.29 | cps |
| Chromium | 52-2 | 1540 | 1460 | 1547 | 1516 | 3.18 | cps |
| Cobalt | 59-2 | 163 | 180 | 137 | 160 | 13.66 | cps |
| Copper | 63-2 | 6398 | 6335 | 6331 | 6355 | 0.59 | cps |
| Dysprosium | 156-1 | 30 | 20 | 40 | 30 | 33.33 | cps |
| Dysprosium | 156-2 | 10 | 10 | 7 | 9 | 21.63 | cps |
| Erbium | 164-1 | 133 | 113 | 80 | 109 | 24.75 | cps |
| Erbium | 164-2 | 17 | 43 | 33 | 31 | 43.29 | cps |
| Gadolinium | 160-1 | 130 | 130 | 100 | 120 | 14.43 | cps |
| Gadolinium | 160-2 | 23 | 27 | 40 | 30 | 29.40 | cps |
| Holmium | 165-1 | 20396493 | 19521146 | 18654433 | 19524024 | 4.46 | cps |
| Holmium | 165-2 | 7166208 | 7001645 | 7171417 | 7113090 | 1.36 | cps |
| Indium | 115-1 | 16441292 | 16033264 | 15365759 | 15946772 | 3.40 | cps |
| Indium | 115-2 | 1670776 | 1592515 | 1642875 | 1635389 | 2.43 | cps |
| Iron | 54-2 | 46542 | 47542 | 46930 | 47005 | 1.07 | cps |
| Iron | 56-2 | 856956 | 862298 | 863546 | 860934 | 0.41 | cps |
| Iron | 57-2 | 21546 | 21646 | 21887 | 21693 | 0.81 | cps |
| Krypton | 83-1 | 283 | 223 | 313 | 273 | 16.77 | cps |
| Lead | 206-1 | 2374 | 2120 | 2024 | 2172 | 8.32 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1900 | 1870 | 1710 | 1827 | 5.59 | cps |
| Lead | 208-1 | 8785 | 8471 | 8171 | 8476 | 3.62 | cps |
| Lithium | 6-1 | 9761144 | 9603442 | 8959228 | 9441271 | 4.50 | cps |
| Magnesium | 24-2 | 8151997 | 8350963 | 8349829 | 8284263 | 1.38 | cps |
| Manganese | 55-2 | 21369 | 21446 | 21473 | 21430 | 0.25 | cps |
| Molybdenum | 94-1 | 1373 | 1363 | 1357 | 1365 | 0.62 | cps |
| Molybdenum | 95-1 | 1697 | 1640 | 1563 | 1633 | 4.10 | cps |
| Molybdenum | 96-1 | 1783 | 1583 | 1787 | 1718 | 6.78 | cps |
| Molybdenum | 97-1 | 1070 | 950 | 867 | 962 | 10.62 | cps |
| Molybdenum | 98-1 | 2370 | 2424 | 2427 | 2407 | 1.32 | cps |
| Neodymium | 150-1 | 40 | 17 | 17 | 24 | 55.10 | cps |
| Neodymium | 150-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 1063 | 1097 | 1193 | 1118 | 6.04 | cps |
| Phosphorus | 31-2 | 97 | 97 | 87 | 93 | 6.19 | cps |
| Potassium | 39-2 | 175560 | 179022 | 178219 | 177600 | 1.02 | cps |
| Rhodium | 103-1 | 15296438 | 15186638 | 14162733 | 14881936 | 4.20 | cps |
| Rhodium | 103-2 | 6108952 | 5869128 | 6022295 | 6000125 | 2.02 | cps |
| Scandium | 45-1 | 12034821 | 12016421 | 11395540 | 11815594 | 3.08 | cps |
| Scandium | 45-2 | 231160 | 220791 | 232955 | 228302 | 2.88 | cps |
| Selenium | 82-1 | 80 | 73 | -20 | 44 | 125.80 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 0 | 20 | 17 | 12 | 87.67 | cps |
| Silicon | 28-1 | 25395236 | 25160130 | 23989985 | 24848451 | 3.03 | cps |
| Silver | 107-1 | 630 | 503 | 463 | 532 | 16.35 | cps |
| Silver | 109-1 | 330 | 353 | 320 | 334 | 5.11 | cps |
| Sodium | 23-2 | 20775194 | 21183534 | 21420400 | 21126376 | 1.54 | cps |
| Strontium | 86-1 | 16689568 | 16545479 | 15984770 | 16406605 | 2.27 | cps |
| Strontium | 88-1 | 142922365 | 143122288 | 138609741 | 141551465 | 1.80 | cps |
| Sulfur | 34-1 | 8878444 | 8653669 | 8292682 | 8608265 | 3.43 | cps |
| Terbium | 159-1 | 20442888 | 20229269 | 19054738 | 19908965 | 3.75 | cps |
| Terbium | 159-2 | 6845912 | 6732588 | 6994236 | 6857579 | 1.91 | cps |
| Thallium | 203-1 | 363 | 317 | 277 | 319 | 13.60 | cps |
| Thallium | 205-1 | 790 | 813 | 870 | 824 | 4.99 | cps |
| Tin | 118-1 | 4971 | 4728 | 4571 | 4756 | 4.24 | cps |
| Titanium | 47-1 | 757 | 687 | 777 | 740 | 6.39 | cps |
| Uranium | 238-1 | 2447 | 2567 | 2497 | 2504 | 2.41 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09LREX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:10:12 | DataFile Name : | 055AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 37 | 20 | 30 | 29 | 29.04 | cps |
| Ytterbium | 172-1 | 133 | 110 | 113 | 119 | 10.62 | cps |
| Ytterbium | 172-2 | 53 | 43 | 53 | 50 | 11.55 | cps |
| Ytterbium | 176-1 | 2000 | 1954 | 1763 | 1906 | 6.58 | cps |
| Ytterbium | 176-2 | 263 | 257 | 323 | 281 | 13.06 | cps |
| Yttrium | 89-1 | 29403529 | 29240260 | 27505495 | 28716428 | 3.66 | cps |
| Yttrium | 89-2 | 2103967 | 2061968 | 2136278 | 2100738 | 1.77 | cps |
| Zinc | 66-2 | 653 | 760 | 610 | 674 | 11.45 | cps |
| Zirconium | 90-1 | 1203 | 1250 | 1043 | 1166 | 9.30 | cps |
| Zirconium | 91-1 | 243 | 237 | 213 | 231 | 6.82 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 149887 | 148388 | 148280 | 148852 | 0.60 | cps |
| Antimony | 121-1 | 1732634 | 1731125 | 1743595 | 1735785 | 0.39 | cps |
| Arsenic | 75-2 | 14998 | 14995 | 14965 | 14986 | 0.12 | cps |
| Barium | 135-1 | 8039330 | 8133679 | 8180719 | 8117909 | 0.89 | cps |
| Barium | 137-1 | 13667924 | 14176647 | 14509253 | 14117941 | 3.00 | cps |
| Beryllium | 9-1 | 308016 | 316095 | 320070 | 314727 | 1.95 | cps |
| Bismuth | 209-1 | 11615499 | 11072412 | 11198593 | 11295501 | 2.52 | cps |
| Bismuth | 209-2 | 5079132 | 4892701 | 5092831 | 5021555 | 2.23 | cps |
| Bromine | 81-1 | 118694 | 145442 | 160821 | 141652 | 15.05 | cps |
| Cadmium | 108-1 | 12509 | 12699 | 12759 | 12656 | 1.03 | cps |
| Cadmium | 106-1 | 26025 | 25587 | 25721 | 25777 | 0.87 | cps |
| Cadmium | 111-1 | 195511 | 199398 | 201546 | 198818 | 1.54 | cps |
| Calcium | 43-1 | 25765681 | 26419681 | 27084659 | 26423340 | 2.50 | cps |
| Calcium | 44-1 | 412190194 | 429329700 | 439914793 | 427144896 | 3.28 | cps |
| Carbon | 12-1 | 9695511 | 10841655 | 11461359 | 10666175 | 8.40 | cps |
| Carbon | 12-2 | 80693 | 81665 | 82919 | 81759 | 1.36 | cps |
| Chlorine | 35-1 | 62943966 | 69009009 | 72736177 | 68229717 | 7.24 | cps |
| Chlorine | 35-2 | 316887 | 321519 | 322526 | 320310 | 0.94 | cps |
| Chromium | 52-2 | 830610 | 822294 | 831840 | 828248 | 0.63 | cps |
| Cobalt | 59-2 | 4029622 | 3950631 | 3914439 | 3964897 | 1.49 | cps |
| Copper | 63-2 | 1447192 | 1427866 | 1427673 | 1434244 | 0.78 | cps |
| Dysprosium | 156-1 | 143 | 167 | 123 | 144 | 15.01 | cps |
| Dysprosium | 156-2 | 17 | 10 | 20 | 16 | 32.73 | cps |
| Erbium | 164-1 | 140 | 160 | 93 | 131 | 26.09 | cps |
| Erbium | 164-2 | 73 | 47 | 47 | 56 | 27.71 | cps |
| Gadolinium | 160-1 | 123 | 217 | 167 | 169 | 27.65 | cps |
| Gadolinium | 160-2 | 43 | 33 | 73 | 50 | 41.64 | cps |
| Holmium | 165-1 | 20257792 | 19486343 | 19994643 | 19912926 | 1.97 | cps |
| Holmium | 165-2 | 7400909 | 7451336 | 7449046 | 7433763 | 0.38 | cps |
| Indium | 115-1 | 16395238 | 15453158 | 15589349 | 15812582 | 3.22 | cps |
| Indium | 115-2 | 1687924 | 1668339 | 1704172 | 1686812 | 1.06 | cps |
| Iron | 54-2 | 425389 | 414394 | 416763 | 418848 | 1.38 | cps |
| Iron | 56-2 | 7453274 | 7303319 | 7490953 | 7415849 | 1.34 | cps |
| Iron | 57-2 | 179930 | 179110 | 180271 | 179770 | 0.33 | cps |
| Krypton | 83-1 | 273 | 330 | 347 | 317 | 12.14 | cps |
| Lead | 206-1 | 236939 | 243386 | 245091 | 241805 | 1.78 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 204080 | 208391 | 210923 | 207798 | 1.66 | cps |
| Lead | 208-1 | 942430 | 964531 | 978104 | 961688 | 1.87 | cps |
| Lithium | 6-1 | 9355157 | 9019993 | 9296709 | 9223953 | 1.94 | cps |
| Magnesium | 24-2 | 40184993 | 40334729 | 40028236 | 40182652 | 0.38 | cps |
| Manganese | 55-2 | 906906 | 886662 | 890987 | 894851 | 1.19 | cps |
| Molybdenum | 94-1 | 4534 | 4564 | 4664 | 4587 | 1.48 | cps |
| Molybdenum | 95-1 | 6231 | 6368 | 6788 | 6463 | 4.49 | cps |
| Molybdenum | 96-1 | 6668 | 6555 | 7139 | 6787 | 4.56 | cps |
| Molybdenum | 97-1 | 3754 | 4087 | 4047 | 3963 | 4.59 | cps |
| Molybdenum | 98-1 | 10034 | 10547 | 10631 | 10404 | 3.11 | cps |
| Neodymium | 150-1 | 637 | 567 | 683 | 629 | 9.34 | cps |
| Neodymium | 150-2 | 27 | 13 | 13 | 18 | 43.33 | cps |
| Nickel | 60-2 | 1031824 | 1014870 | 1011199 | 1019298 | 1.08 | cps |
| Phosphorus | 31-2 | 127 | 160 | 160 | 149 | 12.92 | cps |
| Potassium | 39-2 | 801086 | 788144 | 782781 | 790670 | 1.19 | cps |
| Rhodium | 103-1 | 14690222 | 14031295 | 14318449 | 14346655 | 2.30 | cps |
| Rhodium | 103-2 | 5881012 | 5788300 | 5820470 | 5829928 | 0.81 | cps |
| Scandium | 45-1 | 12277621 | 11582033 | 11648586 | 11836080 | 3.24 | cps |
| Scandium | 45-2 | 239891 | 234662 | 235720 | 236757 | 1.17 | cps |
| Selenium | 82-1 | 4751 | 5078 | 5078 | 4969 | 3.80 | cps |
| Selenium | 77-2 | 113 | 90 | 90 | 98 | 13.78 | cps |
| Selenium | 78-2 | 327 | 330 | 340 | 332 | 2.09 | cps |
| Silicon | 28-1 | 111815155 | 116890292 | 119011288 | 115905578 | 3.19 | cps |
| Silver | 107-1 | 920272 | 949104 | 964933 | 944770 | 2.40 | cps |
| Silver | 109-1 | 875004 | 908414 | 918803 | 900741 | 2.54 | cps |
| Sodium | 23-2 | 105447938 | 103050082 | 102383808 | 103627276 | 1.56 | cps |
| Strontium | 86-1 | 77574259 | 78013659 | 79629424 | 78405780 | 1.38 | cps |
| Strontium | 88-1 | 663033803 | 662065043 | 691063110 | 672053986 | 2.45 | cps |
| Sulfur | 34-1 | 36710909 | 37390821 | 38133461 | 37411731 | 1.90 | cps |
| Terbium | 159-1 | 20852881 | 19725513 | 20101181 | 20226525 | 2.84 | cps |
| Terbium | 159-2 | 7153126 | 7003123 | 7132031 | 7096094 | 1.14 | cps |
| Thallium | 203-1 | 727488 | 742289 | 761597 | 743791 | 2.30 | cps |
| Thallium | 205-1 | 1836550 | 1884372 | 1882239 | 1867720 | 1.45 | cps |
| Tin | 118-1 | 9553 | 9340 | 9530 | 9474 | 1.24 | cps |
| Titanium | 47-1 | 2430 | 2444 | 2480 | 2451 | 1.06 | cps |
| Uranium | 238-1 | 11959 | 12166 | 12276 | 12134 | 1.33 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-11RE | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:13:23 | DataFile Name : | 056AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1737359 | 1676591 | 1723992 | 1712647 | 1.86 | cps |
| Ytterbium | 172-1 | 103 | 153 | 153 | 137 | 21.13 | cps |
| Ytterbium | 172-2 | 37 | 40 | 83 | 53 | 48.81 | cps |
| Ytterbium | 176-1 | 1867 | 1757 | 1843 | 1822 | 3.18 | cps |
| Ytterbium | 176-2 | 297 | 297 | 327 | 307 | 5.65 | cps |
| Yttrium | 89-1 | 29453052 | 28074400 | 28634995 | 28720816 | 2.41 | cps |
| Yttrium | 89-2 | 2186100 | 2135545 | 2159370 | 2160339 | 1.17 | cps |
| Zinc | 66-2 | 299754 | 294247 | 297014 | 297005 | 0.93 | cps |
| Zirconium | 90-1 | 2267 | 2267 | 2287 | 2274 | 0.51 | cps |
| Zirconium | 91-1 | 603 | 550 | 587 | 580 | 4.70 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 130 | 103 | 130 | 121 | 12.71 | cps |
| Antimony | 121-1 | 207 | 153 | 133 | 164 | 23.05 | cps |
| Arsenic | 75-2 | 3 | 7 | 3 | 4 | 43.40 | cps |
| Barium | 135-1 | 353 | 217 | 213 | 261 | 30.59 | cps |
| Barium | 137-1 | 530 | 403 | 350 | 428 | 21.61 | cps |
| Beryllium | 9-1 | 615 | 567 | 517 | 567 | 8.60 | cps |
| Bismuth | 209-1 | 13198886 | 12991830 | 12801133 | 12997283 | 1.53 | cps |
| Bismuth | 209-2 | 5865025 | 5735639 | 5849847 | 5816837 | 1.22 | cps |
| Bromine | 81-1 | 37911 | 34041 | 30670 | 34208 | 10.59 | cps |
| Cadmium | 108-1 | 7 | 30 | 30 | 22 | 60.61 | cps |
| Cadmium | 106-1 | 9293 | 9100 | 9050 | 9148 | 1.41 | cps |
| Cadmium | 111-1 | 6541 | 6382 | 6360 | 6428 | 1.53 | cps |
| Calcium | 43-1 | 1720 | 1143 | 1350 | 1405 | 20.80 | cps |
| Calcium | 44-1 | 56651 | 49545 | 49712 | 51969 | 7.80 | cps |
| Carbon | 12-1 | 7670417 | 7619473 | 7721766 | 7670552 | 0.67 | cps |
| Carbon | 12-2 | 47303 | 46891 | 47105 | 47100 | 0.44 | cps |
| Chlorine | 35-1 | 4537122 | 4060302 | 3715692 | 4104372 | 10.05 | cps |
| Chlorine | 35-2 | 13153 | 12812 | 11912 | 12626 | 5.08 | cps |
| Chromium | 52-2 | 1273 | 1443 | 1233 | 1317 | 8.47 | cps |
| Cobalt | 59-2 | 170 | 173 | 150 | 164 | 7.68 | cps |
| Copper | 63-2 | 6848 | 6755 | 6765 | 6789 | 0.76 | cps |
| Dysprosium | 156-1 | 17 | 17 | 13 | 16 | 12.40 | cps |
| Dysprosium | 156-2 | 7 | 10 | 3 | 7 | 50.03 | cps |
| Erbium | 164-1 | 87 | 117 | 90 | 98 | 16.82 | cps |
| Erbium | 164-2 | 40 | 43 | 30 | 38 | 18.36 | cps |
| Gadolinium | 160-1 | 157 | 150 | 120 | 142 | 13.73 | cps |
| Gadolinium | 160-2 | 20 | 27 | 20 | 22 | 17.33 | cps |
| Holmium | 165-1 | 21019030 | 20432839 | 20504889 | 20652253 | 1.55 | cps |
| Holmium | 165-2 | 7800856 | 7654487 | 7745884 | 7733742 | 0.96 | cps |
| Indium | 115-1 | 17634736 | 17120669 | 17268800 | 17341402 | 1.53 | cps |
| Indium | 115-2 | 1848917 | 1855142 | 1845188 | 1849749 | 0.27 | cps |
| Iron | 54-2 | 570 | 557 | 637 | 588 | 7.29 | cps |
| Iron | 56-2 | 7769 | 7562 | 7429 | 7587 | 2.26 | cps |
| Iron | 57-2 | 163 | 207 | 237 | 202 | 18.23 | cps |
| Krypton | 83-1 | 323 | 253 | 313 | 297 | 12.76 | cps |
| Lead | 206-1 | 1924 | 2050 | 1960 | 1978 | 3.30 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1987 | 1823 | 1743 | 1851 | 6.70 | cps |
| Lead | 208-1 | 8104 | 7898 | 7764 | 7922 | 2.16 | cps |
| Lithium | 6-1 | 10352188 | 10194414 | 10024182 | 10190261 | 1.61 | cps |
| Magnesium | 24-2 | 2560 | 2430 | 2607 | 2532 | 3.62 | cps |
| Manganese | 55-2 | 123 | 217 | 150 | 163 | 29.43 | cps |
| Molybdenum | 94-1 | 600 | 517 | 480 | 532 | 11.55 | cps |
| Molybdenum | 95-1 | 303 | 303 | 320 | 309 | 3.12 | cps |
| Molybdenum | 96-1 | 490 | 423 | 383 | 432 | 12.47 | cps |
| Molybdenum | 97-1 | 263 | 163 | 177 | 201 | 27.00 | cps |
| Molybdenum | 98-1 | 470 | 547 | 467 | 494 | 9.15 | cps |
| Neodymium | 150-1 | 10 | 3 | 20 | 11 | 75.52 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1043 | 1103 | 1023 | 1057 | 3.94 | cps |
| Phosphorus | 31-2 | 90 | 93 | 100 | 94 | 5.39 | cps |
| Potassium | 39-2 | 21676 | 21553 | 21272 | 21501 | 0.96 | cps |
| Rhodium | 103-1 | 16612050 | 16415111 | 16391041 | 16472734 | 0.74 | cps |
| Rhodium | 103-2 | 6814157 | 6730949 | 6827669 | 6790925 | 0.77 | cps |
| Scandium | 45-1 | 12796737 | 12619339 | 12568533 | 12661536 | 0.95 | cps |
| Scandium | 45-2 | 252926 | 249373 | 249374 | 250558 | 0.82 | cps |
| Selenium | 82-1 | 23 | 63 | -27 | 20 | 225.50 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 17 | 7 | 3 | 9 | 78.08 | cps |
| Silicon | 28-1 | 770001 | 760213 | 757763 | 762659 | 0.85 | cps |
| Silver | 107-1 | 1047 | 943 | 783 | 924 | 14.35 | cps |
| Silver | 109-1 | 773 | 767 | 603 | 714 | 13.48 | cps |
| Sodium | 23-2 | 92534 | 91652 | 90880 | 91689 | 0.90 | cps |
| Strontium | 86-1 | 3721 | 2424 | 2450 | 2865 | 25.87 | cps |
| Strontium | 88-1 | 28454 | 18693 | 18976 | 22041 | 25.21 | cps |
| Sulfur | 34-1 | 1044131 | 1049291 | 1052208 | 1048543 | 0.39 | cps |
| Terbium | 159-1 | 21670601 | 21181151 | 21157488 | 21336413 | 1.36 | cps |
| Terbium | 159-2 | 7608939 | 7471345 | 7530616 | 7536967 | 0.92 | cps |
| Thallium | 203-1 | 450 | 447 | 347 | 414 | 14.17 | cps |
| Thallium | 205-1 | 1020 | 1187 | 1053 | 1087 | 8.12 | cps |
| Tin | 118-1 | 2094 | 2090 | 1953 | 2046 | 3.91 | cps |
| Titanium | 47-1 | 313 | 307 | 303 | 308 | 1.65 | cps |
| Uranium | 238-1 | 37 | 13 | 33 | 28 | 45.44 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:16:33 | DataFile Name : | 057CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 57 | 57 | 30 | 48 | 32.23 | cps |
| Ytterbium | 172-1 | 117 | 100 | 113 | 110 | 8.02 | cps |
| Ytterbium | 172-2 | 37 | 53 | 43 | 44 | 18.87 | cps |
| Ytterbium | 176-1 | 2094 | 2237 | 1907 | 2079 | 7.96 | cps |
| Ytterbium | 176-2 | 250 | 293 | 280 | 274 | 8.09 | cps |
| Yttrium | 89-1 | 31018036 | 31106865 | 30427275 | 30850725 | 1.20 | cps |
| Yttrium | 89-2 | 2332339 | 2304423 | 2289391 | 2308718 | 0.94 | cps |
| Zinc | 66-2 | 247 | 203 | 273 | 241 | 14.65 | cps |
| Zirconium | 90-1 | 1033 | 1037 | 1090 | 1053 | 3.02 | cps |
| Zirconium | 91-1 | 223 | 267 | 240 | 243 | 8.98 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3674 | 3544 | 3554 | 3590 | 2.02 | cps |
| Antimony | 121-1 | 77656 | 76308 | 75973 | 76645 | 1.16 | cps |
| Arsenic | 75-2 | 860 | 963 | 780 | 868 | 10.59 | cps |
| Barium | 135-1 | 87306 | 89020 | 88916 | 88414 | 1.09 | cps |
| Barium | 137-1 | 155357 | 154970 | 155082 | 155136 | 0.13 | cps |
| Beryllium | 9-1 | 15265 | 15750 | 15560 | 15525 | 1.58 | cps |
| Bismuth | 209-1 | 12971778 | 13068093 | 13198182 | 13079351 | 0.87 | cps |
| Bismuth | 209-2 | 5797848 | 5781133 | 5759667 | 5779550 | 0.33 | cps |
| Bromine | 81-1 | 11251 | 11028 | 10637 | 10972 | 2.83 | cps |
| Cadmium | 108-1 | 697 | 757 | 760 | 738 | 4.83 | cps |
| Cadmium | 106-1 | 10077 | 10231 | 10194 | 10167 | 0.79 | cps |
| Cadmium | 111-1 | 15996 | 16302 | 16120 | 16139 | 0.95 | cps |
| Calcium | 43-1 | 66707 | 68438 | 68368 | 67838 | 1.44 | cps |
| Calcium | 44-1 | 1107493 | 1123941 | 1126348 | 1119261 | 0.92 | cps |
| Carbon | 12-1 | 5762111 | 5721788 | 5514295 | 5666065 | 2.35 | cps |
| Carbon | 12-2 | 34931 | 35496 | 36058 | 35495 | 1.59 | cps |
| Chlorine | 35-1 | 3234626 | 3477842 | 3550492 | 3420987 | 4.84 | cps |
| Chlorine | 35-2 | 15118 | 14674 | 15345 | 15046 | 2.27 | cps |
| Chromium | 52-2 | 20575 | 19957 | 20171 | 20234 | 1.55 | cps |
| Cobalt | 59-2 | 17888 | 17945 | 18205 | 18013 | 0.94 | cps |
| Copper | 63-2 | 34141 | 34502 | 34318 | 34320 | 0.53 | cps |
| Dysprosium | 156-1 | 40 | 30 | 17 | 29 | 40.51 | cps |
| Dysprosium | 156-2 | 3 | 17 | 0 | 7 | 132.33 | cps |
| Erbium | 164-1 | 130 | 133 | 107 | 123 | 11.78 | cps |
| Erbium | 164-2 | 50 | 20 | 33 | 34 | 43.64 | cps |
| Gadolinium | 160-1 | 103 | 147 | 150 | 133 | 19.53 | cps |
| Gadolinium | 160-2 | 23 | 20 | 40 | 28 | 38.58 | cps |
| Holmium | 165-1 | 20749875 | 21081529 | 20802512 | 20877972 | 0.85 | cps |
| Holmium | 165-2 | 7849473 | 7818626 | 7764356 | 7810818 | 0.55 | cps |
| Indium | 115-1 | 17143188 | 17486583 | 17165976 | 17265249 | 1.11 | cps |
| Indium | 115-2 | 1829816 | 1834481 | 1826171 | 1830156 | 0.23 | cps |
| Iron | 54-2 | 77492 | 76483 | 76460 | 76812 | 0.77 | cps |
| Iron | 56-2 | 1472952 | 1446093 | 1432454 | 1450500 | 1.42 | cps |
| Iron | 57-2 | 35782 | 34863 | 34525 | 35056 | 1.85 | cps |
| Krypton | 83-1 | 247 | 313 | 243 | 268 | 14.75 | cps |
| Lead | 206-1 | 30720 | 30449 | 29801 | 30323 | 1.56 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26096 | 26357 | 26607 | 26354 | 0.97 | cps |
| Lead | 208-1 | 120097 | 121597 | 122044 | 121246 | 0.84 | cps |
| Lithium | 6-1 | 9961884 | 9993852 | 9900660 | 9952132 | 0.48 | cps |
| Magnesium | 24-2 | 300523 | 299987 | 300146 | 300219 | 0.09 | cps |
| Manganese | 55-2 | 3947 | 4087 | 4201 | 4078 | 3.11 | cps |
| Molybdenum | 94-1 | 79931 | 80628 | 80578 | 80379 | 0.48 | cps |
| Molybdenum | 95-1 | 95421 | 96298 | 94626 | 95448 | 0.88 | cps |
| Molybdenum | 96-1 | 106289 | 107895 | 105708 | 106631 | 1.06 | cps |
| Molybdenum | 97-1 | 60052 | 59212 | 60257 | 59841 | 0.92 | cps |
| Molybdenum | 98-1 | 152970 | 152834 | 154283 | 153362 | 0.52 | cps |
| Neodymium | 150-1 | 23 | 0 | 7 | 10 | 120.16 | cps |
| Neodymium | 150-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 6035 | 6365 | 5925 | 6108 | 3.75 | cps |
| Phosphorus | 31-2 | 263 | 257 | 393 | 304 | 25.31 | cps |
| Potassium | 39-2 | 197114 | 196681 | 198762 | 197519 | 0.56 | cps |
| Rhodium | 103-1 | 16631932 | 16743471 | 16129903 | 16501768 | 1.98 | cps |
| Rhodium | 103-2 | 6701334 | 6661498 | 6794221 | 6719018 | 1.01 | cps |
| Scandium | 45-1 | 12599339 | 12512296 | 12568392 | 12560009 | 0.35 | cps |
| Scandium | 45-2 | 254733 | 249216 | 250805 | 251585 | 1.13 | cps |
| Selenium | 82-1 | 3110 | 3247 | 3024 | 3127 | 3.60 | cps |
| Selenium | 77-2 | 33 | 43 | 50 | 42 | 19.87 | cps |
| Selenium | 78-2 | 227 | 210 | 203 | 213 | 5.63 | cps |
| Silicon | 28-1 | 973183 | 954813 | 967990 | 965329 | 0.98 | cps |
| Silver | 107-1 | 47361 | 48478 | 48331 | 48057 | 1.26 | cps |
| Silver | 109-1 | 45558 | 45488 | 46201 | 45749 | 0.86 | cps |
| Sodium | 23-2 | 711703 | 706143 | 711073 | 709640 | 0.43 | cps |
| Strontium | 86-1 | 12853 | 13453 | 13203 | 13170 | 2.29 | cps |
| Strontium | 88-1 | 108813 | 110315 | 110802 | 109977 | 0.94 | cps |
| Sulfur | 34-1 | 1027500 | 1024776 | 1028169 | 1026815 | 0.18 | cps |
| Terbium | 159-1 | 21616221 | 21270906 | 21477163 | 21454764 | 0.81 | cps |
| Terbium | 159-2 | 7479776 | 7568008 | 7449666 | 7499150 | 0.82 | cps |
| Thallium | 203-1 | 35509 | 35298 | 35756 | 35521 | 0.65 | cps |
| Thallium | 205-1 | 85483 | 85583 | 85825 | 85630 | 0.21 | cps |
| Tin | 118-1 | 154892 | 156557 | 154072 | 155174 | 0.82 | cps |
| Titanium | 47-1 | 8309 | 8099 | 8430 | 8279 | 2.02 | cps |
| Uranium | 238-1 | 107000 | 108187 | 109077 | 108088 | 0.96 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166435BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS435 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:24:51 | DataFile Name : | 059LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 35771 | 36216 | 36928 | 36305 | 1.61 | cps |
| Ytterbium | 172-1 | 100 | 107 | 110 | 106 | 4.82 | cps |
| Ytterbium | 172-2 | 40 | 50 | 60 | 50 | 20.00 | cps |
| Ytterbium | 176-1 | 2170 | 2174 | 2314 | 2219 | 3.69 | cps |
| Ytterbium | 176-2 | 413 | 413 | 410 | 412 | 0.47 | cps |
| Yttrium | 89-1 | 31199708 | 30837136 | 30513802 | 30850215 | 1.11 | cps |
| Yttrium | 89-2 | 2269216 | 2292271 | 2337516 | 2299667 | 1.51 | cps |
| Zinc | 66-2 | 7505 | 7379 | 7232 | 7372 | 1.86 | cps |
| Zirconium | 90-1 | 67505 | 66886 | 67435 | 67276 | 0.50 | cps |
| Zirconium | 91-1 | 14788 | 15309 | 14498 | 14865 | 2.76 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 51240 | 49778 | 51243 | 50754 | 1.66 | cps |
| Antimony | 121-1 | 1683 | 1643 | 1653 | 1660 | 1.25 | cps |
| Arsenic | 75-2 | 823 | 917 | 817 | 852 | 6.56 | cps |
| Barium | 135-1 | 176528 | 180065 | 181182 | 179258 | 1.36 | cps |
| Barium | 137-1 | 309653 | 312986 | 311247 | 311295 | 0.54 | cps |
| Beryllium | 9-1 | 466 | 434 | 432 | 444 | 4.31 | cps |
| Bismuth | 209-1 | 12458653 | 12273019 | 12114961 | 12282211 | 1.40 | cps |
| Bismuth | 209-2 | 5484043 | 5498748 | 5542073 | 5508288 | 0.55 | cps |
| Bromine | 81-1 | 253012 | 273519 | 288332 | 271621 | 6.53 | cps |
| Cadmium | 108-1 | 233 | 217 | 230 | 227 | 3.89 | cps |
| Cadmium | 106-1 | 9330 | 9133 | 8933 | 9132 | 2.17 | cps |
| Cadmium | 111-1 | 6621 | 6512 | 6339 | 6490 | 2.19 | cps |
| Calcium | 43-1 | 8712251 | 8724892 | 8777483 | 8738209 | 0.40 | cps |
| Calcium | 44-1 | 139796071 | 141964271 | 142830245 | 141530196 | 1.10 | cps |
| Carbon | 12-1 | 18053270 | 19693402 | 20469652 | 19405441 | 6.36 | cps |
| Carbon | 12-2 | 139566 | 138037 | 137886 | 138496 | 0.67 | cps |
| Chlorine | 35-1 | 3226629 | 3399332 | 3560260 | 3395407 | 4.91 | cps |
| Chlorine | 35-2 | 14638 | 14834 | 14995 | 14822 | 1.21 | cps |
| Chromium | 52-2 | 2437 | 2250 | 2374 | 2354 | 4.03 | cps |
| Cobalt | 59-2 | 1080 | 1187 | 1033 | 1100 | 7.15 | cps |
| Copper | 63-2 | 8646 | 8593 | 8663 | 8634 | 0.42 | cps |
| Dysprosium | 156-1 | 50 | 47 | 37 | 44 | 15.61 | cps |
| Dysprosium | 156-2 | 13 | 13 | 13 | 13 | 0.00 | cps |
| Erbium | 164-1 | 150 | 123 | 153 | 142 | 11.56 | cps |
| Erbium | 164-2 | 33 | 37 | 53 | 41 | 26.06 | cps |
| Gadolinium | 160-1 | 117 | 190 | 193 | 167 | 26.00 | cps |
| Gadolinium | 160-2 | 43 | 37 | 40 | 40 | 8.32 | cps |
| Holmium | 165-1 | 20403894 | 20519160 | 20672590 | 20531881 | 0.66 | cps |
| Holmium | 165-2 | 7775642 | 7780223 | 7802943 | 7786269 | 0.19 | cps |
| Indium | 115-1 | 16521604 | 16797472 | 16826893 | 16715323 | 1.01 | cps |
| Indium | 115-2 | 1764216 | 1757930 | 1772742 | 1764963 | 0.42 | cps |
| Iron | 54-2 | 5584 | 5751 | 5625 | 5653 | 1.54 | cps |
| Iron | 56-2 | 100393 | 100340 | 100440 | 100391 | 0.05 | cps |
| Iron | 57-2 | 2877 | 2850 | 2737 | 2821 | 2.64 | cps |
| Krypton | 83-1 | 230 | 260 | 233 | 241 | 6.82 | cps |
| Lead | 206-1 | 4404 | 4184 | 4548 | 4379 | 4.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3814 | 3477 | 3697 | 3663 | 4.67 | cps |
| Lead | 208-1 | 17475 | 16851 | 17128 | 17151 | 1.82 | cps |
| Lithium | 6-1 | 9701016 | 9749312 | 9917583 | 9789304 | 1.16 | cps |
| Magnesium | 24-2 | 9803 | 9823 | 9897 | 9841 | 0.50 | cps |
| Manganese | 55-2 | 5084 | 5308 | 5141 | 5178 | 2.24 | cps |
| Molybdenum | 94-1 | 235411 | 233490 | 234623 | 234508 | 0.41 | cps |
| Molybdenum | 95-1 | 400381 | 399236 | 404224 | 401280 | 0.65 | cps |
| Molybdenum | 96-1 | 427093 | 433415 | 435221 | 431910 | 0.99 | cps |
| Molybdenum | 97-1 | 248069 | 250055 | 251695 | 249940 | 0.73 | cps |
| Molybdenum | 98-1 | 636628 | 641431 | 642983 | 640347 | 0.52 | cps |
| Neodymium | 150-1 | 73 | 103 | 47 | 74 | 38.08 | cps |
| Neodymium | 150-2 | 20 | 17 | 20 | 19 | 10.18 | cps |
| Nickel | 60-2 | 379467 | 376213 | 378016 | 377899 | 0.43 | cps |
| Phosphorus | 31-2 | 1963 | 1830 | 1837 | 1877 | 4.00 | cps |
| Potassium | 39-2 | 11066928 | 11058974 | 11217198 | 11114367 | 0.80 | cps |
| Rhodium | 103-1 | 15403476 | 15436774 | 15387835 | 15409362 | 0.16 | cps |
| Rhodium | 103-2 | 6350193 | 6444883 | 6480396 | 6425157 | 1.05 | cps |
| Scandium | 45-1 | 12278028 | 12134959 | 12369549 | 12260845 | 0.96 | cps |
| Scandium | 45-2 | 249955 | 250070 | 249758 | 249928 | 0.06 | cps |
| Selenium | 82-1 | 480 | 537 | 447 | 488 | 9.33 | cps |
| Selenium | 77-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 33 | 27 | 10 | 23 | 51.50 | cps |
| Silicon | 28-1 | 34597737 | 35374040 | 35591323 | 35187700 | 1.48 | cps |
| Silver | 107-1 | 763 | 663 | 637 | 688 | 9.71 | cps |
| Silver | 109-1 | 507 | 400 | 453 | 453 | 11.76 | cps |
| Sodium | 23-2 | 19866365 | 19576037 | 19365991 | 19602798 | 1.28 | cps |
| Strontium | 86-1 | 7968229 | 7953764 | 7931410 | 7951134 | 0.23 | cps |
| Strontium | 88-1 | 68285927 | 69151501 | 69096647 | 68844692 | 0.70 | cps |
| Sulfur | 34-1 | 2003244 | 1981225 | 1986882 | 1990451 | 0.57 | cps |
| Terbium | 159-1 | 21180661 | 21307807 | 21248115 | 21245527 | 0.30 | cps |
| Terbium | 159-2 | 7572460 | 7480834 | 7544284 | 7532526 | 0.62 | cps |
| Thallium | 203-1 | 320 | 317 | 380 | 339 | 10.52 | cps |
| Thallium | 205-1 | 727 | 890 | 903 | 840 | 11.71 | cps |
| Tin | 118-1 | 12523 | 13243 | 12893 | 12886 | 2.80 | cps |
| Titanium | 47-1 | 2257 | 2170 | 2290 | 2239 | 2.77 | cps |
| Uranium | 238-1 | 80 | 87 | 83 | 83 | 4.00 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:28:48 | DataFile Name : | 060AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9250 | 9323 | 9160 | 9244 | 0.89 | cps |
| Ytterbium | 172-1 | 127 | 143 | 107 | 126 | 14.62 | cps |
| Ytterbium | 172-2 | 40 | 47 | 57 | 48 | 17.56 | cps |
| Ytterbium | 176-1 | 2020 | 2110 | 1947 | 2026 | 4.04 | cps |
| Ytterbium | 176-2 | 337 | 310 | 307 | 318 | 5.17 | cps |
| Yttrium | 89-1 | 30076296 | 29912715 | 29641355 | 29876788 | 0.74 | cps |
| Yttrium | 89-2 | 2293720 | 2283534 | 2275131 | 2284128 | 0.41 | cps |
| Zinc | 66-2 | 1510 | 1703 | 1733 | 1649 | 7.35 | cps |
| Zirconium | 90-1 | 1980 | 1907 | 1840 | 1909 | 3.67 | cps |
| Zirconium | 91-1 | 347 | 413 | 347 | 369 | 10.43 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 51009 | 50885 | 50250 | 50715 | 0.80 | cps |
| Antimony | 121-1 | 1537 | 1693 | 1743 | 1658 | 6.50 | cps |
| Arsenic | 75-2 | 953 | 980 | 937 | 957 | 2.28 | cps |
| Barium | 135-1 | 177119 | 179649 | 179868 | 178879 | 0.85 | cps |
| Barium | 137-1 | 308702 | 311807 | 317771 | 312760 | 1.47 | cps |
| Beryllium | 9-1 | 410 | 459 | 424 | 431 | 5.83 | cps |
| Bismuth | 209-1 | 12219642 | 12305131 | 12430176 | 12318316 | 0.86 | cps |
| Bismuth | 209-2 | 5448425 | 5441545 | 5384461 | 5424810 | 0.65 | cps |
| Bromine | 81-1 | 272783 | 295491 | 305941 | 291405 | 5.82 | cps |
| Cadmium | 108-1 | 237 | 230 | 193 | 220 | 10.60 | cps |
| Cadmium | 106-1 | 9176 | 8639 | 8963 | 8926 | 3.03 | cps |
| Cadmium | 111-1 | 6541 | 6157 | 6412 | 6370 | 3.07 | cps |
| Calcium | 43-1 | 8607404 | 8826610 | 8637842 | 8690618 | 1.37 | cps |
| Calcium | 44-1 | 139269491 | 141601421 | 141854731 | 140908548 | 1.01 | cps |
| Carbon | 12-1 | 19392921 | 21006261 | 21742083 | 20713755 | 5.80 | cps |
| Carbon | 12-2 | 141530 | 142628 | 143634 | 142597 | 0.74 | cps |
| Chlorine | 35-1 | 3121992 | 3351220 | 3429743 | 3300985 | 4.84 | cps |
| Chlorine | 35-2 | 14918 | 14444 | 14938 | 14767 | 1.89 | cps |
| Chromium | 52-2 | 2094 | 1863 | 1777 | 1911 | 8.56 | cps |
| Cobalt | 59-2 | 1167 | 1073 | 963 | 1068 | 9.53 | cps |
| Copper | 63-2 | 8326 | 8319 | 8316 | 8320 | 0.06 | cps |
| Dysprosium | 156-1 | 63 | 37 | 47 | 49 | 27.55 | cps |
| Dysprosium | 156-2 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Erbium | 164-1 | 90 | 107 | 103 | 100 | 8.82 | cps |
| Erbium | 164-2 | 47 | 63 | 33 | 48 | 31.46 | cps |
| Gadolinium | 160-1 | 130 | 127 | 160 | 139 | 13.22 | cps |
| Gadolinium | 160-2 | 43 | 40 | 20 | 34 | 36.64 | cps |
| Holmium | 165-1 | 20171637 | 20587298 | 20547388 | 20435441 | 1.12 | cps |
| Holmium | 165-2 | 7719839 | 7629993 | 7632893 | 7660909 | 0.67 | cps |
| Indium | 115-1 | 16316606 | 16609398 | 16488930 | 16471645 | 0.89 | cps |
| Indium | 115-2 | 1741327 | 1772621 | 1728042 | 1747330 | 1.31 | cps |
| Iron | 54-2 | 4964 | 5251 | 5504 | 5240 | 5.16 | cps |
| Iron | 56-2 | 96578 | 95779 | 95141 | 95832 | 0.75 | cps |
| Iron | 57-2 | 2560 | 2607 | 2550 | 2572 | 1.18 | cps |
| Krypton | 83-1 | 310 | 283 | 293 | 296 | 4.56 | cps |
| Lead | 206-1 | 4504 | 4294 | 4327 | 4375 | 2.58 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3427 | 3427 | 3651 | 3502 | 3.68 | cps |
| Lead | 208-1 | 16584 | 16541 | 16684 | 16603 | 0.44 | cps |
| Lithium | 6-1 | 9734163 | 9742583 | 9818559 | 9765101 | 0.48 | cps |
| Magnesium | 24-2 | 9346 | 9390 | 9353 | 9363 | 0.25 | cps |
| Manganese | 55-2 | 4844 | 4878 | 5044 | 4922 | 2.18 | cps |
| Molybdenum | 94-1 | 229785 | 234992 | 231566 | 232114 | 1.14 | cps |
| Molybdenum | 95-1 | 397118 | 400331 | 405382 | 400944 | 1.04 | cps |
| Molybdenum | 96-1 | 426458 | 430221 | 432384 | 429688 | 0.70 | cps |
| Molybdenum | 97-1 | 248042 | 252665 | 249521 | 250076 | 0.94 | cps |
| Molybdenum | 98-1 | 638459 | 646263 | 643423 | 642715 | 0.61 | cps |
| Neodymium | 150-1 | 87 | 83 | 57 | 76 | 21.76 | cps |
| Neodymium | 150-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 372398 | 369297 | 376229 | 372641 | 0.93 | cps |
| Phosphorus | 31-2 | 1830 | 1737 | 1760 | 1776 | 2.74 | cps |
| Potassium | 39-2 | 11085011 | 10942522 | 11096639 | 11041391 | 0.78 | cps |
| Rhodium | 103-1 | 15156085 | 15604117 | 15400764 | 15386989 | 1.46 | cps |
| Rhodium | 103-2 | 6411505 | 6326984 | 6272323 | 6336937 | 1.11 | cps |
| Scandium | 45-1 | 12057838 | 12344412 | 12182663 | 12194971 | 1.18 | cps |
| Scandium | 45-2 | 247130 | 244482 | 246824 | 246145 | 0.59 | cps |
| Selenium | 82-1 | 403 | 410 | 400 | 404 | 1.26 | cps |
| Selenium | 77-2 | 3 | 7 | 10 | 7 | 50.03 | cps |
| Selenium | 78-2 | 33 | 17 | 43 | 31 | 43.29 | cps |
| Silicon | 28-1 | 34307882 | 35085873 | 35190027 | 34861261 | 1.38 | cps |
| Silver | 107-1 | 470 | 407 | 443 | 440 | 7.23 | cps |
| Silver | 109-1 | 293 | 273 | 363 | 310 | 15.24 | cps |
| Sodium | 23-2 | 18827695 | 19211877 | 19429419 | 19156330 | 1.59 | cps |
| Strontium | 86-1 | 7928918 | 8025625 | 7855429 | 7936658 | 1.08 | cps |
| Strontium | 88-1 | 68915072 | 69767942 | 69048386 | 69243800 | 0.66 | cps |
| Sulfur | 34-1 | 1958058 | 1947880 | 1948263 | 1951400 | 0.30 | cps |
| Terbium | 159-1 | 21046173 | 21301841 | 20908040 | 21085351 | 0.95 | cps |
| Terbium | 159-2 | 7308404 | 7324444 | 7350923 | 7327923 | 0.29 | cps |
| Thallium | 203-1 | 263 | 297 | 273 | 278 | 6.16 | cps |
| Thallium | 205-1 | 820 | 790 | 737 | 782 | 5.40 | cps |
| Tin | 118-1 | 13000 | 13093 | 12623 | 12905 | 1.93 | cps |
| Titanium | 47-1 | 2290 | 2190 | 2190 | 2224 | 2.60 | cps |
| Uranium | 238-1 | 90 | 87 | 87 | 88 | 2.19 | cps |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-02 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:32:00 | DataFile Name : | 061AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 8966 | 8993 | 9223 | 9061 | 1.56 | cps |
| Ytterbium | 172-1 | 130 | 150 | 77 | 119 | 31.88 | cps |
| Ytterbium | 172-2 | 77 | 53 | 67 | 66 | 17.86 | cps |
| Ytterbium | 176-1 | 2054 | 1997 | 2290 | 2114 | 7.36 | cps |
| Ytterbium | 176-2 | 287 | 310 | 297 | 298 | 3.93 | cps |
| Yttrium | 89-1 | 29558775 | 30467622 | 29157221 | 29727873 | 2.26 | cps |
| Yttrium | 89-2 | 2219143 | 2244246 | 2290573 | 2251321 | 1.61 | cps |
| Zinc | 66-2 | 1497 | 1583 | 1490 | 1523 | 3.42 | cps |
| Zirconium | 90-1 | 1720 | 1633 | 1433 | 1596 | 9.21 | cps |
| Zirconium | 91-1 | 260 | 333 | 323 | 306 | 13.01 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10441 | 10457 | 10527 | 10475 | 0.44 | cps |
| Antimony | 121-1 | 410 | 397 | 450 | 419 | 6.63 | cps |
| Arsenic | 75-2 | 183 | 180 | 167 | 177 | 4.99 | cps |
| Barium | 135-1 | 35841 | 37505 | 36048 | 36465 | 2.49 | cps |
| Barium | 137-1 | 64419 | 63913 | 63384 | 63906 | 0.81 | cps |
| Beryllium | 9-1 | 451 | 426 | 436 | 438 | 2.87 | cps |
| Bismuth | 209-1 | 12017786 | 12839851 | 13727509 | 12861715 | 6.65 | cps |
| Bismuth | 209-2 | 5629237 | 5656971 | 5667398 | 5651202 | 0.35 | cps |
| Bromine | 81-1 | 81743 | 82008 | 82783 | 82178 | 0.66 | cps |
| Cadmium | 108-1 | 43 | 53 | 43 | 47 | 12.37 | cps |
| Cadmium | 106-1 | 8626 | 8983 | 9880 | 9163 | 7.05 | cps |
| Cadmium | 111-1 | 6065 | 6324 | 6969 | 6453 | 7.22 | cps |
| Calcium | 43-1 | 1812339 | 1825508 | 1774957 | 1804268 | 1.45 | cps |
| Calcium | 44-1 | 29191487 | 29433005 | 28183229 | 28935907 | 2.29 | cps |
| Carbon | 12-1 | 10472095 | 10650680 | 10629338 | 10584038 | 0.92 | cps |
| Carbon | 12-2 | 67424 | 67886 | 67169 | 67493 | 0.54 | cps |
| Chlorine | 35-1 | 1399312 | 1419962 | 1368034 | 1395769 | 1.87 | cps |
| Chlorine | 35-2 | 5421 | 5728 | 5321 | 5490 | 3.86 | cps |
| Chromium | 52-2 | 1540 | 1583 | 1660 | 1595 | 3.81 | cps |
| Cobalt | 59-2 | 330 | 277 | 283 | 297 | 9.80 | cps |
| Copper | 63-2 | 6548 | 6405 | 6715 | 6556 | 2.37 | cps |
| Dysprosium | 156-1 | 10 | 23 | 13 | 16 | 44.60 | cps |
| Dysprosium | 156-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Erbium | 164-1 | 143 | 127 | 113 | 128 | 11.77 | cps |
| Erbium | 164-2 | 77 | 57 | 40 | 58 | 31.78 | cps |
| Gadolinium | 160-1 | 137 | 113 | 143 | 131 | 12.01 | cps |
| Gadolinium | 160-2 | 20 | 43 | 43 | 36 | 37.89 | cps |
| Holmium | 165-1 | 19369681 | 21164397 | 21947545 | 20827208 | 6.35 | cps |
| Holmium | 165-2 | 7605814 | 7733471 | 7715609 | 7684965 | 0.90 | cps |
| Indium | 115-1 | 15846492 | 17209775 | 17775105 | 16943791 | 5.85 | cps |
| Indium | 115-2 | 1782274 | 1766323 | 1779922 | 1776173 | 0.48 | cps |
| Iron | 54-2 | 1660 | 1830 | 1680 | 1723 | 5.39 | cps |
| Iron | 56-2 | 29394 | 29334 | 29019 | 29249 | 0.69 | cps |
| Iron | 57-2 | 780 | 810 | 780 | 790 | 2.19 | cps |
| Krypton | 83-1 | 300 | 253 | 297 | 283 | 9.19 | cps |
| Lead | 206-1 | 2097 | 2187 | 2174 | 2152 | 2.26 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1773 | 1873 | 1787 | 1811 | 3.00 | cps |
| Lead | 208-1 | 8321 | 8424 | 8455 | 8400 | 0.83 | cps |
| Lithium | 6-1 | 9489644 | 9868483 | 10550758 | 9969629 | 5.39 | cps |
| Magnesium | 24-2 | 3320 | 3374 | 3157 | 3284 | 3.44 | cps |
| Manganese | 55-2 | 1157 | 1090 | 1130 | 1126 | 2.98 | cps |
| Molybdenum | 94-1 | 47691 | 47384 | 48033 | 47703 | 0.68 | cps |
| Molybdenum | 95-1 | 80056 | 81722 | 80840 | 80872 | 1.03 | cps |
| Molybdenum | 96-1 | 87496 | 87809 | 88288 | 87864 | 0.45 | cps |
| Molybdenum | 97-1 | 50445 | 51639 | 51094 | 51059 | 1.17 | cps |
| Molybdenum | 98-1 | 130202 | 131197 | 130338 | 130579 | 0.41 | cps |
| Neodymium | 150-1 | 27 | 27 | 23 | 26 | 7.55 | cps |
| Neodymium | 150-2 | 13 | 0 | 10 | 8 | 89.21 | cps |
| Nickel | 60-2 | 78817 | 78036 | 78016 | 78289 | 0.58 | cps |
| Phosphorus | 31-2 | 483 | 330 | 440 | 418 | 18.92 | cps |
| Potassium | 39-2 | 2302421 | 2264655 | 2273920 | 2280332 | 0.86 | cps |
| Rhodium | 103-1 | 15054313 | 15907816 | 17407594 | 16123241 | 7.39 | cps |
| Rhodium | 103-2 | 6449399 | 6646883 | 6532677 | 6542986 | 1.52 | cps |
| Scandium | 45-1 | 11687209 | 12393828 | 12918601 | 12333213 | 5.01 | cps |
| Scandium | 45-2 | 242845 | 250183 | 246838 | 246622 | 1.49 | cps |
| Selenium | 82-1 | 97 | 90 | 107 | 98 | 8.58 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 27 | 0 | 12 | 110.23 | cps |
| Silicon | 28-1 | 7596859 | 7724092 | 7545350 | 7622101 | 1.21 | cps |
| Silver | 107-1 | 337 | 353 | 320 | 337 | 4.95 | cps |
| Silver | 109-1 | 163 | 187 | 187 | 179 | 7.53 | cps |
| Sodium | 23-2 | 3954402 | 4053029 | 3998483 | 4001971 | 1.23 | cps |
| Strontium | 86-1 | 1647764 | 1633223 | 1627864 | 1636284 | 0.63 | cps |
| Strontium | 88-1 | 14115455 | 14217717 | 14094712 | 14142628 | 0.47 | cps |
| Sulfur | 34-1 | 1246788 | 1246164 | 1235200 | 1242717 | 0.52 | cps |
| Terbium | 159-1 | 20354999 | 21232266 | 22741196 | 21442821 | 5.63 | cps |
| Terbium | 159-2 | 7380029 | 7404774 | 7451490 | 7412098 | 0.49 | cps |
| Thallium | 203-1 | 220 | 253 | 193 | 222 | 13.53 | cps |
| Thallium | 205-1 | 600 | 507 | 537 | 548 | 8.70 | cps |
| Tin | 118-1 | 4461 | 4327 | 4501 | 4430 | 2.05 | cps |
| Titanium | 47-1 | 613 | 780 | 700 | 698 | 11.95 | cps |
| Uranium | 238-1 | 37 | 43 | 37 | 39 | 9.89 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 15:35:18 | DataFile Name : | 062AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1973 | 1823 | 1787 | 1861 | 5.31 | cps |
| Ytterbium | 172-1 | 80 | 133 | 117 | 110 | 24.81 | cps |
| Ytterbium | 172-2 | 57 | 67 | 53 | 59 | 11.79 | cps |
| Ytterbium | 176-1 | 2027 | 1930 | 2280 | 2079 | 8.70 | cps |
| Ytterbium | 176-2 | 300 | 280 | 327 | 302 | 7.75 | cps |
| Yttrium | 89-1 | 28559801 | 30089620 | 33069555 | 30572992 | 7.50 | cps |
| Yttrium | 89-2 | 2227234 | 2279420 | 2267584 | 2258079 | 1.21 | cps |
| Zinc | 66-2 | 677 | 650 | 633 | 653 | 3.35 | cps |
| Zirconium | 90-1 | 983 | 1060 | 1050 | 1031 | 4.04 | cps |
| Zirconium | 91-1 | 217 | 233 | 257 | 236 | 8.53 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 206486 | 204848 | 203280 | 204871 | 0.78 | cps |
| Antimony | 121-1 | 2143208 | 2172044 | 2166188 | 2160480 | 0.71 | cps |
| Arsenic | 75-2 | 15872 | 16627 | 16393 | 16297 | 2.37 | cps |
| Barium | 135-1 | 8774332 | 8974217 | 9089665 | 8946071 | 1.78 | cps |
| Barium | 137-1 | 15146524 | 15339249 | 15389074 | 15291615 | 0.84 | cps |
| Beryllium | 9-1 | 341701 | 347289 | 346898 | 345296 | 0.90 | cps |
| Bismuth | 209-1 | 10629415 | 12101710 | 12220287 | 11650471 | 7.61 | cps |
| Bismuth | 209-2 | 5348113 | 5279124 | 5354874 | 5327370 | 0.79 | cps |
| Bromine | 81-1 | 252617 | 290059 | 303540 | 282072 | 9.35 | cps |
| Cadmium | 108-1 | 14224 | 14554 | 14534 | 14438 | 1.28 | cps |
| Cadmium | 106-1 | 27267 | 28259 | 28620 | 28049 | 2.50 | cps |
| Cadmium | 111-1 | 220266 | 222304 | 222526 | 221698 | 0.56 | cps |
| Calcium | 43-1 | 8205409 | 8269119 | 8173855 | 8216128 | 0.59 | cps |
| Calcium | 44-1 | 133181541 | 133698818 | 131877075 | 132919145 | 0.71 | cps |
| Carbon | 12-1 | 19495893 | 21439872 | 22954203 | 21296656 | 8.14 | cps |
| Carbon | 12-2 | 154011 | 154462 | 158828 | 155767 | 1.71 | cps |
| Chlorine | 35-1 | 34185178 | 37360271 | 38218883 | 36588111 | 5.81 | cps |
| Chlorine | 35-2 | 166498 | 168641 | 168447 | 167862 | 0.71 | cps |
| Chromium | 52-2 | 884876 | 881649 | 878031 | 881519 | 0.39 | cps |
| Cobalt | 59-2 | 4279330 | 4285210 | 4286268 | 4283603 | 0.09 | cps |
| Copper | 63-2 | 1706886 | 1634674 | 1693696 | 1678418 | 2.29 | cps |
| Dysprosium | 156-1 | 110 | 103 | 137 | 117 | 15.12 | cps |
| Dysprosium | 156-2 | 20 | 3 | 20 | 14 | 66.64 | cps |
| Erbium | 164-1 | 110 | 133 | 130 | 124 | 10.14 | cps |
| Erbium | 164-2 | 57 | 40 | 30 | 42 | 31.91 | cps |
| Gadolinium | 160-1 | 93 | 123 | 177 | 131 | 32.19 | cps |
| Gadolinium | 160-2 | 40 | 40 | 50 | 43 | 13.32 | cps |
| Holmium | 165-1 | 17743254 | 20064471 | 19857448 | 19221724 | 6.68 | cps |
| Holmium | 165-2 | 7420821 | 7605075 | 7558730 | 7528209 | 1.27 | cps |
| Indium | 115-1 | 14248805 | 16515539 | 16413857 | 15726067 | 8.14 | cps |
| Indium | 115-2 | 1744416 | 1740245 | 1702200 | 1728954 | 1.35 | cps |
| Iron | 54-2 | 211087 | 211306 | 207712 | 210035 | 0.96 | cps |
| Iron | 56-2 | 3508788 | 3420109 | 3470773 | 3466556 | 1.28 | cps |
| Iron | 57-2 | 84391 | 83368 | 83995 | 83918 | 0.61 | cps |
| Krypton | 83-1 | 237 | 287 | 280 | 268 | 10.14 | cps |
| Lead | 206-1 | 270798 | 276798 | 277936 | 275177 | 1.39 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 231553 | 237201 | 240842 | 236532 | 1.98 | cps |
| Lead | 208-1 | 1077132 | 1096402 | 1105734 | 1093090 | 1.33 | cps |
| Lithium | 6-1 | 8440957 | 9546862 | 9286359 | 9091393 | 6.36 | cps |
| Magnesium | 24-2 | 9110 | 9150 | 8943 | 9067 | 1.21 | cps |
| Manganese | 55-2 | 874047 | 868127 | 861665 | 867946 | 0.71 | cps |
| Molybdenum | 94-1 | 216112 | 220778 | 223193 | 220028 | 1.64 | cps |
| Molybdenum | 95-1 | 375484 | 375792 | 380206 | 377160 | 0.70 | cps |
| Molybdenum | 96-1 | 400410 | 403698 | 408998 | 404369 | 1.07 | cps |
| Molybdenum | 97-1 | 236179 | 238160 | 238227 | 237522 | 0.49 | cps |
| Molybdenum | 98-1 | 603625 | 609898 | 610809 | 608110 | 0.64 | cps |
| Neodymium | 150-1 | 663 | 557 | 603 | 608 | 8.80 | cps |
| Neodymium | 150-2 | 30 | 33 | 27 | 30 | 11.10 | cps |
| Nickel | 60-2 | 1566855 | 1473530 | 1563661 | 1534682 | 3.45 | cps |
| Phosphorus | 31-2 | 1943 | 1887 | 2007 | 1946 | 3.09 | cps |
| Potassium | 39-2 | 10390345 | 10355865 | 10523440 | 10423217 | 0.85 | cps |
| Rhodium | 103-1 | 13199707 | 14749572 | 14892827 | 14280702 | 6.57 | cps |
| Rhodium | 103-2 | 6205777 | 6256010 | 6226150 | 6229312 | 0.41 | cps |
| Scandium | 45-1 | 10316228 | 11724120 | 11988744 | 11343031 | 7.93 | cps |
| Scandium | 45-2 | 240003 | 242314 | 239415 | 240577 | 0.64 | cps |
| Selenium | 82-1 | 5385 | 5388 | 5595 | 5456 | 2.21 | cps |
| Selenium | 77-2 | 150 | 90 | 93 | 111 | 30.35 | cps |
| Selenium | 78-2 | 313 | 363 | 343 | 340 | 7.40 | cps |
| Silicon | 28-1 | 33002089 | 33290110 | 33378104 | 33223434 | 0.59 | cps |
| Silver | 107-1 | 1051542 | 1073142 | 1082283 | 1068989 | 1.48 | cps |
| Silver | 109-1 | 995826 | 1025448 | 1031536 | 1017603 | 1.88 | cps |
| Sodium | 23-2 | 18407238 | 18264241 | 18173316 | 18281598 | 0.65 | cps |
| Strontium | 86-1 | 7627821 | 7541444 | 7569162 | 7579476 | 0.58 | cps |
| Strontium | 88-1 | 65252487 | 65023049 | 65266169 | 65180568 | 0.21 | cps |
| Sulfur | 34-1 | 1825931 | 1804450 | 1819519 | 1816633 | 0.61 | cps |
| Terbium | 159-1 | 18059157 | 20621819 | 21072883 | 19917953 | 8.16 | cps |
| Terbium | 159-2 | 7385558 | 7241760 | 7169149 | 7265489 | 1.52 | cps |
| Thallium | 203-1 | 821189 | 831817 | 846745 | 833250 | 1.54 | cps |
| Thallium | 205-1 | 2056671 | 2123112 | 2085118 | 2088300 | 1.60 | cps |
| Tin | 118-1 | 12409 | 12312 | 12609 | 12444 | 1.22 | cps |
| Titanium | 47-1 | 2537 | 2394 | 2324 | 2418 | 4.50 | cps |
| Uranium | 238-1 | 83 | 77 | 103 | 88 | 15.81 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-03 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:38:29 | DataFile Name : | 063AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1820966 | 1757141 | 1790555 | 1789554 | 1.78 | cps |
| Ytterbium | 172-1 | 117 | 130 | 147 | 131 | 11.46 | cps |
| Ytterbium | 172-2 | 40 | 43 | 70 | 51 | 32.17 | cps |
| Ytterbium | 176-1 | 1863 | 1967 | 2047 | 1959 | 4.69 | cps |
| Ytterbium | 176-2 | 273 | 393 | 397 | 354 | 19.82 | cps |
| Yttrium | 89-1 | 25882406 | 28836703 | 29224585 | 27981232 | 6.53 | cps |
| Yttrium | 89-2 | 2182404 | 2233132 | 2219327 | 2211621 | 1.19 | cps |
| Zinc | 66-2 | 333062 | 332541 | 331252 | 332285 | 0.28 | cps |
| Zirconium | 90-1 | 1877 | 2004 | 1967 | 1949 | 3.34 | cps |
| Zirconium | 91-1 | 583 | 527 | 523 | 544 | 6.19 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 867 | 933 | 970 | 923 | 5.67 | cps |
| Antimony | 121-1 | 3160 | 3117 | 2927 | 3068 | 4.05 | cps |
| Arsenic | 75-2 | 210 | 220 | 193 | 208 | 6.48 | cps |
| Barium | 135-1 | 111323 | 111696 | 111215 | 111411 | 0.23 | cps |
| Barium | 137-1 | 193543 | 194096 | 194628 | 194089 | 0.28 | cps |
| Beryllium | 9-1 | 507 | 456 | 512 | 492 | 6.33 | cps |
| Bismuth | 209-1 | 10029825 | 11612196 | 11695319 | 11112447 | 8.45 | cps |
| Bismuth | 209-2 | 5290793 | 5116012 | 5113035 | 5173280 | 1.97 | cps |
| Bromine | 81-1 | 146021 | 165096 | 174133 | 161750 | 8.87 | cps |
| Cadmium | 108-1 | 47 | 37 | 40 | 41 | 12.39 | cps |
| Cadmium | 106-1 | 7365 | 8229 | 8062 | 7886 | 5.81 | cps |
| Cadmium | 111-1 | 5183 | 5801 | 5656 | 5547 | 5.83 | cps |
| Calcium | 43-1 | 19613453 | 19910811 | 20065216 | 19863160 | 1.16 | cps |
| Calcium | 44-1 | 318761255 | 322633889 | 319875189 | 320423444 | 0.62 | cps |
| Carbon | 12-1 | 10452958 | 10973764 | 11326268 | 10917663 | 4.02 | cps |
| Carbon | 12-2 | 76749 | 76853 | 77804 | 77135 | 0.75 | cps |
| Chlorine | 35-1 | 5160127 | 5223725 | 5156623 | 5180158 | 0.73 | cps |
| Chlorine | 35-2 | 20785 | 20925 | 20508 | 20739 | 1.02 | cps |
| Chromium | 52-2 | 8016 | 7705 | 8226 | 7982 | 3.28 | cps |
| Cobalt | 59-2 | 683 | 713 | 630 | 676 | 6.25 | cps |
| Copper | 63-2 | 4768 | 4768 | 4871 | 4802 | 1.24 | cps |
| Dysprosium | 156-1 | 163 | 217 | 130 | 170 | 25.72 | cps |
| Dysprosium | 156-2 | 80 | 40 | 43 | 54 | 40.77 | cps |
| Erbium | 164-1 | 217 | 287 | 177 | 227 | 24.56 | cps |
| Erbium | 164-2 | 103 | 90 | 73 | 89 | 16.91 | cps |
| Gadolinium | 160-1 | 207 | 273 | 200 | 227 | 17.89 | cps |
| Gadolinium | 160-2 | 77 | 60 | 67 | 68 | 12.38 | cps |
| Holmium | 165-1 | 17165292 | 20252962 | 20104986 | 19174413 | 9.08 | cps |
| Holmium | 165-2 | 7588783 | 7457746 | 7479007 | 7508512 | 0.94 | cps |
| Indium | 115-1 | 13716789 | 16148253 | 16049263 | 15304769 | 8.99 | cps |
| Indium | 115-2 | 1709036 | 1703102 | 1662071 | 1691403 | 1.51 | cps |
| Iron | 54-2 | 60307 | 61632 | 61984 | 61307 | 1.44 | cps |
| Iron | 56-2 | 1123197 | 1128637 | 1126042 | 1125958 | 0.24 | cps |
| Iron | 57-2 | 28656 | 28579 | 28719 | 28651 | 0.25 | cps |
| Krypton | 83-1 | 263 | 340 | 290 | 298 | 13.07 | cps |
| Lead | 206-1 | 18036 | 18196 | 18366 | 18200 | 0.91 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 15176 | 15312 | 15022 | 15170 | 0.96 | cps |
| Lead | 208-1 | 69974 | 70832 | 70040 | 70282 | 0.68 | cps |
| Lithium | 6-1 | 8162926 | 9330983 | 9259190 | 8917700 | 7.34 | cps |
| Magnesium | 24-2 | 26578447 | 26226355 | 26741717 | 26515507 | 0.99 | cps |
| Manganese | 55-2 | 34575 | 35153 | 33883 | 34537 | 1.84 | cps |
| Molybdenum | 94-1 | 24976 | 24725 | 25560 | 25087 | 1.71 | cps |
| Molybdenum | 95-1 | 41502 | 41422 | 41388 | 41437 | 0.14 | cps |
| Molybdenum | 96-1 | 44615 | 45424 | 45431 | 45156 | 1.04 | cps |
| Molybdenum | 97-1 | 25884 | 25824 | 26175 | 25961 | 0.72 | cps |
| Molybdenum | 98-1 | 66006 | 68250 | 67272 | 67176 | 1.67 | cps |
| Neodymium | 150-1 | 263 | 243 | 243 | 250 | 4.62 | cps |
| Neodymium | 150-2 | 57 | 57 | 40 | 51 | 18.83 | cps |
| Nickel | 60-2 | 1957 | 1650 | 1893 | 1833 | 8.83 | cps |
| Phosphorus | 31-2 | 160 | 153 | 130 | 148 | 10.66 | cps |
| Potassium | 39-2 | 573526 | 581295 | 580320 | 578380 | 0.73 | cps |
| Rhodium | 103-1 | 12431153 | 14412557 | 14598026 | 13813912 | 8.69 | cps |
| Rhodium | 103-2 | 6074454 | 6089366 | 5997231 | 6053684 | 0.82 | cps |
| Scandium | 45-1 | 10022299 | 11694226 | 11930234 | 11215587 | 9.27 | cps |
| Scandium | 45-2 | 239084 | 236662 | 238903 | 238216 | 0.57 | cps |
| Selenium | 82-1 | 140 | 23 | 127 | 97 | 66.06 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 13 | 20 | 10 | 14 | 35.26 | cps |
| Silicon | 28-1 | 71572857 | 71361751 | 71041331 | 71325313 | 0.38 | cps |
| Silver | 107-1 | 1117 | 800 | 713 | 877 | 24.22 | cps |
| Silver | 109-1 | 823 | 680 | 590 | 698 | 16.87 | cps |
| Sodium | 23-2 | 12262323 | 12225616 | 12187861 | 12225267 | 0.30 | cps |
| Strontium | 86-1 | 59075876 | 59275779 | 59575077 | 59308911 | 0.42 | cps |
| Strontium | 88-1 | 502609433 | 512354059 | 512838406 | 509267299 | 1.13 | cps |
| Sulfur | 34-1 | 29190549 | 29553865 | 29728945 | 29491119 | 0.93 | cps |
| Terbium | 159-1 | 17807660 | 20201653 | 20553496 | 19520936 | 7.65 | cps |
| Terbium | 159-2 | 7297728 | 7137780 | 7127378 | 7187628 | 1.33 | cps |
| Thallium | 203-1 | 380 | 363 | 380 | 374 | 2.57 | cps |
| Thallium | 205-1 | 867 | 820 | 767 | 818 | 6.12 | cps |
| Tin | 118-1 | 8676 | 8956 | 8536 | 8723 | 2.45 | cps |
| Titanium | 47-1 | 2170 | 2210 | 2260 | 2214 | 2.04 | cps |
| Uranium | 238-1 | 1728164 | 1744616 | 1775057 | 1749279 | 1.36 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-04 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2981 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:41:35 | DataFile Name : | 064AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 293 | 330 | 253 | 292 | 13.12 | cps |
| Ytterbium | 172-1 | 183 | 177 | 200 | 187 | 6.44 | cps |
| Ytterbium | 172-2 | 60 | 90 | 67 | 72 | 21.81 | cps |
| Ytterbium | 176-1 | 1783 | 1937 | 1827 | 1849 | 4.28 | cps |
| Ytterbium | 176-2 | 293 | 287 | 347 | 309 | 10.65 | cps |
| Yttrium | 89-1 | 24805636 | 28674485 | 28642017 | 27374046 | 8.13 | cps |
| Yttrium | 89-2 | 2204045 | 2187255 | 2161138 | 2184146 | 0.99 | cps |
| Zinc | 66-2 | 760 | 830 | 847 | 812 | 5.66 | cps |
| Zirconium | 90-1 | 2610 | 2884 | 2940 | 2811 | 6.28 | cps |
| Zirconium | 91-1 | 583 | 660 | 647 | 630 | 6.50 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1067 | 1007 | 1007 | 1027 | 3.37 | cps |
| Antimony | 121-1 | 957 | 777 | 980 | 904 | 12.30 | cps |
| Arsenic | 75-2 | 183 | 157 | 177 | 172 | 8.06 | cps |
| Barium | 135-1 | 197470 | 201298 | 203353 | 200707 | 1.49 | cps |
| Barium | 137-1 | 344782 | 350593 | 353759 | 349711 | 1.30 | cps |
| Beryllium | 9-1 | 460 | 454 | 467 | 460 | 1.50 | cps |
| Bismuth | 209-1 | 11994156 | 11892915 | 11733763 | 11873611 | 1.11 | cps |
| Bismuth | 209-2 | 5340426 | 5153345 | 5299545 | 5264439 | 1.87 | cps |
| Bromine | 81-1 | 106316 | 117907 | 122956 | 115726 | 7.37 | cps |
| Cadmium | 108-1 | 30 | 30 | 47 | 36 | 27.07 | cps |
| Cadmium | 106-1 | 9036 | 8376 | 8179 | 8530 | 5.26 | cps |
| Cadmium | 111-1 | 6328 | 5875 | 5723 | 5975 | 5.27 | cps |
| Calcium | 43-1 | 23234787 | 23111305 | 23631488 | 23325860 | 1.17 | cps |
| Calcium | 44-1 | 371197808 | 373848968 | 378829861 | 374625546 | 1.03 | cps |
| Carbon | 12-1 | 9604154 | 10618138 | 11095872 | 10439388 | 7.30 | cps |
| Carbon | 12-2 | 75533 | 76946 | 77188 | 76556 | 1.17 | cps |
| Chlorine | 35-1 | 3621422 | 3771384 | 3950182 | 3780996 | 4.35 | cps |
| Chlorine | 35-2 | 16042 | 15862 | 16466 | 16124 | 1.92 | cps |
| Chromium | 52-2 | 3524 | 3614 | 3764 | 3634 | 3.34 | cps |
| Cobalt | 59-2 | 1357 | 1367 | 1327 | 1350 | 1.54 | cps |
| Copper | 63-2 | 9530 | 9563 | 9607 | 9567 | 0.40 | cps |
| Dysprosium | 156-1 | 227 | 223 | 183 | 211 | 11.42 | cps |
| Dysprosium | 156-2 | 67 | 83 | 57 | 69 | 19.55 | cps |
| Erbium | 164-1 | 273 | 300 | 347 | 307 | 12.10 | cps |
| Erbium | 164-2 | 103 | 133 | 137 | 124 | 14.75 | cps |
| Gadolinium | 160-1 | 287 | 347 | 287 | 307 | 11.30 | cps |
| Gadolinium | 160-2 | 70 | 117 | 100 | 96 | 24.75 | cps |
| Holmium | 165-1 | 20565699 | 20078539 | 20297095 | 20313778 | 1.20 | cps |
| Holmium | 165-2 | 7569314 | 7551157 | 7731532 | 7617334 | 1.30 | cps |
| Indium | 115-1 | 16591881 | 16003133 | 16125038 | 16240017 | 1.91 | cps |
| Indium | 115-2 | 1733233 | 1725935 | 1740712 | 1733294 | 0.43 | cps |
| Iron | 54-2 | 48709 | 48157 | 48325 | 48397 | 0.58 | cps |
| Iron | 56-2 | 886438 | 886923 | 881352 | 884904 | 0.35 | cps |
| Iron | 57-2 | 22768 | 22658 | 22528 | 22651 | 0.53 | cps |
| Krypton | 83-1 | 310 | 320 | 323 | 318 | 2.18 | cps |
| Lead | 206-1 | 2114 | 2310 | 2544 | 2322 | 9.27 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2024 | 1954 | 1980 | 1986 | 1.78 | cps |
| Lead | 208-1 | 8981 | 9278 | 9565 | 9275 | 3.15 | cps |
| Lithium | 6-1 | 9552308 | 9410674 | 9481924 | 9481635 | 0.75 | cps |
| Magnesium | 24-2 | 27036670 | 26738758 | 27122050 | 26965826 | 0.75 | cps |
| Manganese | 55-2 | 556218 | 556008 | 547902 | 553376 | 0.86 | cps |
| Molybdenum | 94-1 | 3164 | 3510 | 3274 | 3316 | 5.34 | cps |
| Molybdenum | 95-1 | 2884 | 2997 | 3070 | 2984 | 3.15 | cps |
| Molybdenum | 96-1 | 3304 | 3274 | 3284 | 3287 | 0.46 | cps |
| Molybdenum | 97-1 | 1850 | 1783 | 1847 | 1827 | 2.06 | cps |
| Molybdenum | 98-1 | 4334 | 4674 | 4861 | 4623 | 5.78 | cps |
| Neodymium | 150-1 | 220 | 273 | 233 | 242 | 11.46 | cps |
| Neodymium | 150-2 | 53 | 43 | 60 | 52 | 16.07 | cps |
| Nickel | 60-2 | 1567 | 1657 | 1777 | 1667 | 6.32 | cps |
| Phosphorus | 31-2 | 390 | 367 | 357 | 371 | 4.61 | cps |
| Potassium | 39-2 | 613020 | 611003 | 608986 | 611003 | 0.33 | cps |
| Rhodium | 103-1 | 15411488 | 14966114 | 14858260 | 15078621 | 1.94 | cps |
| Rhodium | 103-2 | 6169616 | 6054413 | 6194313 | 6139447 | 1.22 | cps |
| Scandium | 45-1 | 11947805 | 11842250 | 11834265 | 11874773 | 0.53 | cps |
| Scandium | 45-2 | 241987 | 240019 | 243636 | 241881 | 0.75 | cps |
| Selenium | 82-1 | 70 | 93 | 50 | 71 | 30.50 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 17 | 23 | 7 | 16 | 53.90 | cps |
| Silicon | 28-1 | 80865965 | 83245639 | 82916120 | 82342575 | 1.57 | cps |
| Silver | 107-1 | 580 | 577 | 463 | 540 | 12.30 | cps |
| Silver | 109-1 | 253 | 627 | 280 | 387 | 53.89 | cps |
| Sodium | 23-2 | 12549993 | 12438114 | 12336639 | 12441582 | 0.86 | cps |
| Strontium | 86-1 | 76961397 | 78891914 | 80628414 | 78827242 | 2.33 | cps |
| Strontium | 88-1 | 668011417 | 686834376 | 687507670 | 680784488 | 1.63 | cps |
| Sulfur | 34-1 | 32725895 | 32987114 | 33707394 | 33140134 | 1.53 | cps |
| Terbium | 159-1 | 20681710 | 20690758 | 20552770 | 20641746 | 0.37 | cps |
| Terbium | 159-2 | 7336743 | 7182434 | 7218675 | 7245951 | 1.11 | cps |
| Thallium | 203-1 | 333 | 290 | 287 | 303 | 8.58 | cps |
| Thallium | 205-1 | 637 | 640 | 683 | 653 | 3.99 | cps |
| Tin | 118-1 | 6795 | 6895 | 6962 | 6884 | 1.22 | cps |
| Titanium | 47-1 | 2560 | 2927 | 2737 | 2741 | 6.69 | cps |
| Uranium | 238-1 | 8523 | 8640 | 8613 | 8592 | 0.71 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-05 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2982 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:44:47 | DataFile Name : | 065AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 433 | 463 | 443 | 447 | 3.42 | cps |
| Ytterbium | 172-1 | 183 | 223 | 203 | 203 | 9.84 | cps |
| Ytterbium | 172-2 | 83 | 103 | 103 | 97 | 11.95 | cps |
| Ytterbium | 176-1 | 2037 | 2027 | 2074 | 2046 | 1.20 | cps |
| Ytterbium | 176-2 | 333 | 350 | 370 | 351 | 5.23 | cps |
| Yttrium | 89-1 | 30038089 | 29207351 | 28646688 | 29297376 | 2.39 | cps |
| Yttrium | 89-2 | 2237284 | 2213916 | 2278704 | 2243302 | 1.46 | cps |
| Zinc | 66-2 | 757 | 853 | 837 | 816 | 6.34 | cps |
| Zirconium | 90-1 | 4341 | 4591 | 4244 | 4392 | 4.07 | cps |
| Zirconium | 91-1 | 1023 | 967 | 1100 | 1030 | 6.50 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 663 | 533 | 627 | 608 | 11.03 | cps |
| Antimony | 121-1 | 303 | 347 | 337 | 329 | 6.90 | cps |
| Arsenic | 75-2 | 33 | 27 | 20 | 27 | 24.99 | cps |
| Barium | 135-1 | 44509 | 46112 | 46322 | 45648 | 2.17 | cps |
| Barium | 137-1 | 79750 | 79344 | 80430 | 79841 | 0.69 | cps |
| Beryllium | 9-1 | 482 | 512 | 522 | 506 | 4.12 | cps |
| Bismuth | 209-1 | 11293912 | 11686915 | 11947854 | 11642894 | 2.83 | cps |
| Bismuth | 209-2 | 4789926 | 4858719 | 5015425 | 4888023 | 2.36 | cps |
| Bromine | 81-1 | 213177 | 267635 | 298678 | 259830 | 16.66 | cps |
| Cadmium | 108-1 | 43 | 40 | 50 | 44 | 11.46 | cps |
| Cadmium | 106-1 | 8566 | 8319 | 8733 | 8539 | 2.44 | cps |
| Cadmium | 111-1 | 6006 | 5826 | 6121 | 5984 | 2.49 | cps |
| Calcium | 43-1 | 27411239 | 27523835 | 27431215 | 27455430 | 0.22 | cps |
| Calcium | 44-1 | 438306407 | 445778767 | 440349260 | 441478145 | 0.87 | cps |
| Carbon | 12-1 | 9966107 | 10856662 | 11249835 | 10690868 | 6.15 | cps |
| Carbon | 12-2 | 76330 | 76038 | 77325 | 76564 | 0.88 | cps |
| Chlorine | 35-1 | 11920055 | 13439485 | 13919716 | 13093086 | 7.97 | cps |
| Chlorine | 35-2 | 60385 | 60205 | 61148 | 60579 | 0.83 | cps |
| Chromium | 52-2 | 3124 | 3447 | 3414 | 3328 | 5.34 | cps |
| Cobalt | 59-2 | 820 | 833 | 777 | 810 | 3.66 | cps |
| Copper | 63-2 | 5665 | 5554 | 5898 | 5706 | 3.07 | cps |
| Dysprosium | 156-1 | 217 | 233 | 203 | 218 | 6.90 | cps |
| Dysprosium | 156-2 | 70 | 77 | 83 | 77 | 8.69 | cps |
| Erbium | 164-1 | 327 | 303 | 393 | 341 | 13.69 | cps |
| Erbium | 164-2 | 143 | 97 | 110 | 117 | 20.60 | cps |
| Gadolinium | 160-1 | 267 | 363 | 337 | 322 | 15.49 | cps |
| Gadolinium | 160-2 | 97 | 110 | 157 | 121 | 26.01 | cps |
| Holmium | 165-1 | 19445221 | 19871773 | 20628346 | 19981780 | 3.00 | cps |
| Holmium | 165-2 | 7016588 | 7130854 | 7089292 | 7078911 | 0.82 | cps |
| Indium | 115-1 | 15665734 | 16052878 | 16462520 | 16060377 | 2.48 | cps |
| Indium | 115-2 | 1497915 | 1572114 | 1625267 | 1565099 | 4.09 | cps |
| Iron | 54-2 | 36934 | 36346 | 36583 | 36621 | 0.81 | cps |
| Iron | 56-2 | 669796 | 668919 | 672172 | 670296 | 0.25 | cps |
| Iron | 57-2 | 17568 | 17571 | 18412 | 17850 | 2.73 | cps |
| Krypton | 83-1 | 280 | 360 | 283 | 308 | 14.70 | cps |
| Lead | 206-1 | 3104 | 3654 | 3517 | 3425 | 8.36 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2717 | 2744 | 2810 | 2757 | 1.74 | cps |
| Lead | 208-1 | 12966 | 13443 | 13493 | 13301 | 2.19 | cps |
| Lithium | 6-1 | 9009768 | 9205802 | 9856923 | 9357498 | 4.74 | cps |
| Magnesium | 24-2 | 33522159 | 33875573 | 32860519 | 33419417 | 1.54 | cps |
| Manganese | 55-2 | 60370 | 60561 | 61083 | 60671 | 0.61 | cps |
| Molybdenum | 94-1 | 2727 | 3184 | 2760 | 2890 | 8.82 | cps |
| Molybdenum | 95-1 | 2490 | 2660 | 2517 | 2556 | 3.58 | cps |
| Molybdenum | 96-1 | 2484 | 2860 | 2644 | 2663 | 7.10 | cps |
| Molybdenum | 97-1 | 1403 | 1473 | 1443 | 1440 | 2.44 | cps |
| Molybdenum | 98-1 | 3914 | 3714 | 3604 | 3744 | 4.20 | cps |
| Neodymium | 150-1 | 207 | 180 | 187 | 191 | 7.26 | cps |
| Neodymium | 150-2 | 40 | 47 | 97 | 61 | 50.68 | cps |
| Nickel | 60-2 | 1747 | 1750 | 1657 | 1718 | 3.08 | cps |
| Phosphorus | 31-2 | 140 | 123 | 147 | 137 | 8.79 | cps |
| Potassium | 39-2 | 1166762 | 1166861 | 1163899 | 1165841 | 0.14 | cps |
| Rhodium | 103-1 | 14195927 | 14611877 | 14774789 | 14527531 | 2.05 | cps |
| Rhodium | 103-2 | 5647157 | 5687414 | 5766387 | 5700319 | 1.06 | cps |
| Scandium | 45-1 | 11430823 | 11751614 | 12317044 | 11833161 | 3.79 | cps |
| Scandium | 45-2 | 224574 | 225738 | 231809 | 227374 | 1.71 | cps |
| Selenium | 82-1 | 207 | 77 | 187 | 157 | 44.68 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 23 | 7 | 33 | 21 | 63.80 | cps |
| Silicon | 28-1 | 103509678 | 105909532 | 104995498 | 104804903 | 1.16 | cps |
| Silver | 107-1 | 600 | 647 | 713 | 653 | 8.72 | cps |
| Silver | 109-1 | 277 | 360 | 400 | 346 | 18.21 | cps |
| Sodium | 23-2 | 41466455 | 41603630 | 41302385 | 41457490 | 0.36 | cps |
| Strontium | 86-1 | 74254294 | 74579014 | 74463981 | 74432429 | 0.22 | cps |
| Strontium | 88-1 | 630080897 | 646211404 | 647045657 | 641112653 | 1.49 | cps |
| Sulfur | 34-1 | 37889107 | 38553770 | 38242534 | 38228471 | 0.87 | cps |
| Terbium | 159-1 | 19374178 | 20374854 | 21248278 | 20332437 | 4.61 | cps |
| Terbium | 159-2 | 6650780 | 6705489 | 6913048 | 6756439 | 2.05 | cps |
| Thallium | 203-1 | 267 | 333 | 253 | 284 | 15.07 | cps |
| Thallium | 205-1 | 630 | 760 | 747 | 712 | 10.04 | cps |
| Tin | 118-1 | 9110 | 9280 | 9216 | 9202 | 0.93 | cps |
| Titanium | 47-1 | 2274 | 2300 | 2264 | 2279 | 0.83 | cps |
| Uranium | 238-1 | 4217 | 4431 | 4237 | 4295 | 2.74 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-06 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2983 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:48:02 | DataFile Name : | 066AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 460 | 407 | 443 | 437 | 6.25 | cps |
| Ytterbium | 172-1 | 163 | 230 | 160 | 184 | 21.41 | cps |
| Ytterbium | 172-2 | 73 | 70 | 60 | 68 | 10.24 | cps |
| Ytterbium | 176-1 | 1867 | 1837 | 1970 | 1891 | 3.70 | cps |
| Ytterbium | 176-2 | 250 | 293 | 333 | 292 | 14.26 | cps |
| Yttrium | 89-1 | 27698289 | 29222907 | 30029094 | 28983430 | 4.08 | cps |
| Yttrium | 89-2 | 2069226 | 2061569 | 2133807 | 2088201 | 1.90 | cps |
| Zinc | 66-2 | 1567 | 1497 | 1430 | 1498 | 4.56 | cps |
| Zirconium | 90-1 | 3847 | 3821 | 3904 | 3857 | 1.10 | cps |
| Zirconium | 91-1 | 827 | 810 | 813 | 817 | 1.08 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 162900 | 162678 | 163619 | 163065 | 0.30 | cps |
| Antimony | 121-1 | 16777 | 16787 | 17064 | 16876 | 0.97 | cps |
| Arsenic | 75-2 | 877 | 783 | 797 | 819 | 6.16 | cps |
| Barium | 135-1 | 411459 | 416729 | 413997 | 414062 | 0.64 | cps |
| Barium | 137-1 | 717379 | 720223 | 732682 | 723428 | 1.13 | cps |
| Beryllium | 9-1 | 1182 | 1165 | 1246 | 1198 | 3.57 | cps |
| Bismuth | 209-1 | 11600059 | 11545275 | 11864751 | 11670028 | 1.46 | cps |
| Bismuth | 209-2 | 5127799 | 5128529 | 5188707 | 5148345 | 0.68 | cps |
| Bromine | 81-1 | 147696 | 158750 | 161632 | 156026 | 4.72 | cps |
| Cadmium | 108-1 | 143 | 133 | 143 | 140 | 4.12 | cps |
| Cadmium | 106-1 | 8556 | 8643 | 8770 | 8656 | 1.24 | cps |
| Cadmium | 111-1 | 6212 | 6247 | 6348 | 6269 | 1.13 | cps |
| Calcium | 43-1 | 18808233 | 18571093 | 19025776 | 18801701 | 1.21 | cps |
| Calcium | 44-1 | 296957189 | 299695156 | 299751742 | 298801362 | 0.53 | cps |
| Carbon | 12-1 | 10374742 | 11280362 | 11645751 | 11100285 | 5.89 | cps |
| Carbon | 12-2 | 79456 | 79631 | 80006 | 79698 | 0.35 | cps |
| Chlorine | 35-1 | 4132079 | 4201981 | 4292473 | 4208844 | 1.91 | cps |
| Chlorine | 35-2 | 17244 | 17007 | 17310 | 17187 | 0.93 | cps |
| Chromium | 52-2 | 19166 | 19110 | 19624 | 19300 | 1.46 | cps |
| Cobalt | 59-2 | 44329 | 43382 | 43734 | 43815 | 1.09 | cps |
| Copper | 63-2 | 39137 | 39946 | 39889 | 39657 | 1.14 | cps |
| Dysprosium | 156-1 | 8073 | 8246 | 8183 | 8167 | 1.07 | cps |
| Dysprosium | 156-2 | 2614 | 2657 | 2817 | 2696 | 3.97 | cps |
| Erbium | 164-1 | 6645 | 6959 | 6722 | 6775 | 2.41 | cps |
| Erbium | 164-2 | 2310 | 2397 | 2350 | 2352 | 1.84 | cps |
| Gadolinium | 160-1 | 7149 | 7065 | 7482 | 7232 | 3.05 | cps |
| Gadolinium | 160-2 | 3084 | 3117 | 3187 | 3129 | 1.69 | cps |
| Holmium | 165-1 | 20060558 | 20007866 | 20124289 | 20064238 | 0.29 | cps |
| Holmium | 165-2 | 7294641 | 7342113 | 7493710 | 7376822 | 1.41 | cps |
| Indium | 115-1 | 16123857 | 15834198 | 15963217 | 15973757 | 0.91 | cps |
| Indium | 115-2 | 1664967 | 1665562 | 1681050 | 1670526 | 0.55 | cps |
| Iron | 54-2 | 517670 | 525249 | 523308 | 522076 | 0.75 | cps |
| Iron | 56-2 | 9851186 | 9830410 | 9857591 | 9846396 | 0.14 | cps |
| Iron | 57-2 | 240418 | 241913 | 239875 | 240735 | 0.44 | cps |
| Krypton | 83-1 | 297 | 300 | 310 | 302 | 2.30 | cps |
| Lead | 206-1 | 54852 | 55629 | 55284 | 55255 | 0.70 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 43924 | 44275 | 45128 | 44443 | 1.39 | cps |
| Lead | 208-1 | 206983 | 210306 | 212573 | 209954 | 1.34 | cps |
| Lithium | 6-1 | 9242757 | 9302312 | 9564869 | 9369980 | 1.83 | cps |
| Magnesium | 24-2 | 26518812 | 26242109 | 26023438 | 26261453 | 0.95 | cps |
| Manganese | 55-2 | 1515179 | 1502710 | 1466191 | 1494693 | 1.70 | cps |
| Molybdenum | 94-1 | 53218 | 53552 | 53998 | 53589 | 0.73 | cps |
| Molybdenum | 95-1 | 69586 | 70283 | 70307 | 70059 | 0.58 | cps |
| Molybdenum | 96-1 | 74994 | 75554 | 76666 | 75738 | 1.12 | cps |
| Molybdenum | 97-1 | 42013 | 43438 | 42959 | 42804 | 1.69 | cps |
| Molybdenum | 98-1 | 109058 | 111876 | 110569 | 110501 | 1.28 | cps |
| Neodymium | 150-1 | 11068 | 10995 | 11225 | 11096 | 1.06 | cps |
| Neodymium | 150-2 | 2860 | 2854 | 2960 | 2891 | 2.07 | cps |
| Nickel | 60-2 | 19574 | 20054 | 19821 | 19816 | 1.21 | cps |
| Phosphorus | 31-2 | 2200 | 2187 | 2294 | 2227 | 2.61 | cps |
| Potassium | 39-2 | 1118588 | 1115454 | 1111726 | 1115256 | 0.31 | cps |
| Rhodium | 103-1 | 14541561 | 14637372 | 14706020 | 14628318 | 0.56 | cps |
| Rhodium | 103-2 | 5817110 | 6027371 | 6089103 | 5977861 | 2.39 | cps |
| Scandium | 45-1 | 11924452 | 11564532 | 12096110 | 11861698 | 2.29 | cps |
| Scandium | 45-2 | 232945 | 235493 | 237778 | 235406 | 1.03 | cps |
| Selenium | 82-1 | 183 | 197 | 157 | 179 | 11.39 | cps |
| Selenium | 77-2 | 27 | 10 | 7 | 14 | 74.18 | cps |
| Selenium | 78-2 | 17 | 20 | 17 | 18 | 10.81 | cps |
| Silicon | 28-1 | 135693371 | 138576218 | 138386441 | 137552010 | 1.17 | cps |
| Silver | 107-1 | 907 | 890 | 883 | 893 | 1.35 | cps |
| Silver | 109-1 | 580 | 553 | 623 | 586 | 6.03 | cps |
| Sodium | 23-2 | 14552790 | 14470977 | 14511014 | 14511594 | 0.28 | cps |
| Strontium | 86-1 | 101918708 | 103346135 | 104395335 | 103220060 | 1.20 | cps |
| Strontium | 88-1 | 878819294 | 891547533 | 920195266 | 896854031 | 2.36 | cps |
| Sulfur | 34-1 | 24713030 | 24661472 | 24847090 | 24740531 | 0.39 | cps |
| Terbium | 159-1 | 20433821 | 20488926 | 20856163 | 20592970 | 1.11 | cps |
| Terbium | 159-2 | 7128035 | 6895530 | 7212306 | 7078624 | 2.32 | cps |
| Thallium | 203-1 | 1473 | 1630 | 1513 | 1539 | 5.29 | cps |
| Thallium | 205-1 | 3347 | 3581 | 3507 | 3478 | 3.43 | cps |
| Tin | 118-1 | 49134 | 48051 | 50369 | 49185 | 2.36 | cps |
| Titanium | 47-1 | 128294 | 130641 | 130320 | 129752 | 0.98 | cps |
| Uranium | 238-1 | 163597 | 165845 | 165818 | 165087 | 0.78 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-07 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2984 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:51:17 | DataFile Name : | 067AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 19033 | 19467 | 19276 | 19259 | 1.13 | cps |
| Ytterbium | 172-1 | 2117 | 1917 | 2090 | 2041 | 5.32 | cps |
| Ytterbium | 172-2 | 877 | 923 | 870 | 890 | 3.26 | cps |
| Ytterbium | 176-1 | 3074 | 3060 | 3200 | 3112 | 2.48 | cps |
| Ytterbium | 176-2 | 803 | 873 | 917 | 864 | 6.62 | cps |
| Yttrium | 89-1 | 28921436 | 29138058 | 29189293 | 29082929 | 0.49 | cps |
| Yttrium | 89-2 | 2170175 | 2166049 | 2197825 | 2178016 | 0.79 | cps |
| Zinc | 66-2 | 12909 | 13577 | 13176 | 13221 | 2.54 | cps |
| Zirconium | 90-1 | 36103 | 35722 | 35722 | 35849 | 0.61 | cps |
| Zirconium | 91-1 | 7622 | 7896 | 8293 | 7937 | 4.25 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 750 | 767 | 733 | 750 | 2.22 | cps |
| Antimony | 121-1 | 1333 | 1130 | 1227 | 1230 | 8.27 | cps |
| Arsenic | 75-2 | 123 | 120 | 123 | 122 | 1.58 | cps |
| Barium | 135-1 | 406146 | 391701 | 401846 | 399898 | 1.85 | cps |
| Barium | 137-1 | 713807 | 700655 | 690109 | 701524 | 1.69 | cps |
| Beryllium | 9-1 | 396 | 450 | 414 | 420 | 6.53 | cps |
| Bismuth | 209-1 | 11456152 | 11209147 | 11274699 | 11313333 | 1.13 | cps |
| Bismuth | 209-2 | 4991534 | 5066911 | 5317423 | 5125289 | 3.33 | cps |
| Bromine | 81-1 | 146969 | 160180 | 173823 | 160324 | 8.38 | cps |
| Cadmium | 108-1 | 33 | 30 | 43 | 36 | 19.51 | cps |
| Cadmium | 106-1 | 8433 | 8112 | 8029 | 8191 | 2.60 | cps |
| Cadmium | 111-1 | 5923 | 5704 | 5640 | 5756 | 2.58 | cps |
| Calcium | 43-1 | 25397550 | 24008200 | 24595582 | 24667111 | 2.83 | cps |
| Calcium | 44-1 | 404976514 | 387165901 | 397929981 | 396690799 | 2.26 | cps |
| Carbon | 12-1 | 9493032 | 10284251 | 10897562 | 10224948 | 6.89 | cps |
| Carbon | 12-2 | 70743 | 72973 | 72722 | 72146 | 1.69 | cps |
| Chlorine | 35-1 | 4123066 | 4160173 | 4415775 | 4233004 | 3.76 | cps |
| Chlorine | 35-2 | 18131 | 18749 | 18802 | 18561 | 2.01 | cps |
| Chromium | 52-2 | 6248 | 6502 | 6818 | 6523 | 4.38 | cps |
| Cobalt | 59-2 | 880 | 863 | 797 | 847 | 5.21 | cps |
| Copper | 63-2 | 9083 | 8883 | 8903 | 8956 | 1.23 | cps |
| Dysprosium | 156-1 | 33 | 27 | 50 | 37 | 32.78 | cps |
| Dysprosium | 156-2 | 20 | 7 | 10 | 12 | 56.76 | cps |
| Erbium | 164-1 | 107 | 123 | 120 | 117 | 7.56 | cps |
| Erbium | 164-2 | 27 | 33 | 30 | 30 | 11.10 | cps |
| Gadolinium | 160-1 | 117 | 160 | 130 | 136 | 16.37 | cps |
| Gadolinium | 160-2 | 33 | 33 | 37 | 34 | 5.60 | cps |
| Holmium | 165-1 | 19800788 | 19198252 | 19445882 | 19481641 | 1.55 | cps |
| Holmium | 165-2 | 7171417 | 7375344 | 7731144 | 7425968 | 3.81 | cps |
| Indium | 115-1 | 15698630 | 15130421 | 15838822 | 15555957 | 2.41 | cps |
| Indium | 115-2 | 1633773 | 1635471 | 1741183 | 1670142 | 3.68 | cps |
| Iron | 54-2 | 4848 | 5331 | 5138 | 5105 | 4.77 | cps |
| Iron | 56-2 | 89287 | 89056 | 87244 | 88529 | 1.26 | cps |
| Iron | 57-2 | 2870 | 3064 | 2774 | 2903 | 5.09 | cps |
| Krypton | 83-1 | 343 | 287 | 367 | 332 | 12.38 | cps |
| Lead | 206-1 | 2454 | 2500 | 2490 | 2481 | 0.99 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2227 | 2150 | 1974 | 2117 | 6.14 | cps |
| Lead | 208-1 | 9855 | 9551 | 9461 | 9623 | 2.14 | cps |
| Lithium | 6-1 | 9491293 | 8963569 | 9245846 | 9233569 | 2.86 | cps |
| Magnesium | 24-2 | 12500815 | 12710984 | 12485152 | 12565650 | 1.00 | cps |
| Manganese | 55-2 | 11251 | 11702 | 11235 | 11396 | 2.33 | cps |
| Molybdenum | 94-1 | 11068 | 10210 | 10224 | 10501 | 4.68 | cps |
| Molybdenum | 95-1 | 17338 | 17157 | 16954 | 17150 | 1.12 | cps |
| Molybdenum | 96-1 | 18412 | 18426 | 18476 | 18438 | 0.18 | cps |
| Molybdenum | 97-1 | 10758 | 10257 | 10637 | 10551 | 2.48 | cps |
| Molybdenum | 98-1 | 27828 | 26869 | 27437 | 27378 | 1.76 | cps |
| Neodymium | 150-1 | 63 | 87 | 73 | 74 | 15.73 | cps |
| Neodymium | 150-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Nickel | 60-2 | 8439 | 8246 | 8466 | 8384 | 1.43 | cps |
| Phosphorus | 31-2 | 137 | 173 | 117 | 142 | 20.21 | cps |
| Potassium | 39-2 | 5713373 | 5820128 | 5546850 | 5693450 | 2.42 | cps |
| Rhodium | 103-1 | 14391216 | 13781419 | 14341615 | 14171417 | 2.39 | cps |
| Rhodium | 103-2 | 5874746 | 5941205 | 6153881 | 5989944 | 2.43 | cps |
| Scandium | 45-1 | 11830938 | 11396578 | 11603295 | 11610271 | 1.87 | cps |
| Scandium | 45-2 | 232615 | 234225 | 243153 | 236664 | 2.40 | cps |
| Selenium | 82-1 | 127 | 163 | 53 | 114 | 48.94 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 17 | 3 | 17 | 12 | 63.01 | cps |
| Silicon | 28-1 | 65176592 | 61882266 | 64007411 | 63688756 | 2.62 | cps |
| Silver | 107-1 | 540 | 513 | 520 | 524 | 2.65 | cps |
| Silver | 109-1 | 227 | 253 | 237 | 239 | 5.64 | cps |
| Sodium | 23-2 | 21677822 | 21880771 | 21446460 | 21668351 | 1.00 | cps |
| Strontium | 86-1 | 86088285 | 83239177 | 83941422 | 84422962 | 1.76 | cps |
| Strontium | 88-1 | 732318416 | 717154256 | 718657403 | 722710025 | 1.16 | cps |
| Sulfur | 34-1 | 32653141 | 30096709 | 31414391 | 31388080 | 4.07 | cps |
| Terbium | 159-1 | 20261146 | 19558494 | 20052115 | 19957252 | 1.81 | cps |
| Terbium | 159-2 | 7040679 | 7088837 | 7363405 | 7164307 | 2.43 | cps |
| Thallium | 203-1 | 297 | 293 | 297 | 296 | 0.65 | cps |
| Thallium | 205-1 | 657 | 703 | 743 | 701 | 6.19 | cps |
| Tin | 118-1 | 5138 | 4848 | 4824 | 4936 | 3.54 | cps |
| Titanium | 47-1 | 2044 | 1943 | 1943 | 1977 | 2.92 | cps |
| Uranium | 238-1 | 6462 | 6478 | 6779 | 6573 | 2.71 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-08 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2985 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:54:32 | DataFile Name : | 068AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 11078 | 11531 | 11265 | 11291 | 2.02 | cps |
| Ytterbium | 172-1 | 117 | 113 | 153 | 128 | 17.37 | cps |
| Ytterbium | 172-2 | 57 | 77 | 63 | 66 | 15.54 | cps |
| Ytterbium | 176-1 | 2067 | 1944 | 1937 | 1982 | 3.69 | cps |
| Ytterbium | 176-2 | 263 | 260 | 333 | 286 | 14.50 | cps |
| Yttrium | 89-1 | 28187651 | 27721626 | 28272735 | 28060671 | 1.06 | cps |
| Yttrium | 89-2 | 2143203 | 2158016 | 2256881 | 2186033 | 2.83 | cps |
| Zinc | 66-2 | 517 | 460 | 547 | 508 | 8.67 | cps |
| Zirconium | 90-1 | 1630 | 1543 | 1667 | 1613 | 3.93 | cps |
| Zirconium | 91-1 | 370 | 343 | 310 | 341 | 8.81 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 857 | 790 | 857 | 834 | 4.61 | cps |
| Antimony | 121-1 | 1630 | 1660 | 1667 | 1652 | 1.18 | cps |
| Arsenic | 75-2 | 367 | 347 | 413 | 376 | 9.11 | cps |
| Barium | 135-1 | 295209 | 295865 | 307247 | 299441 | 2.26 | cps |
| Barium | 137-1 | 517245 | 520234 | 530651 | 522710 | 1.35 | cps |
| Beryllium | 9-1 | 467 | 441 | 457 | 455 | 2.91 | cps |
| Bismuth | 209-1 | 11095163 | 11307730 | 11064243 | 11155712 | 1.19 | cps |
| Bismuth | 209-2 | 4921894 | 5007915 | 5269583 | 5066464 | 3.57 | cps |
| Bromine | 81-1 | 125642 | 149349 | 162047 | 145679 | 12.68 | cps |
| Cadmium | 108-1 | 43 | 33 | 43 | 40 | 14.43 | cps |
| Cadmium | 106-1 | 7952 | 8426 | 7922 | 8100 | 3.49 | cps |
| Cadmium | 111-1 | 5623 | 5968 | 5609 | 5733 | 3.55 | cps |
| Calcium | 43-1 | 23807154 | 23835805 | 24479700 | 24040886 | 1.58 | cps |
| Calcium | 44-1 | 382562474 | 387199181 | 392864047 | 387541901 | 1.33 | cps |
| Carbon | 12-1 | 9711089 | 10643189 | 11047339 | 10467206 | 6.55 | cps |
| Carbon | 12-2 | 74752 | 74501 | 75713 | 74989 | 0.85 | cps |
| Chlorine | 35-1 | 16150599 | 17613880 | 18429006 | 17397828 | 6.64 | cps |
| Chlorine | 35-2 | 78394 | 79848 | 79610 | 79284 | 0.98 | cps |
| Chromium | 52-2 | 2644 | 2744 | 2867 | 2751 | 4.07 | cps |
| Cobalt | 59-2 | 18208 | 18005 | 18462 | 18225 | 1.26 | cps |
| Copper | 63-2 | 9947 | 10551 | 10657 | 10385 | 3.69 | cps |
| Dysprosium | 156-1 | 40 | 47 | 47 | 44 | 8.66 | cps |
| Dysprosium | 156-2 | 40 | 7 | 10 | 19 | 97.18 | cps |
| Erbium | 164-1 | 120 | 127 | 143 | 130 | 9.25 | cps |
| Erbium | 164-2 | 57 | 47 | 57 | 53 | 10.82 | cps |
| Gadolinium | 160-1 | 143 | 193 | 160 | 166 | 15.38 | cps |
| Gadolinium | 160-2 | 23 | 30 | 40 | 31 | 26.97 | cps |
| Holmium | 165-1 | 19305161 | 19273094 | 18953065 | 19177107 | 1.02 | cps |
| Holmium | 165-2 | 7199143 | 7288287 | 7735928 | 7407786 | 3.88 | cps |
| Indium | 115-1 | 15408018 | 15496856 | 15347975 | 15417617 | 0.49 | cps |
| Indium | 115-2 | 1642173 | 1673827 | 1748065 | 1688022 | 3.22 | cps |
| Iron | 54-2 | 144428 | 144415 | 142371 | 143738 | 0.82 | cps |
| Iron | 56-2 | 2769420 | 2703652 | 2710200 | 2727757 | 1.33 | cps |
| Iron | 57-2 | 66310 | 66621 | 65754 | 66228 | 0.66 | cps |
| Krypton | 83-1 | 263 | 333 | 347 | 314 | 14.23 | cps |
| Lead | 206-1 | 2907 | 2980 | 3070 | 2986 | 2.74 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2510 | 2567 | 2680 | 2586 | 3.35 | cps |
| Lead | 208-1 | 11292 | 11619 | 11956 | 11622 | 2.85 | cps |
| Lithium | 6-1 | 9076323 | 9146112 | 8962411 | 9061615 | 1.02 | cps |
| Magnesium | 24-2 | 31100373 | 30729115 | 30807505 | 30878997 | 0.63 | cps |
| Manganese | 55-2 | 443015 | 430609 | 434721 | 436115 | 1.45 | cps |
| Molybdenum | 94-1 | 22772 | 23557 | 23356 | 23228 | 1.76 | cps |
| Molybdenum | 95-1 | 35625 | 36257 | 36284 | 36056 | 1.03 | cps |
| Molybdenum | 96-1 | 39045 | 39844 | 39904 | 39597 | 1.21 | cps |
| Molybdenum | 97-1 | 22418 | 22118 | 23126 | 22554 | 2.30 | cps |
| Molybdenum | 98-1 | 56447 | 57599 | 58489 | 57512 | 1.78 | cps |
| Neodymium | 150-1 | 110 | 77 | 100 | 96 | 17.90 | cps |
| Neodymium | 150-2 | 27 | 3 | 10 | 13 | 90.16 | cps |
| Nickel | 60-2 | 10194 | 10647 | 10354 | 10398 | 2.21 | cps |
| Phosphorus | 31-2 | 150 | 120 | 173 | 148 | 18.09 | cps |
| Potassium | 39-2 | 590234 | 588559 | 585017 | 587937 | 0.45 | cps |
| Rhodium | 103-1 | 13853924 | 14479293 | 13983016 | 14105411 | 2.34 | cps |
| Rhodium | 103-2 | 5864157 | 5856543 | 6047849 | 5922850 | 1.83 | cps |
| Scandium | 45-1 | 11399526 | 11847163 | 11542778 | 11596489 | 1.97 | cps |
| Scandium | 45-2 | 230171 | 232633 | 245987 | 236264 | 3.60 | cps |
| Selenium | 82-1 | 130 | 153 | 110 | 131 | 16.54 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 13 | 20 | 14 | 35.26 | cps |
| Silicon | 28-1 | 98278985 | 98051342 | 99833059 | 98721129 | 0.98 | cps |
| Silver | 107-1 | 547 | 593 | 630 | 590 | 7.08 | cps |
| Silver | 109-1 | 283 | 437 | 450 | 390 | 23.75 | cps |
| Sodium | 23-2 | 54897563 | 55309441 | 54275298 | 54827434 | 0.95 | cps |
| Strontium | 86-1 | 66933134 | 67782491 | 68748324 | 67821316 | 1.34 | cps |
| Strontium | 88-1 | 573576951 | 587081378 | 586728845 | 582462391 | 1.32 | cps |
| Sulfur | 34-1 | 29097085 | 28791650 | 29531247 | 29139994 | 1.28 | cps |
| Terbium | 159-1 | 19506273 | 20134055 | 19631840 | 19757389 | 1.68 | cps |
| Terbium | 159-2 | 7038489 | 7017795 | 7366087 | 7140790 | 2.74 | cps |
| Thallium | 203-1 | 443 | 517 | 423 | 461 | 10.66 | cps |
| Thallium | 205-1 | 1167 | 1057 | 1023 | 1082 | 6.93 | cps |
| Tin | 118-1 | 5038 | 5131 | 5021 | 5063 | 1.17 | cps |
| Titanium | 47-1 | 2010 | 2240 | 2104 | 2118 | 5.46 | cps |
| Uranium | 238-1 | 251774 | 255397 | 253915 | 253695 | 0.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-09 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2986 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 15:57:45 | DataFile Name : | 069AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 423 | 430 | 463 | 439 | 4.88 | cps |
| Ytterbium | 172-1 | 103 | 137 | 133 | 124 | 14.76 | cps |
| Ytterbium | 172-2 | 63 | 53 | 43 | 53 | 18.75 | cps |
| Ytterbium | 176-1 | 1827 | 1954 | 1727 | 1836 | 6.19 | cps |
| Ytterbium | 176-2 | 243 | 337 | 343 | 308 | 18.17 | cps |
| Yttrium | 89-1 | 27897414 | 28479754 | 27786840 | 28054669 | 1.33 | cps |
| Yttrium | 89-2 | 2174914 | 2144851 | 2264971 | 2194912 | 2.85 | cps |
| Zinc | 66-2 | 1890 | 1947 | 1900 | 1912 | 1.58 | cps |
| Zirconium | 90-1 | 7055 | 6945 | 6698 | 6900 | 2.65 | cps |
| Zirconium | 91-1 | 1400 | 1510 | 1500 | 1470 | 4.14 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 870 | 933 | 973 | 926 | 5.63 | cps |
| Antimony | 121-1 | 577 | 563 | 623 | 588 | 5.36 | cps |
| Arsenic | 75-2 | 90 | 110 | 110 | 103 | 11.17 | cps |
| Barium | 135-1 | 194361 | 195596 | 198026 | 195994 | 0.95 | cps |
| Barium | 137-1 | 337169 | 345035 | 346315 | 342840 | 1.44 | cps |
| Beryllium | 9-1 | 372 | 381 | 399 | 384 | 3.48 | cps |
| Bismuth | 209-1 | 11451128 | 11497195 | 11335307 | 11427877 | 0.73 | cps |
| Bismuth | 209-2 | 5077515 | 5083922 | 5070084 | 5077174 | 0.14 | cps |
| Bromine | 81-1 | 261561 | 324108 | 363812 | 316493 | 16.29 | cps |
| Cadmium | 108-1 | 33 | 27 | 37 | 32 | 15.80 | cps |
| Cadmium | 106-1 | 8066 | 8096 | 8383 | 8181 | 2.14 | cps |
| Cadmium | 111-1 | 5673 | 5698 | 5879 | 5750 | 1.95 | cps |
| Calcium | 43-1 | 21417729 | 21811929 | 22060776 | 21763478 | 1.49 | cps |
| Calcium | 44-1 | 347334488 | 347499035 | 359573528 | 351469017 | 2.00 | cps |
| Carbon | 12-1 | 9662366 | 10402733 | 10893194 | 10319431 | 6.00 | cps |
| Carbon | 12-2 | 75191 | 75911 | 76518 | 75873 | 0.88 | cps |
| Chlorine | 35-1 | 26037520 | 27643550 | 28975349 | 27552139 | 5.34 | cps |
| Chlorine | 35-2 | 122312 | 122862 | 123229 | 122801 | 0.38 | cps |
| Chromium | 52-2 | 6181 | 6205 | 6328 | 6238 | 1.26 | cps |
| Cobalt | 59-2 | 1057 | 1063 | 1037 | 1052 | 1.32 | cps |
| Copper | 63-2 | 8156 | 8096 | 8039 | 8097 | 0.72 | cps |
| Dysprosium | 156-1 | 60 | 33 | 53 | 49 | 28.39 | cps |
| Dysprosium | 156-2 | 7 | 20 | 7 | 11 | 69.25 | cps |
| Erbium | 164-1 | 130 | 153 | 137 | 140 | 8.59 | cps |
| Erbium | 164-2 | 63 | 33 | 70 | 56 | 35.16 | cps |
| Gadolinium | 160-1 | 157 | 187 | 177 | 173 | 8.81 | cps |
| Gadolinium | 160-2 | 57 | 27 | 23 | 36 | 51.64 | cps |
| Holmium | 165-1 | 19559183 | 19648626 | 19527061 | 19578290 | 0.32 | cps |
| Holmium | 165-2 | 7412694 | 7298410 | 7441860 | 7384321 | 1.03 | cps |
| Indium | 115-1 | 15867215 | 16059477 | 16018903 | 15981865 | 0.63 | cps |
| Indium | 115-2 | 1681810 | 1676136 | 1705004 | 1687650 | 0.91 | cps |
| Iron | 54-2 | 37442 | 37726 | 37175 | 37448 | 0.74 | cps |
| Iron | 56-2 | 677548 | 684085 | 678027 | 679887 | 0.54 | cps |
| Iron | 57-2 | 17684 | 17985 | 17681 | 17783 | 0.98 | cps |
| Krypton | 83-1 | 300 | 347 | 307 | 318 | 7.94 | cps |
| Lead | 206-1 | 3511 | 3777 | 3861 | 3716 | 4.92 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2980 | 3137 | 3150 | 3089 | 3.06 | cps |
| Lead | 208-1 | 13956 | 14573 | 15010 | 14513 | 3.65 | cps |
| Lithium | 6-1 | 9107519 | 9257333 | 9406584 | 9257145 | 1.62 | cps |
| Magnesium | 24-2 | 42351289 | 42798338 | 42850223 | 42666617 | 0.64 | cps |
| Manganese | 55-2 | 109045 | 110305 | 108441 | 109264 | 0.87 | cps |
| Molybdenum | 94-1 | 5568 | 5701 | 5778 | 5682 | 1.87 | cps |
| Molybdenum | 95-1 | 7729 | 7389 | 7652 | 7590 | 2.35 | cps |
| Molybdenum | 96-1 | 8039 | 8349 | 8316 | 8235 | 2.07 | cps |
| Molybdenum | 97-1 | 4614 | 4661 | 4838 | 4704 | 2.50 | cps |
| Molybdenum | 98-1 | 11925 | 12095 | 12012 | 12011 | 0.71 | cps |
| Neodymium | 150-1 | 80 | 90 | 83 | 84 | 6.03 | cps |
| Neodymium | 150-2 | 10 | 10 | 13 | 11 | 17.30 | cps |
| Nickel | 60-2 | 4191 | 4087 | 4341 | 4206 | 3.03 | cps |
| Phosphorus | 31-2 | 320 | 277 | 297 | 298 | 7.28 | cps |
| Potassium | 39-2 | 2515830 | 2602788 | 2513972 | 2544197 | 1.99 | cps |
| Rhodium | 103-1 | 13970069 | 14044016 | 14448149 | 14154078 | 1.82 | cps |
| Rhodium | 103-2 | 5880505 | 5968264 | 5968089 | 5938953 | 0.85 | cps |
| Scandium | 45-1 | 11646944 | 11746463 | 11915498 | 11769635 | 1.15 | cps |
| Scandium | 45-2 | 234852 | 237809 | 236909 | 236523 | 0.64 | cps |
| Selenium | 82-1 | 177 | 183 | 117 | 159 | 23.11 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 23 | 3 | 10 | 12 | 83.33 | cps |
| Silicon | 28-1 | 94675422 | 94524442 | 95928899 | 95042921 | 0.81 | cps |
| Silver | 107-1 | 2629 | 1987 | 1113 | 1910 | 39.83 | cps |
| Silver | 109-1 | 2020 | 1417 | 800 | 1412 | 43.20 | cps |
| Sodium | 23-2 | 42372136 | 43117778 | 42820849 | 42770254 | 0.88 | cps |
| Strontium | 86-1 | 71236689 | 73025951 | 71748372 | 72003671 | 1.28 | cps |
| Strontium | 88-1 | 616698964 | 634400097 | 616560897 | 622553320 | 1.65 | cps |
| Sulfur | 34-1 | 30886818 | 30948001 | 30970290 | 30935036 | 0.14 | cps |
| Terbium | 159-1 | 19796084 | 20077446 | 20702109 | 20191880 | 2.30 | cps |
| Terbium | 159-2 | 7056500 | 7077815 | 7148874 | 7094396 | 0.68 | cps |
| Thallium | 203-1 | 230 | 277 | 213 | 240 | 13.68 | cps |
| Thallium | 205-1 | 573 | 717 | 587 | 626 | 12.66 | cps |
| Tin | 118-1 | 8209 | 8132 | 8423 | 8255 | 1.82 | cps |
| Titanium | 47-1 | 2547 | 2770 | 2664 | 2660 | 4.20 | cps |
| Uranium | 238-1 | 23318 | 22844 | 23315 | 23159 | 1.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-10 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2987 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:01:01 | DataFile Name : | 070AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 497 | 410 | 390 | 432 | 13.12 | cps |
| Ytterbium | 172-1 | 100 | 173 | 120 | 131 | 28.92 | cps |
| Ytterbium | 172-2 | 40 | 67 | 47 | 51 | 27.15 | cps |
| Ytterbium | 176-1 | 1750 | 1954 | 1887 | 1863 | 5.56 | cps |
| Ytterbium | 176-2 | 310 | 307 | 290 | 302 | 3.54 | cps |
| Yttrium | 89-1 | 28151898 | 28703350 | 28919345 | 28591531 | 1.38 | cps |
| Yttrium | 89-2 | 2150494 | 2166075 | 2202706 | 2173092 | 1.23 | cps |
| Zinc | 66-2 | 1140 | 1143 | 1120 | 1135 | 1.11 | cps |
| Zirconium | 90-1 | 3594 | 3370 | 3764 | 3576 | 5.52 | cps |
| Zirconium | 91-1 | 747 | 790 | 717 | 751 | 4.91 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5584 | 5801 | 5681 | 5689 | 1.91 | cps |
| Antimony | 121-1 | 3601 | 3594 | 3661 | 3618 | 1.02 | cps |
| Arsenic | 75-2 | 1340 | 1203 | 1117 | 1220 | 9.23 | cps |
| Barium | 135-1 | 271455 | 275928 | 273528 | 273637 | 0.82 | cps |
| Barium | 137-1 | 472912 | 478363 | 479005 | 476760 | 0.70 | cps |
| Beryllium | 9-1 | 435 | 410 | 426 | 424 | 2.99 | cps |
| Bismuth | 209-1 | 11608111 | 12120414 | 12103391 | 11943972 | 2.44 | cps |
| Bismuth | 209-2 | 5314525 | 5211789 | 5345176 | 5290497 | 1.32 | cps |
| Bromine | 81-1 | 159256 | 171444 | 175672 | 168791 | 5.05 | cps |
| Cadmium | 108-1 | 173 | 163 | 160 | 166 | 4.19 | cps |
| Cadmium | 106-1 | 8366 | 8356 | 8679 | 8467 | 2.17 | cps |
| Cadmium | 111-1 | 5921 | 5945 | 6164 | 6010 | 2.22 | cps |
| Calcium | 43-1 | 12208876 | 12303763 | 12402421 | 12305020 | 0.79 | cps |
| Calcium | 44-1 | 194221097 | 192705810 | 196013924 | 194313610 | 0.85 | cps |
| Carbon | 12-1 | 9522394 | 10132377 | 10500061 | 10051611 | 4.91 | cps |
| Carbon | 12-2 | 71050 | 70023 | 71416 | 70829 | 1.02 | cps |
| Chlorine | 35-1 | 8076986 | 8457478 | 8475282 | 8336582 | 2.70 | cps |
| Chlorine | 35-2 | 34965 | 35303 | 34631 | 34967 | 0.96 | cps |
| Chromium | 52-2 | 2954 | 2990 | 2780 | 2908 | 3.86 | cps |
| Cobalt | 59-2 | 16339 | 16096 | 15589 | 16008 | 2.39 | cps |
| Copper | 63-2 | 8032 | 8399 | 8239 | 8224 | 2.24 | cps |
| Dysprosium | 156-1 | 367 | 250 | 330 | 316 | 18.91 | cps |
| Dysprosium | 156-2 | 133 | 147 | 100 | 127 | 18.98 | cps |
| Erbium | 164-1 | 417 | 463 | 463 | 448 | 6.02 | cps |
| Erbium | 164-2 | 110 | 163 | 90 | 121 | 31.30 | cps |
| Gadolinium | 160-1 | 457 | 437 | 460 | 451 | 2.80 | cps |
| Gadolinium | 160-2 | 137 | 190 | 153 | 160 | 17.05 | cps |
| Holmium | 165-1 | 19914420 | 20850300 | 20616904 | 20460541 | 2.38 | cps |
| Holmium | 165-2 | 7450801 | 7482479 | 7660268 | 7531183 | 1.50 | cps |
| Indium | 115-1 | 15839581 | 16657089 | 16817784 | 16438151 | 3.19 | cps |
| Indium | 115-2 | 1702220 | 1706090 | 1727918 | 1712076 | 0.81 | cps |
| Iron | 54-2 | 29467 | 30372 | 29701 | 29847 | 1.57 | cps |
| Iron | 56-2 | 546144 | 551340 | 543985 | 547156 | 0.69 | cps |
| Iron | 57-2 | 14127 | 13934 | 13887 | 13983 | 0.91 | cps |
| Krypton | 83-1 | 240 | 313 | 293 | 282 | 13.43 | cps |
| Lead | 206-1 | 4701 | 4384 | 4347 | 4477 | 4.34 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3694 | 3771 | 3851 | 3772 | 2.08 | cps |
| Lead | 208-1 | 17735 | 17365 | 17365 | 17488 | 1.22 | cps |
| Lithium | 6-1 | 9362262 | 9712910 | 9692763 | 9589312 | 2.05 | cps |
| Magnesium | 24-2 | 16707737 | 16356959 | 16287617 | 16450771 | 1.37 | cps |
| Manganese | 55-2 | 1227766 | 1226082 | 1224845 | 1226231 | 0.12 | cps |
| Molybdenum | 94-1 | 176417 | 180049 | 177693 | 178053 | 1.03 | cps |
| Molybdenum | 95-1 | 301936 | 305008 | 309157 | 305367 | 1.19 | cps |
| Molybdenum | 96-1 | 318580 | 327862 | 324415 | 323619 | 1.45 | cps |
| Molybdenum | 97-1 | 185638 | 189549 | 191845 | 189010 | 1.66 | cps |
| Molybdenum | 98-1 | 483880 | 488366 | 493192 | 488480 | 0.95 | cps |
| Neodymium | 150-1 | 480 | 510 | 413 | 468 | 10.58 | cps |
| Neodymium | 150-2 | 123 | 93 | 90 | 102 | 17.96 | cps |
| Nickel | 60-2 | 4848 | 4751 | 4894 | 4831 | 1.51 | cps |
| Phosphorus | 31-2 | 740 | 777 | 773 | 763 | 2.66 | cps |
| Potassium | 39-2 | 1987155 | 1933107 | 1937243 | 1952502 | 1.54 | cps |
| Rhodium | 103-1 | 14822598 | 15155129 | 15218980 | 15065569 | 1.41 | cps |
| Rhodium | 103-2 | 6085970 | 6049127 | 6262294 | 6132464 | 1.86 | cps |
| Scandium | 45-1 | 11979608 | 12495987 | 12749286 | 12408294 | 3.16 | cps |
| Scandium | 45-2 | 240362 | 241770 | 243915 | 242015 | 0.74 | cps |
| Selenium | 82-1 | 233 | 143 | 123 | 167 | 35.16 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 10 | 23 | 13 | 16 | 44.60 | cps |
| Silicon | 28-1 | 114327065 | 115203668 | 114601848 | 114710861 | 0.39 | cps |
| Silver | 107-1 | 603 | 640 | 660 | 634 | 4.53 | cps |
| Silver | 109-1 | 307 | 327 | 327 | 320 | 3.61 | cps |
| Sodium | 23-2 | 68825032 | 67154177 | 66291391 | 67423533 | 1.91 | cps |
| Strontium | 86-1 | 98603302 | 100390919 | 99184752 | 99392991 | 0.92 | cps |
| Strontium | 88-1 | 847310547 | 852167774 | 846430307 | 848636210 | 0.36 | cps |
| Sulfur | 34-1 | 20703354 | 20811766 | 21025156 | 20846759 | 0.79 | cps |
| Terbium | 159-1 | 20302760 | 20855455 | 21234986 | 20797733 | 2.25 | cps |
| Terbium | 159-2 | 7427603 | 7349226 | 7324042 | 7366957 | 0.73 | cps |
| Thallium | 203-1 | 283 | 277 | 303 | 288 | 4.82 | cps |
| Thallium | 205-1 | 643 | 707 | 657 | 669 | 4.99 | cps |
| Tin | 118-1 | 17465 | 17611 | 17918 | 17665 | 1.31 | cps |
| Titanium | 47-1 | 11331 | 11678 | 11461 | 11490 | 1.53 | cps |
| Uranium | 238-1 | 137917 | 140414 | 139291 | 139208 | 0.90 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-11 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2988 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:04:15 | DataFile Name : | 071AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1393 | 1490 | 1453 | 1446 | 3.38 | cps |
| Ytterbium | 172-1 | 213 | 260 | 257 | 243 | 10.70 | cps |
| Ytterbium | 172-2 | 127 | 73 | 87 | 96 | 29.05 | cps |
| Ytterbium | 176-1 | 2047 | 1970 | 2050 | 2022 | 2.24 | cps |
| Ytterbium | 176-2 | 340 | 353 | 380 | 358 | 5.69 | cps |
| Yttrium | 89-1 | 28865928 | 30004488 | 29997202 | 29622539 | 2.21 | cps |
| Yttrium | 89-2 | 2212951 | 2217679 | 2233076 | 2221235 | 0.47 | cps |
| Zinc | 66-2 | 1377 | 1303 | 1343 | 1341 | 2.74 | cps |
| Zirconium | 90-1 | 4647 | 4654 | 4874 | 4725 | 2.73 | cps |
| Zirconium | 91-1 | 990 | 1000 | 953 | 981 | 2.50 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3754 | 3927 | 4067 | 3916 | 4.01 | cps |
| Antimony | 121-1 | 423 | 450 | 430 | 434 | 3.19 | cps |
| Arsenic | 75-2 | 210 | 257 | 247 | 238 | 10.33 | cps |
| Barium | 135-1 | 33244 | 33298 | 34293 | 33612 | 1.76 | cps |
| Barium | 137-1 | 57441 | 58362 | 59423 | 58409 | 1.70 | cps |
| Beryllium | 9-1 | 436 | 420 | 412 | 423 | 2.87 | cps |
| Bismuth | 209-1 | 11702277 | 11457559 | 11455819 | 11538551 | 1.23 | cps |
| Bismuth | 209-2 | 4990628 | 4920652 | 5017908 | 4976396 | 1.01 | cps |
| Bromine | 81-1 | 172008 | 200313 | 217898 | 196740 | 11.77 | cps |
| Cadmium | 108-1 | 33 | 27 | 50 | 37 | 32.78 | cps |
| Cadmium | 106-1 | 8376 | 7892 | 8149 | 8139 | 2.97 | cps |
| Cadmium | 111-1 | 5863 | 5543 | 5716 | 5707 | 2.81 | cps |
| Calcium | 43-1 | 26596646 | 26283921 | 26907161 | 26595910 | 1.17 | cps |
| Calcium | 44-1 | 429345980 | 423403660 | 438825393 | 430525011 | 1.81 | cps |
| Carbon | 12-1 | 9149291 | 10058191 | 10563865 | 9923782 | 7.22 | cps |
| Carbon | 12-2 | 73003 | 73764 | 73804 | 73524 | 0.61 | cps |
| Chlorine | 35-1 | 5220039 | 5518204 | 5764989 | 5501077 | 4.96 | cps |
| Chlorine | 35-2 | 22962 | 23422 | 23316 | 23233 | 1.04 | cps |
| Chromium | 52-2 | 1757 | 1827 | 1927 | 1837 | 4.65 | cps |
| Cobalt | 59-2 | 587 | 623 | 533 | 581 | 7.79 | cps |
| Copper | 63-2 | 6578 | 6405 | 6482 | 6488 | 1.34 | cps |
| Dysprosium | 156-1 | 133 | 110 | 147 | 130 | 14.28 | cps |
| Dysprosium | 156-2 | 57 | 47 | 43 | 49 | 14.20 | cps |
| Erbium | 164-1 | 210 | 230 | 180 | 207 | 12.18 | cps |
| Erbium | 164-2 | 97 | 73 | 63 | 78 | 22.00 | cps |
| Gadolinium | 160-1 | 223 | 237 | 217 | 226 | 4.51 | cps |
| Gadolinium | 160-2 | 50 | 80 | 60 | 63 | 24.12 | cps |
| Holmium | 165-1 | 19887275 | 19579312 | 19888652 | 19785080 | 0.90 | cps |
| Holmium | 165-2 | 7292074 | 7281988 | 7233519 | 7269194 | 0.43 | cps |
| Indium | 115-1 | 15956288 | 15840123 | 15915509 | 15903973 | 0.37 | cps |
| Indium | 115-2 | 1653988 | 1654729 | 1641627 | 1650115 | 0.45 | cps |
| Iron | 54-2 | 843555 | 846027 | 846670 | 845417 | 0.19 | cps |
| Iron | 56-2 | 15869252 | 15860809 | 16182879 | 15970980 | 1.15 | cps |
| Iron | 57-2 | 391297 | 383280 | 388784 | 387787 | 1.06 | cps |
| Krypton | 83-1 | 323 | 350 | 367 | 347 | 6.31 | cps |
| Lead | 206-1 | 2264 | 2194 | 2420 | 2292 | 5.06 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1980 | 1863 | 1997 | 1947 | 3.73 | cps |
| Lead | 208-1 | 8978 | 8885 | 9231 | 9031 | 1.99 | cps |
| Lithium | 6-1 | 9139779 | 9104504 | 9386948 | 9210410 | 1.67 | cps |
| Magnesium | 24-2 | 45876704 | 45781758 | 46266458 | 45974973 | 0.56 | cps |
| Manganese | 55-2 | 104956 | 105577 | 106688 | 105740 | 0.83 | cps |
| Molybdenum | 94-1 | 8923 | 9246 | 9277 | 9149 | 2.14 | cps |
| Molybdenum | 95-1 | 13613 | 14471 | 13907 | 13997 | 3.11 | cps |
| Molybdenum | 96-1 | 14564 | 15042 | 14931 | 14846 | 1.68 | cps |
| Molybdenum | 97-1 | 8496 | 8883 | 8406 | 8595 | 2.95 | cps |
| Molybdenum | 98-1 | 21821 | 21694 | 21984 | 21833 | 0.67 | cps |
| Neodymium | 150-1 | 160 | 197 | 173 | 177 | 10.51 | cps |
| Neodymium | 150-2 | 37 | 27 | 37 | 33 | 17.32 | cps |
| Nickel | 60-2 | 1210 | 1237 | 1250 | 1232 | 1.65 | cps |
| Phosphorus | 31-2 | 130 | 117 | 150 | 132 | 12.69 | cps |
| Potassium | 39-2 | 694737 | 684508 | 694271 | 691172 | 0.84 | cps |
| Rhodium | 103-1 | 14855949 | 14290799 | 14564797 | 14570515 | 1.94 | cps |
| Rhodium | 103-2 | 5895575 | 5905622 | 5911082 | 5904093 | 0.13 | cps |
| Scandium | 45-1 | 12123660 | 11713229 | 11801704 | 11879531 | 1.82 | cps |
| Scandium | 45-2 | 232898 | 230869 | 232861 | 232209 | 0.50 | cps |
| Selenium | 82-1 | 93 | 80 | 117 | 97 | 19.20 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 10 | 7 | 23 | 13 | 66.12 | cps |
| Silicon | 28-1 | 139454648 | 139062935 | 140638268 | 139718617 | 0.59 | cps |
| Silver | 107-1 | 563 | 530 | 580 | 558 | 4.56 | cps |
| Silver | 109-1 | 210 | 360 | 300 | 290 | 26.04 | cps |
| Sodium | 23-2 | 26109885 | 25882405 | 26290528 | 26094273 | 0.78 | cps |
| Strontium | 86-1 | 70606011 | 71435264 | 71586731 | 71209335 | 0.74 | cps |
| Strontium | 88-1 | 602991044 | 617185817 | 626188551 | 615455137 | 1.90 | cps |
| Sulfur | 34-1 | 44983449 | 44464468 | 45310419 | 44919445 | 0.95 | cps |
| Terbium | 159-1 | 20633877 | 19941942 | 20438263 | 20338027 | 1.75 | cps |
| Terbium | 159-2 | 7058708 | 6856405 | 7047650 | 6987588 | 1.63 | cps |
| Thallium | 203-1 | 290 | 263 | 223 | 259 | 12.96 | cps |
| Thallium | 205-1 | 613 | 660 | 670 | 648 | 4.67 | cps |
| Tin | 118-1 | 4537 | 4167 | 4491 | 4399 | 4.58 | cps |
| Titanium | 47-1 | 3124 | 2767 | 3057 | 2983 | 6.36 | cps |
| Uranium | 238-1 | 43665 | 43932 | 45284 | 44294 | 1.96 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-12 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2992 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:07:31 | DataFile Name : | 072AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 177 | 160 | 167 | 168 | 5.00 | cps |
| Ytterbium | 172-1 | 133 | 137 | 167 | 146 | 12.61 | cps |
| Ytterbium | 172-2 | 53 | 63 | 70 | 62 | 13.48 | cps |
| Ytterbium | 176-1 | 1807 | 1887 | 2017 | 1903 | 5.57 | cps |
| Ytterbium | 176-2 | 277 | 337 | 320 | 311 | 9.96 | cps |
| Yttrium | 89-1 | 29037685 | 28578779 | 29199410 | 28938625 | 1.11 | cps |
| Yttrium | 89-2 | 2153973 | 2143739 | 2121190 | 2139634 | 0.78 | cps |
| Zinc | 66-2 | 1157 | 1200 | 1143 | 1167 | 2.54 | cps |
| Zirconium | 90-1 | 2357 | 2590 | 2464 | 2470 | 4.73 | cps |
| Zirconium | 91-1 | 543 | 457 | 600 | 533 | 13.54 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 397 | 387 | 390 | 391 | 1.30 | cps |
| Antimony | 121-1 | 280 | 250 | 210 | 247 | 14.24 | cps |
| Arsenic | 75-2 | 40 | 50 | 57 | 49 | 17.16 | cps |
| Barium | 135-1 | 63568 | 64640 | 64914 | 64374 | 1.10 | cps |
| Barium | 137-1 | 110551 | 113976 | 114721 | 113083 | 1.97 | cps |
| Beryllium | 9-1 | 460 | 442 | 426 | 443 | 3.81 | cps |
| Bismuth | 209-1 | 12115255 | 11883456 | 11966696 | 11988469 | 0.98 | cps |
| Bismuth | 209-2 | 5328856 | 5014794 | 5045169 | 5129606 | 3.38 | cps |
| Bromine | 81-1 | 123334 | 130436 | 135110 | 129627 | 4.57 | cps |
| Cadmium | 108-1 | 30 | 27 | 20 | 26 | 19.92 | cps |
| Cadmium | 106-1 | 8886 | 8783 | 8253 | 8641 | 3.94 | cps |
| Cadmium | 111-1 | 6216 | 6153 | 5789 | 6053 | 3.80 | cps |
| Calcium | 43-1 | 16879150 | 17030915 | 16921138 | 16943734 | 0.46 | cps |
| Calcium | 44-1 | 272777949 | 272243243 | 271240096 | 272087096 | 0.29 | cps |
| Carbon | 12-1 | 9453667 | 10246489 | 10874255 | 10191470 | 6.99 | cps |
| Carbon | 12-2 | 72708 | 73154 | 74715 | 73526 | 1.43 | cps |
| Chlorine | 35-1 | 3578181 | 3728729 | 3822270 | 3709727 | 3.32 | cps |
| Chlorine | 35-2 | 15665 | 15679 | 15722 | 15689 | 0.19 | cps |
| Chromium | 52-2 | 1887 | 1737 | 1763 | 1796 | 4.46 | cps |
| Cobalt | 59-2 | 210 | 317 | 320 | 282 | 22.17 | cps |
| Copper | 63-2 | 5708 | 5971 | 5808 | 5829 | 2.28 | cps |
| Dysprosium | 156-1 | 127 | 97 | 120 | 114 | 13.76 | cps |
| Dysprosium | 156-2 | 30 | 53 | 40 | 41 | 28.47 | cps |
| Erbium | 164-1 | 243 | 237 | 293 | 258 | 12.02 | cps |
| Erbium | 164-2 | 80 | 63 | 73 | 72 | 11.62 | cps |
| Gadolinium | 160-1 | 263 | 250 | 243 | 252 | 4.04 | cps |
| Gadolinium | 160-2 | 67 | 57 | 63 | 62 | 8.18 | cps |
| Holmium | 165-1 | 19911371 | 20045829 | 20098154 | 20018451 | 0.48 | cps |
| Holmium | 165-2 | 7536232 | 7166411 | 7321111 | 7341251 | 2.53 | cps |
| Indium | 115-1 | 16624180 | 16369518 | 16305538 | 16433079 | 1.03 | cps |
| Indium | 115-2 | 1708961 | 1586971 | 1658449 | 1651460 | 3.71 | cps |
| Iron | 54-2 | 103934 | 103488 | 104404 | 103942 | 0.44 | cps |
| Iron | 56-2 | 1992493 | 2010568 | 2023282 | 2008781 | 0.77 | cps |
| Iron | 57-2 | 48215 | 48753 | 47576 | 48181 | 1.22 | cps |
| Krypton | 83-1 | 290 | 270 | 287 | 282 | 3.80 | cps |
| Lead | 206-1 | 2460 | 2427 | 2444 | 2444 | 0.68 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2164 | 2127 | 2184 | 2158 | 1.33 | cps |
| Lead | 208-1 | 9948 | 9878 | 9892 | 9906 | 0.38 | cps |
| Lithium | 6-1 | 9628284 | 9531837 | 9392822 | 9517648 | 1.24 | cps |
| Magnesium | 24-2 | 21080655 | 20945144 | 20832662 | 20952820 | 0.59 | cps |
| Manganese | 55-2 | 135641 | 136482 | 136048 | 136057 | 0.31 | cps |
| Molybdenum | 94-1 | 2240 | 2454 | 2280 | 2325 | 4.88 | cps |
| Molybdenum | 95-1 | 2840 | 2787 | 2810 | 2813 | 0.95 | cps |
| Molybdenum | 96-1 | 3044 | 3107 | 3380 | 3177 | 5.63 | cps |
| Molybdenum | 97-1 | 1767 | 1680 | 1757 | 1735 | 2.73 | cps |
| Molybdenum | 98-1 | 4404 | 4407 | 4761 | 4524 | 4.53 | cps |
| Neodymium | 150-1 | 83 | 60 | 77 | 73 | 16.39 | cps |
| Neodymium | 150-2 | 27 | 10 | 10 | 16 | 61.87 | cps |
| Nickel | 60-2 | 1117 | 1240 | 1243 | 1200 | 6.02 | cps |
| Phosphorus | 31-2 | 363 | 370 | 357 | 363 | 1.84 | cps |
| Potassium | 39-2 | 509913 | 506186 | 509654 | 508584 | 0.41 | cps |
| Rhodium | 103-1 | 14907113 | 15117504 | 14845278 | 14956631 | 0.95 | cps |
| Rhodium | 103-2 | 6234132 | 5821223 | 5993258 | 6016204 | 3.45 | cps |
| Scandium | 45-1 | 12186789 | 11986036 | 12169371 | 12114065 | 0.92 | cps |
| Scandium | 45-2 | 239978 | 228634 | 232678 | 233763 | 2.46 | cps |
| Selenium | 82-1 | 137 | 250 | 137 | 174 | 37.51 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 0 | 7 | 10 | 6 | 91.64 | cps |
| Silicon | 28-1 | 82602847 | 82533129 | 83011359 | 82715778 | 0.31 | cps |
| Silver | 107-1 | 557 | 570 | 540 | 556 | 2.71 | cps |
| Silver | 109-1 | 223 | 247 | 210 | 227 | 8.19 | cps |
| Sodium | 23-2 | 15285588 | 14951350 | 14798661 | 15011866 | 1.66 | cps |
| Strontium | 86-1 | 81007784 | 84049240 | 83601427 | 82886150 | 1.98 | cps |
| Strontium | 88-1 | 690711990 | 709671696 | 722087403 | 707490363 | 2.23 | cps |
| Sulfur | 34-1 | 24176405 | 23887639 | 24160975 | 24075007 | 0.67 | cps |
| Terbium | 159-1 | 20950452 | 20535490 | 20669435 | 20718459 | 1.02 | cps |
| Terbium | 159-2 | 7289936 | 6762041 | 7018434 | 7023470 | 3.76 | cps |
| Thallium | 203-1 | 257 | 270 | 277 | 268 | 3.80 | cps |
| Thallium | 205-1 | 587 | 647 | 607 | 613 | 4.98 | cps |
| Tin | 118-1 | 7125 | 7582 | 7279 | 7329 | 3.17 | cps |
| Titanium | 47-1 | 1893 | 2047 | 1760 | 1900 | 7.55 | cps |
| Uranium | 238-1 | 7159 | 7109 | 7102 | 7123 | 0.44 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-13 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2994 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:10:44 | DataFile Name : | 073AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 180 | 150 | 213 | 181 | 17.49 | cps |
| Ytterbium | 172-1 | 150 | 187 | 187 | 174 | 12.14 | cps |
| Ytterbium | 172-2 | 87 | 90 | 83 | 87 | 3.85 | cps |
| Ytterbium | 176-1 | 1900 | 1910 | 1770 | 1860 | 4.20 | cps |
| Ytterbium | 176-2 | 280 | 307 | 340 | 309 | 9.73 | cps |
| Yttrium | 89-1 | 29585090 | 29300113 | 28728282 | 29204495 | 1.49 | cps |
| Yttrium | 89-2 | 2226445 | 2065947 | 2147747 | 2146713 | 3.74 | cps |
| Zinc | 66-2 | 1020 | 960 | 907 | 962 | 5.89 | cps |
| Zirconium | 90-1 | 1933 | 1967 | 1877 | 1926 | 2.36 | cps |
| Zirconium | 91-1 | 350 | 410 | 340 | 367 | 10.33 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 620 | 620 | 620 | 620 | 0.00 | cps |
| Antimony | 121-1 | 227 | 173 | 203 | 201 | 13.29 | cps |
| Arsenic | 75-2 | 523 | 587 | 630 | 580 | 9.25 | cps |
| Barium | 135-1 | 60146 | 60106 | 61928 | 60726 | 1.71 | cps |
| Barium | 137-1 | 105904 | 106368 | 108666 | 106979 | 1.38 | cps |
| Beryllium | 9-1 | 422 | 425 | 394 | 414 | 4.20 | cps |
| Bismuth | 209-1 | 11601505 | 11578657 | 11599081 | 11593081 | 0.11 | cps |
| Bismuth | 209-2 | 5044893 | 5102707 | 5077042 | 5074881 | 0.57 | cps |
| Bromine | 81-1 | 160142 | 196006 | 213152 | 189767 | 14.25 | cps |
| Cadmium | 108-1 | 33 | 37 | 27 | 32 | 15.80 | cps |
| Cadmium | 106-1 | 8296 | 8553 | 8506 | 8452 | 1.62 | cps |
| Cadmium | 111-1 | 5804 | 5975 | 5952 | 5910 | 1.57 | cps |
| Calcium | 43-1 | 24024865 | 24337981 | 24575805 | 24312884 | 1.14 | cps |
| Calcium | 44-1 | 386637448 | 391148368 | 393550407 | 390445408 | 0.90 | cps |
| Carbon | 12-1 | 11185850 | 11987946 | 12547663 | 11907153 | 5.75 | cps |
| Carbon | 12-2 | 83177 | 84296 | 84169 | 83881 | 0.73 | cps |
| Chlorine | 35-1 | 10454040 | 11979212 | 12370593 | 11601281 | 8.73 | cps |
| Chlorine | 35-2 | 52883 | 53940 | 53900 | 53574 | 1.12 | cps |
| Chromium | 52-2 | 1603 | 1510 | 1713 | 1609 | 6.33 | cps |
| Cobalt | 59-2 | 660 | 667 | 730 | 686 | 5.64 | cps |
| Copper | 63-2 | 5655 | 5464 | 5805 | 5641 | 3.02 | cps |
| Dysprosium | 156-1 | 140 | 113 | 97 | 117 | 18.73 | cps |
| Dysprosium | 156-2 | 37 | 43 | 37 | 39 | 9.89 | cps |
| Erbium | 164-1 | 180 | 210 | 167 | 186 | 11.96 | cps |
| Erbium | 164-2 | 53 | 80 | 90 | 74 | 25.46 | cps |
| Gadolinium | 160-1 | 157 | 243 | 250 | 217 | 24.03 | cps |
| Gadolinium | 160-2 | 80 | 77 | 77 | 78 | 2.47 | cps |
| Holmium | 165-1 | 20239297 | 19981952 | 20470728 | 20230659 | 1.21 | cps |
| Holmium | 165-2 | 7560688 | 7392652 | 7388514 | 7447285 | 1.32 | cps |
| Indium | 115-1 | 16130214 | 16256503 | 16081751 | 16156156 | 0.56 | cps |
| Indium | 115-2 | 1677659 | 1693780 | 1684591 | 1685343 | 0.48 | cps |
| Iron | 54-2 | 424006 | 424411 | 431534 | 426650 | 0.99 | cps |
| Iron | 56-2 | 8046606 | 8145991 | 8122571 | 8105056 | 0.64 | cps |
| Iron | 57-2 | 195998 | 196512 | 196379 | 196296 | 0.14 | cps |
| Krypton | 83-1 | 343 | 380 | 310 | 344 | 10.16 | cps |
| Lead | 206-1 | 2107 | 2150 | 2204 | 2154 | 2.25 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1753 | 1730 | 1660 | 1715 | 2.83 | cps |
| Lead | 208-1 | 8161 | 8188 | 8201 | 8183 | 0.25 | cps |
| Lithium | 6-1 | 9314269 | 9554572 | 9576295 | 9481712 | 1.53 | cps |
| Magnesium | 24-2 | 28700966 | 28619684 | 28279816 | 28533489 | 0.78 | cps |
| Manganese | 55-2 | 288332 | 290501 | 288506 | 289113 | 0.42 | cps |
| Molybdenum | 94-1 | 6261 | 6585 | 6181 | 6343 | 3.37 | cps |
| Molybdenum | 95-1 | 9276 | 9460 | 9690 | 9476 | 2.19 | cps |
| Molybdenum | 96-1 | 9934 | 9677 | 10571 | 10060 | 4.58 | cps |
| Molybdenum | 97-1 | 5785 | 5931 | 5998 | 5905 | 1.85 | cps |
| Molybdenum | 98-1 | 14341 | 14871 | 14818 | 14677 | 1.99 | cps |
| Neodymium | 150-1 | 153 | 140 | 113 | 136 | 15.02 | cps |
| Neodymium | 150-2 | 17 | 27 | 37 | 27 | 37.50 | cps |
| Nickel | 60-2 | 2044 | 1823 | 2034 | 1967 | 6.32 | cps |
| Phosphorus | 31-2 | 237 | 237 | 223 | 232 | 3.31 | cps |
| Potassium | 39-2 | 794685 | 797791 | 795951 | 796142 | 0.20 | cps |
| Rhodium | 103-1 | 14333708 | 14910866 | 14555048 | 14599874 | 1.99 | cps |
| Rhodium | 103-2 | 6063829 | 5991875 | 6023975 | 6026560 | 0.60 | cps |
| Scandium | 45-1 | 11823234 | 12053936 | 12091001 | 11989390 | 1.21 | cps |
| Scandium | 45-2 | 236326 | 235438 | 237881 | 236548 | 0.52 | cps |
| Selenium | 82-1 | 87 | 73 | 177 | 112 | 50.08 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 3 | 20 | 0 | 8 | 137.80 | cps |
| Silicon | 28-1 | 97164322 | 98383869 | 98771059 | 98106416 | 0.85 | cps |
| Silver | 107-1 | 547 | 463 | 623 | 544 | 14.70 | cps |
| Silver | 109-1 | 257 | 210 | 230 | 232 | 10.08 | cps |
| Sodium | 23-2 | 48989553 | 47938571 | 48319276 | 48415800 | 1.10 | cps |
| Strontium | 86-1 | 73876006 | 75670229 | 76250079 | 75265438 | 1.64 | cps |
| Strontium | 88-1 | 650338417 | 651986884 | 655922657 | 652749319 | 0.44 | cps |
| Sulfur | 34-1 | 33818589 | 34841997 | 34789839 | 34483475 | 1.67 | cps |
| Terbium | 159-1 | 20340421 | 20494837 | 20616053 | 20483770 | 0.67 | cps |
| Terbium | 159-2 | 7104822 | 7104859 | 7060424 | 7090035 | 0.36 | cps |
| Thallium | 203-1 | 247 | 260 | 277 | 261 | 5.76 | cps |
| Thallium | 205-1 | 597 | 640 | 557 | 598 | 6.97 | cps |
| Tin | 118-1 | 4724 | 5184 | 4914 | 4941 | 4.68 | cps |
| Titanium | 47-1 | 2137 | 2150 | 2237 | 2175 | 2.50 | cps |
| Uranium | 238-1 | 9650 | 9997 | 9967 | 9872 | 1.95 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-14 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2995 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:13:58 | DataFile Name : | 074AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 253 | 250 | 313 | 272 | 13.09 | cps |
| Ytterbium | 172-1 | 140 | 147 | 123 | 137 | 8.79 | cps |
| Ytterbium | 172-2 | 57 | 40 | 50 | 49 | 17.16 | cps |
| Ytterbium | 176-1 | 1880 | 1994 | 2000 | 1958 | 3.45 | cps |
| Ytterbium | 176-2 | 310 | 290 | 347 | 316 | 9.11 | cps |
| Yttrium | 89-1 | 28916550 | 29350061 | 29245642 | 29170751 | 0.78 | cps |
| Yttrium | 89-2 | 2200716 | 2188531 | 2171219 | 2186822 | 0.68 | cps |
| Zinc | 66-2 | 343 | 340 | 353 | 346 | 2.01 | cps |
| Zirconium | 90-1 | 2790 | 2810 | 2714 | 2771 | 1.84 | cps |
| Zirconium | 91-1 | 583 | 617 | 563 | 588 | 4.58 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3866840 | 3839938 | 3811867 | 3839548 | 0.72 | cps |
| Antimony | 121-1 | 8599857 | 8561651 | 8509442 | 8556983 | 0.53 | cps |
| Arsenic | 75-2 | 180507 | 180047 | 181651 | 180735 | 0.46 | cps |
| Barium | 135-1 | 10247205 | 10364931 | 10341698 | 10317944 | 0.60 | cps |
| Barium | 137-1 | 17825844 | 18028054 | 17828047 | 17893982 | 0.65 | cps |
| Beryllium | 9-1 | 3204026 | 3132120 | 3179670 | 3171939 | 1.15 | cps |
| Bismuth | 209-1 | 11256602 | 11125359 | 11346154 | 11242705 | 0.99 | cps |
| Bismuth | 209-2 | 4832286 | 4924220 | 4897235 | 4884580 | 0.97 | cps |
| Bromine | 81-1 | 49293 | 46253 | 43006 | 46184 | 6.81 | cps |
| Cadmium | 108-1 | 163810 | 165477 | 165764 | 165017 | 0.64 | cps |
| Cadmium | 106-1 | 242091 | 245226 | 243561 | 243626 | 0.64 | cps |
| Cadmium | 111-1 | 2022986 | 2070595 | 2107513 | 2067031 | 2.05 | cps |
| Calcium | 43-1 | 14387784 | 14506459 | 14370337 | 14421527 | 0.51 | cps |
| Calcium | 44-1 | 233053303 | 233582030 | 234332843 | 233656059 | 0.28 | cps |
| Carbon | 12-1 | 7415317 | 7453227 | 7381544 | 7416696 | 0.48 | cps |
| Carbon | 12-2 | 53657 | 53038 | 52744 | 53147 | 0.88 | cps |
| Chlorine | 35-1 | 1369484 | 1306937 | 1271035 | 1315819 | 3.79 | cps |
| Chlorine | 35-2 | 4714 | 4561 | 4321 | 4532 | 4.38 | cps |
| Chromium | 52-2 | 2058682 | 2099141 | 2098608 | 2085477 | 1.11 | cps |
| Cobalt | 59-2 | 3778658 | 3815775 | 3838653 | 3811029 | 0.79 | cps |
| Copper | 63-2 | 27771220 | 27507423 | 28315614 | 27864752 | 1.48 | cps |
| Dysprosium | 156-1 | 470 | 440 | 503 | 471 | 6.73 | cps |
| Dysprosium | 156-2 | 147 | 90 | 120 | 119 | 23.85 | cps |
| Erbium | 164-1 | 447 | 507 | 437 | 463 | 8.17 | cps |
| Erbium | 164-2 | 137 | 180 | 137 | 151 | 16.55 | cps |
| Gadolinium | 160-1 | 393 | 463 | 403 | 420 | 9.02 | cps |
| Gadolinium | 160-2 | 173 | 150 | 170 | 164 | 7.68 | cps |
| Holmium | 165-1 | 19713788 | 19928929 | 19924209 | 19855642 | 0.62 | cps |
| Holmium | 165-2 | 7400188 | 7187266 | 7166079 | 7251178 | 1.79 | cps |
| Indium | 115-1 | 15034563 | 15309512 | 15483666 | 15275914 | 1.48 | cps |
| Indium | 115-2 | 1576257 | 1584558 | 1619147 | 1593321 | 1.43 | cps |
| Iron | 54-2 | 19847032 | 20305835 | 20228752 | 20127206 | 1.22 | cps |
| Iron | 56-2 | 362144555 | 362281848 | 374463741 | 366296715 | 1.93 | cps |
| Iron | 57-2 | 9200416 | 9090730 | 9368341 | 9219829 | 1.52 | cps |
| Krypton | 83-1 | 297 | 277 | 300 | 291 | 4.34 | cps |
| Lead | 206-1 | 32259020 | 32793116 | 32548760 | 32533632 | 0.82 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27274639 | 27971902 | 27450890 | 27565810 | 1.32 | cps |
| Lead | 208-1 | 127561816 | 128482676 | 128419596 | 128154696 | 0.40 | cps |
| Lithium | 6-1 | 9182515 | 8691161 | 9021579 | 8965085 | 2.79 | cps |
| Magnesium | 24-2 | 66686411 | 67632842 | 67725426 | 67348226 | 0.85 | cps |
| Manganese | 55-2 | 8117797 | 8266432 | 8350592 | 8244940 | 1.43 | cps |
| Molybdenum | 94-1 | 31261647 | 31271076 | 31677244 | 31403322 | 0.76 | cps |
| Molybdenum | 95-1 | 44557108 | 43891089 | 44961633 | 44469943 | 1.22 | cps |
| Molybdenum | 96-1 | 48940056 | 48286618 | 48564941 | 48597205 | 0.67 | cps |
| Molybdenum | 97-1 | 27573120 | 27278392 | 27630800 | 27494104 | 0.69 | cps |
| Molybdenum | 98-1 | 71412134 | 71203232 | 71907409 | 71507592 | 0.51 | cps |
| Neodymium | 150-1 | 790 | 833 | 843 | 822 | 3.45 | cps |
| Neodymium | 150-2 | 80 | 67 | 90 | 79 | 14.84 | cps |
| Nickel | 60-2 | 964326 | 962638 | 985520 | 970828 | 1.31 | cps |
| Phosphorus | 31-2 | 37281 | 36656 | 37552 | 37163 | 1.24 | cps |
| Potassium | 39-2 | 19329416 | 19628011 | 19711453 | 19556293 | 1.03 | cps |
| Rhodium | 103-1 | 14015950 | 13970277 | 13977854 | 13988027 | 0.17 | cps |
| Rhodium | 103-2 | 5758948 | 5730191 | 5674987 | 5721375 | 0.75 | cps |
| Scandium | 45-1 | 11582426 | 11460268 | 11527578 | 11523424 | 0.53 | cps |
| Scandium | 45-2 | 230971 | 232161 | 232190 | 231774 | 0.30 | cps |
| Selenium | 82-1 | 125176 | 126739 | 124882 | 125599 | 0.79 | cps |
| Selenium | 77-2 | 2220 | 2374 | 2157 | 2250 | 4.95 | cps |
| Selenium | 78-2 | 7736 | 7479 | 7906 | 7707 | 2.79 | cps |
| Silicon | 28-1 | 7711792 | 7745811 | 7831552 | 7763052 | 0.79 | cps |
| Silver | 107-1 | 10427449 | 10387767 | 10295189 | 10370135 | 0.65 | cps |
| Silver | 109-1 | 9720970 | 9743021 | 9732005 | 9731999 | 0.11 | cps |
| Sodium | 23-2 | 131912235 | 137950318 | 137258535 | 135707029 | 2.44 | cps |
| Strontium | 86-1 | 2900570 | 2917227 | 2906100 | 2907965 | 0.29 | cps |
| Strontium | 88-1 | 24766373 | 25229655 | 24941694 | 24979241 | 0.94 | cps |
| Sulfur | 34-1 | 1665921 | 1687889 | 1661256 | 1671689 | 0.85 | cps |
| Terbium | 159-1 | 20109921 | 20361201 | 20258897 | 20243340 | 0.62 | cps |
| Terbium | 159-2 | 6911917 | 6881204 | 7003342 | 6932155 | 0.92 | cps |
| Thallium | 203-1 | 7946281 | 8077551 | 8075714 | 8033182 | 0.94 | cps |
| Thallium | 205-1 | 18984031 | 18874837 | 19136822 | 18998563 | 0.69 | cps |
| Tin | 118-1 | 6848028 | 6918715 | 6825808 | 6864184 | 0.71 | cps |
| Titanium | 47-1 | 14289458 | 14149886 | 14153837 | 14197727 | 0.56 | cps |
| Uranium | 238-1 | 26341097 | 25832433 | 26258488 | 26144006 | 1.04 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:17:15 | DataFile Name : | 075CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1623814 | 1639150 | 1641380 | 1634781 | 0.59 | cps |
| Ytterbium | 172-1 | 500 | 527 | 483 | 503 | 4.34 | cps |
| Ytterbium | 172-2 | 253 | 227 | 230 | 237 | 6.14 | cps |
| Ytterbium | 176-1 | 40392 | 40799 | 40572 | 40588 | 0.50 | cps |
| Ytterbium | 176-2 | 14431 | 14571 | 14805 | 14603 | 1.29 | cps |
| Yttrium | 89-1 | 28371661 | 28505194 | 28467234 | 28448030 | 0.24 | cps |
| Yttrium | 89-2 | 2112274 | 2092549 | 2173764 | 2126196 | 1.99 | cps |
| Zinc | 66-2 | 3027343 | 3016908 | 3072345 | 3038865 | 0.97 | cps |
| Zirconium | 90-1 | 15620001 | 15728693 | 15708817 | 15685837 | 0.37 | cps |
| Zirconium | 91-1 | 3450699 | 3494986 | 3508397 | 3484694 | 0.87 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 190 | 220 | 163 | 191 | 14.83 | cps |
| Antimony | 121-1 | 2910 | 2330 | 2180 | 2474 | 15.59 | cps |
| Arsenic | 75-2 | 23 | 7 | 13 | 14 | 58.06 | cps |
| Barium | 135-1 | 583 | 470 | 447 | 500 | 14.62 | cps |
| Barium | 137-1 | 1137 | 810 | 777 | 908 | 21.91 | cps |
| Beryllium | 9-1 | 1527 | 1424 | 1322 | 1424 | 7.20 | cps |
| Bismuth | 209-1 | 13071260 | 12963999 | 12997889 | 13011049 | 0.42 | cps |
| Bismuth | 209-2 | 5570537 | 5646091 | 5596871 | 5604499 | 0.68 | cps |
| Bromine | 81-1 | 23276 | 22558 | 20959 | 22264 | 5.33 | cps |
| Cadmium | 108-1 | 57 | 33 | 30 | 40 | 36.33 | cps |
| Cadmium | 106-1 | 8860 | 8516 | 8656 | 8677 | 1.99 | cps |
| Cadmium | 111-1 | 6369 | 6081 | 6188 | 6213 | 2.34 | cps |
| Calcium | 43-1 | 1687 | 1233 | 1177 | 1366 | 20.47 | cps |
| Calcium | 44-1 | 52616 | 47749 | 45549 | 48638 | 7.44 | cps |
| Carbon | 12-1 | 5551628 | 5513271 | 5512024 | 5525641 | 0.41 | cps |
| Carbon | 12-2 | 34247 | 34607 | 33395 | 34083 | 1.83 | cps |
| Chlorine | 35-1 | 835001 | 802523 | 783538 | 807020 | 3.22 | cps |
| Chlorine | 35-2 | 2934 | 3084 | 2870 | 2963 | 3.70 | cps |
| Chromium | 52-2 | 1603 | 1763 | 1737 | 1701 | 5.04 | cps |
| Cobalt | 59-2 | 243 | 237 | 253 | 244 | 3.43 | cps |
| Copper | 63-2 | 5921 | 5668 | 5398 | 5662 | 4.62 | cps |
| Dysprosium | 156-1 | 17 | 7 | 27 | 17 | 59.99 | cps |
| Dysprosium | 156-2 | 13 | 0 | 0 | 4 | 173.21 | cps |
| Erbium | 164-1 | 90 | 73 | 97 | 87 | 13.87 | cps |
| Erbium | 164-2 | 40 | 43 | 40 | 41 | 4.68 | cps |
| Gadolinium | 160-1 | 93 | 83 | 150 | 109 | 33.02 | cps |
| Gadolinium | 160-2 | 27 | 30 | 33 | 30 | 11.10 | cps |
| Holmium | 165-1 | 21092273 | 20638318 | 20876527 | 20869040 | 1.09 | cps |
| Holmium | 165-2 | 7485989 | 7516689 | 7545856 | 7516178 | 0.40 | cps |
| Indium | 115-1 | 17443802 | 17445517 | 17192692 | 17360670 | 0.84 | cps |
| Indium | 115-2 | 1782969 | 1783851 | 1744217 | 1770346 | 1.28 | cps |
| Iron | 54-2 | 1290 | 1350 | 1253 | 1298 | 3.76 | cps |
| Iron | 56-2 | 20224 | 20438 | 20305 | 20322 | 0.53 | cps |
| Iron | 57-2 | 517 | 430 | 440 | 462 | 10.26 | cps |
| Krypton | 83-1 | 273 | 343 | 283 | 300 | 12.62 | cps |
| Lead | 206-1 | 5745 | 4951 | 4684 | 5127 | 10.76 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4824 | 4414 | 3901 | 4380 | 10.57 | cps |
| Lead | 208-1 | 22555 | 19596 | 18392 | 20181 | 10.61 | cps |
| Lithium | 6-1 | 10052540 | 9999569 | 9853094 | 9968401 | 1.04 | cps |
| Magnesium | 24-2 | 3944 | 3834 | 4111 | 3963 | 3.52 | cps |
| Manganese | 55-2 | 463 | 490 | 487 | 480 | 3.03 | cps |
| Molybdenum | 94-1 | 2900 | 2284 | 2140 | 2441 | 16.54 | cps |
| Molybdenum | 95-1 | 3467 | 2424 | 2174 | 2688 | 25.53 | cps |
| Molybdenum | 96-1 | 3837 | 2940 | 2617 | 3132 | 20.19 | cps |
| Molybdenum | 97-1 | 2170 | 1720 | 1547 | 1812 | 17.76 | cps |
| Molybdenum | 98-1 | 5234 | 4254 | 3397 | 4295 | 21.40 | cps |
| Neodymium | 150-1 | 13 | 3 | 10 | 9 | 57.30 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 970 | 1027 | 1073 | 1023 | 5.06 | cps |
| Phosphorus | 31-2 | 63 | 63 | 80 | 69 | 13.97 | cps |
| Potassium | 39-2 | 18215 | 18619 | 18061 | 18298 | 1.57 | cps |
| Rhodium | 103-1 | 16190313 | 15757209 | 16324618 | 16090713 | 1.84 | cps |
| Rhodium | 103-2 | 6570028 | 6595127 | 6613907 | 6593021 | 0.33 | cps |
| Scandium | 45-1 | 12444255 | 12082356 | 12336104 | 12287572 | 1.51 | cps |
| Scandium | 45-2 | 239181 | 241988 | 240093 | 240421 | 0.60 | cps |
| Selenium | 82-1 | 67 | -13 | -10 | 14 | 313.27 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 0 | 13 | 3 | 6 | 124.93 | cps |
| Silicon | 28-1 | 737319 | 724841 | 717494 | 726551 | 1.38 | cps |
| Silver | 107-1 | 1984 | 1693 | 1420 | 1699 | 16.58 | cps |
| Silver | 109-1 | 1703 | 1390 | 1337 | 1477 | 13.42 | cps |
| Sodium | 23-2 | 86450 | 84563 | 84426 | 85146 | 1.33 | cps |
| Strontium | 86-1 | 1110 | 950 | 1033 | 1031 | 7.76 | cps |
| Strontium | 88-1 | 6625 | 4911 | 4718 | 5418 | 19.38 | cps |
| Sulfur | 34-1 | 831239 | 838077 | 839174 | 836163 | 0.51 | cps |
| Terbium | 159-1 | 21110326 | 21120716 | 21320952 | 21183998 | 0.56 | cps |
| Terbium | 159-2 | 7296067 | 7333641 | 7359299 | 7329669 | 0.43 | cps |
| Thallium | 203-1 | 1317 | 1030 | 970 | 1106 | 16.76 | cps |
| Thallium | 205-1 | 2917 | 2554 | 2307 | 2593 | 11.84 | cps |
| Tin | 118-1 | 3404 | 3314 | 3254 | 3324 | 2.27 | cps |
| Titanium | 47-1 | 1010 | 817 | 700 | 842 | 18.59 | cps |
| Uranium | 238-1 | 1500 | 1157 | 917 | 1191 | 24.62 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:19:59 | DataFile Name : | 076CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 57 | 67 | 60 | 61 | 8.33 | cps |
| Ytterbium | 172-1 | 120 | 133 | 90 | 114 | 19.40 | cps |
| Ytterbium | 172-2 | 60 | 40 | 37 | 46 | 27.70 | cps |
| Ytterbium | 176-1 | 1957 | 1833 | 1970 | 1920 | 3.92 | cps |
| Ytterbium | 176-2 | 380 | 350 | 307 | 346 | 10.67 | cps |
| Yttrium | 89-1 | 30671960 | 30230652 | 30630727 | 30511113 | 0.80 | cps |
| Yttrium | 89-2 | 2244046 | 2236655 | 2210887 | 2230530 | 0.78 | cps |
| Zinc | 66-2 | 373 | 303 | 237 | 304 | 22.45 | cps |
| Zirconium | 90-1 | 2590 | 2300 | 1937 | 2276 | 14.39 | cps |
| Zirconium | 91-1 | 547 | 390 | 427 | 454 | 18.03 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 337 | 350 | 307 | 331 | 6.70 | cps |
| Antimony | 121-1 | 1267 | 1120 | 1263 | 1217 | 6.88 | cps |
| Arsenic | 75-2 | 100 | 97 | 90 | 96 | 5.33 | cps |
| Barium | 135-1 | 132975 | 138830 | 137537 | 136447 | 2.25 | cps |
| Barium | 137-1 | 235938 | 238205 | 238769 | 237637 | 0.63 | cps |
| Beryllium | 9-1 | 894 | 852 | 782 | 843 | 6.67 | cps |
| Bismuth | 209-1 | 11456738 | 11526239 | 12016847 | 11666608 | 2.62 | cps |
| Bismuth | 209-2 | 5162846 | 5127405 | 4971035 | 5087095 | 2.01 | cps |
| Bromine | 81-1 | 412088 | 523659 | 594553 | 510100 | 18.03 | cps |
| Cadmium | 108-1 | 63 | 57 | 63 | 61 | 6.29 | cps |
| Cadmium | 106-1 | 8356 | 8229 | 8426 | 8337 | 1.20 | cps |
| Cadmium | 111-1 | 5858 | 5807 | 5954 | 5873 | 1.27 | cps |
| Calcium | 43-1 | 17831972 | 17843691 | 18067046 | 17914236 | 0.74 | cps |
| Calcium | 44-1 | 289716162 | 293032256 | 294117362 | 292288593 | 0.78 | cps |
| Carbon | 12-1 | 8678256 | 9627289 | 10253857 | 9519800 | 8.33 | cps |
| Carbon | 12-2 | 69259 | 72106 | 70766 | 70710 | 2.01 | cps |
| Chlorine | 35-1 | 8419317 | 9391608 | 10014026 | 9274983 | 8.67 | cps |
| Chlorine | 35-2 | 42489 | 42807 | 42713 | 42669 | 0.38 | cps |
| Chromium | 52-2 | 1727 | 1707 | 1700 | 1711 | 0.81 | cps |
| Cobalt | 59-2 | 13613 | 13440 | 13330 | 13461 | 1.06 | cps |
| Copper | 63-2 | 5191 | 5238 | 5221 | 5217 | 0.45 | cps |
| Dysprosium | 156-1 | 37 | 67 | 40 | 48 | 34.42 | cps |
| Dysprosium | 156-2 | 20 | 17 | 30 | 22 | 31.22 | cps |
| Erbium | 164-1 | 117 | 180 | 140 | 146 | 22.00 | cps |
| Erbium | 164-2 | 47 | 43 | 23 | 38 | 33.41 | cps |
| Gadolinium | 160-1 | 223 | 137 | 180 | 180 | 24.07 | cps |
| Gadolinium | 160-2 | 33 | 23 | 50 | 36 | 37.90 | cps |
| Holmium | 165-1 | 19367055 | 19551414 | 20345931 | 19754800 | 2.63 | cps |
| Holmium | 165-2 | 7288176 | 7521103 | 7118866 | 7309382 | 2.76 | cps |
| Indium | 115-1 | 15597630 | 16006404 | 16278247 | 15960760 | 2.15 | cps |
| Indium | 115-2 | 1658956 | 1711390 | 1634188 | 1668178 | 2.36 | cps |
| Iron | 54-2 | 136044 | 134553 | 137387 | 135994 | 1.04 | cps |
| Iron | 56-2 | 2554335 | 2599328 | 2595345 | 2583003 | 0.96 | cps |
| Iron | 57-2 | 62617 | 62228 | 64060 | 62968 | 1.53 | cps |
| Krypton | 83-1 | 273 | 297 | 253 | 274 | 7.90 | cps |
| Lead | 206-1 | 3364 | 3270 | 3227 | 3287 | 2.13 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3124 | 2720 | 2814 | 2886 | 7.32 | cps |
| Lead | 208-1 | 13593 | 12532 | 12683 | 12936 | 4.44 | cps |
| Lithium | 6-1 | 9324754 | 9367479 | 9523668 | 9405300 | 1.11 | cps |
| Magnesium | 24-2 | 20588823 | 21370641 | 20625794 | 20861753 | 2.11 | cps |
| Manganese | 55-2 | 490949 | 491850 | 493973 | 492257 | 0.32 | cps |
| Molybdenum | 94-1 | 27454 | 26983 | 26749 | 27062 | 1.33 | cps |
| Molybdenum | 95-1 | 43307 | 44049 | 44956 | 44104 | 1.87 | cps |
| Molybdenum | 96-1 | 47049 | 47628 | 48344 | 47674 | 1.36 | cps |
| Molybdenum | 97-1 | 27494 | 27918 | 27601 | 27671 | 0.80 | cps |
| Molybdenum | 98-1 | 69493 | 70049 | 71647 | 70396 | 1.59 | cps |
| Neodymium | 150-1 | 73 | 57 | 73 | 68 | 14.19 | cps |
| Neodymium | 150-2 | 3 | 7 | 10 | 7 | 50.03 | cps |
| Nickel | 60-2 | 4981 | 4914 | 4601 | 4832 | 4.20 | cps |
| Phosphorus | 31-2 | 123 | 150 | 103 | 126 | 18.65 | cps |
| Potassium | 39-2 | 531042 | 529908 | 535856 | 532269 | 0.59 | cps |
| Rhodium | 103-1 | 14484297 | 14582090 | 15157232 | 14741206 | 2.47 | cps |
| Rhodium | 103-2 | 6085918 | 5984367 | 5856211 | 5975499 | 1.93 | cps |
| Scandium | 45-1 | 11723376 | 11676641 | 12164866 | 11854961 | 2.27 | cps |
| Scandium | 45-2 | 238111 | 239784 | 227127 | 235007 | 2.93 | cps |
| Selenium | 82-1 | 237 | 197 | 400 | 278 | 38.78 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 17 | 10 | 17 | 14 | 26.66 | cps |
| Silicon | 28-1 | 103461605 | 105891772 | 103899895 | 104417757 | 1.24 | cps |
| Silver | 107-1 | 863 | 737 | 850 | 817 | 8.52 | cps |
| Silver | 109-1 | 607 | 530 | 533 | 557 | 7.78 | cps |
| Sodium | 23-2 | 31539367 | 31579212 | 31598235 | 31572271 | 0.10 | cps |
| Strontium | 86-1 | 63285314 | 64068482 | 63570972 | 63641590 | 0.62 | cps |
| Strontium | 88-1 | 542576819 | 555665565 | 557122765 | 551788383 | 1.45 | cps |
| Sulfur | 34-1 | 19496263 | 19500088 | 19910929 | 19635760 | 1.21 | cps |
| Terbium | 159-1 | 20268544 | 20405680 | 21204487 | 20626237 | 2.45 | cps |
| Terbium | 159-2 | 7173036 | 7145553 | 6873923 | 7064171 | 2.34 | cps |
| Thallium | 203-1 | 967 | 980 | 960 | 969 | 1.05 | cps |
| Thallium | 205-1 | 2110 | 2220 | 2144 | 2158 | 2.61 | cps |
| Tin | 118-1 | 3931 | 3967 | 3794 | 3897 | 2.34 | cps |
| Titanium | 47-1 | 2050 | 1943 | 2050 | 2015 | 3.06 | cps |
| Uranium | 238-1 | 152249 | 156038 | 157205 | 155164 | 1.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-15 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2999 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:23:19 | DataFile Name : | 077AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 110 | 113 | 100 | 108 | 6.44 | cps |
| Ytterbium | 172-1 | 147 | 190 | 160 | 166 | 13.41 | cps |
| Ytterbium | 172-2 | 60 | 53 | 67 | 60 | 11.12 | cps |
| Ytterbium | 176-1 | 1917 | 1930 | 1970 | 1939 | 1.43 | cps |
| Ytterbium | 176-2 | 283 | 287 | 310 | 293 | 4.95 | cps |
| Yttrium | 89-1 | 28088775 | 28979790 | 29248173 | 28772246 | 2.11 | cps |
| Yttrium | 89-2 | 2178127 | 2229531 | 2077033 | 2161564 | 3.59 | cps |
| Zinc | 66-2 | 697 | 760 | 770 | 742 | 5.36 | cps |
| Zirconium | 90-1 | 4367 | 3921 | 3817 | 4035 | 7.25 | cps |
| Zirconium | 91-1 | 910 | 783 | 860 | 851 | 7.50 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 747 | 770 | 743 | 753 | 1.93 | cps |
| Antimony | 121-1 | 983 | 957 | 1063 | 1001 | 5.55 | cps |
| Arsenic | 75-2 | 587 | 553 | 547 | 562 | 3.81 | cps |
| Barium | 135-1 | 283015 | 285335 | 291344 | 286564 | 1.50 | cps |
| Barium | 137-1 | 495071 | 503649 | 501945 | 500221 | 0.91 | cps |
| Beryllium | 9-1 | 722 | 810 | 689 | 740 | 8.45 | cps |
| Bismuth | 209-1 | 12042725 | 12077612 | 12111776 | 12077371 | 0.29 | cps |
| Bismuth | 209-2 | 5479943 | 5339460 | 5202348 | 5340584 | 2.60 | cps |
| Bromine | 81-1 | 137426 | 127009 | 116401 | 126945 | 8.28 | cps |
| Cadmium | 108-1 | 83 | 97 | 77 | 86 | 11.90 | cps |
| Cadmium | 106-1 | 8816 | 8679 | 8503 | 8666 | 1.81 | cps |
| Cadmium | 111-1 | 6210 | 6075 | 5965 | 6083 | 2.02 | cps |
| Calcium | 43-1 | 11561919 | 11679811 | 11750854 | 11664195 | 0.82 | cps |
| Calcium | 44-1 | 186085597 | 187613664 | 190320604 | 188006622 | 1.14 | cps |
| Carbon | 12-1 | 8977537 | 9838284 | 10140653 | 9652158 | 6.25 | cps |
| Carbon | 12-2 | 69758 | 70705 | 70990 | 70484 | 0.92 | cps |
| Chlorine | 35-1 | 2504718 | 2581131 | 2553689 | 2546513 | 1.52 | cps |
| Chlorine | 35-2 | 10247 | 9823 | 10084 | 10051 | 2.13 | cps |
| Chromium | 52-2 | 2334 | 2317 | 2357 | 2336 | 0.86 | cps |
| Cobalt | 59-2 | 10607 | 10497 | 10320 | 10475 | 1.38 | cps |
| Copper | 63-2 | 5241 | 5341 | 5428 | 5337 | 1.75 | cps |
| Dysprosium | 156-1 | 177 | 190 | 177 | 181 | 4.25 | cps |
| Dysprosium | 156-2 | 43 | 53 | 60 | 52 | 16.07 | cps |
| Erbium | 164-1 | 237 | 210 | 283 | 243 | 15.26 | cps |
| Erbium | 164-2 | 63 | 73 | 57 | 64 | 13.01 | cps |
| Gadolinium | 160-1 | 227 | 240 | 307 | 258 | 16.63 | cps |
| Gadolinium | 160-2 | 80 | 80 | 100 | 87 | 13.32 | cps |
| Holmium | 165-1 | 20520188 | 20567701 | 20664233 | 20584041 | 0.36 | cps |
| Holmium | 165-2 | 7693443 | 7625985 | 7589374 | 7636268 | 0.69 | cps |
| Indium | 115-1 | 16593653 | 16616115 | 16682409 | 16630726 | 0.28 | cps |
| Indium | 115-2 | 1785533 | 1734429 | 1713159 | 1744374 | 2.13 | cps |
| Iron | 54-2 | 100712 | 100513 | 100144 | 100456 | 0.29 | cps |
| Iron | 56-2 | 1889787 | 1931863 | 1950222 | 1923957 | 1.61 | cps |
| Iron | 57-2 | 46104 | 46322 | 45924 | 46117 | 0.43 | cps |
| Krypton | 83-1 | 280 | 327 | 277 | 294 | 9.49 | cps |
| Lead | 206-1 | 2930 | 2887 | 2914 | 2910 | 0.75 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2504 | 2554 | 2687 | 2581 | 3.67 | cps |
| Lead | 208-1 | 11459 | 11559 | 11539 | 11519 | 0.46 | cps |
| Lithium | 6-1 | 9655495 | 9747612 | 10027917 | 9810341 | 1.98 | cps |
| Magnesium | 24-2 | 23024753 | 23364395 | 23027329 | 23138825 | 0.84 | cps |
| Manganese | 55-2 | 260466 | 259361 | 262823 | 260883 | 0.68 | cps |
| Molybdenum | 94-1 | 58077 | 57819 | 59875 | 58590 | 1.91 | cps |
| Molybdenum | 95-1 | 96573 | 98822 | 99600 | 98332 | 1.60 | cps |
| Molybdenum | 96-1 | 104888 | 105860 | 106699 | 105816 | 0.86 | cps |
| Molybdenum | 97-1 | 60541 | 61756 | 60541 | 60946 | 1.15 | cps |
| Molybdenum | 98-1 | 155474 | 156578 | 160129 | 157394 | 1.55 | cps |
| Neodymium | 150-1 | 140 | 190 | 207 | 179 | 19.40 | cps |
| Neodymium | 150-2 | 50 | 50 | 47 | 49 | 3.93 | cps |
| Nickel | 60-2 | 7872 | 7852 | 7969 | 7898 | 0.79 | cps |
| Phosphorus | 31-2 | 133 | 117 | 160 | 137 | 15.99 | cps |
| Potassium | 39-2 | 509522 | 508543 | 519638 | 512568 | 1.20 | cps |
| Rhodium | 103-1 | 15183440 | 15291659 | 15364477 | 15279859 | 0.60 | cps |
| Rhodium | 103-2 | 6264131 | 6230788 | 6119908 | 6204943 | 1.22 | cps |
| Scandium | 45-1 | 12072953 | 12270324 | 12402418 | 12248565 | 1.35 | cps |
| Scandium | 45-2 | 249017 | 245445 | 239175 | 244546 | 2.04 | cps |
| Selenium | 82-1 | 167 | 107 | 127 | 133 | 22.91 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 20 | 23 | 20 | 21 | 9.11 | cps |
| Silicon | 28-1 | 96998472 | 98806009 | 99153999 | 98319493 | 1.18 | cps |
| Silver | 107-1 | 580 | 510 | 577 | 556 | 7.11 | cps |
| Silver | 109-1 | 287 | 283 | 300 | 290 | 3.04 | cps |
| Sodium | 23-2 | 17922098 | 17958284 | 17925574 | 17935318 | 0.11 | cps |
| Strontium | 86-1 | 37088914 | 37517277 | 37417298 | 37341163 | 0.60 | cps |
| Strontium | 88-1 | 320535842 | 322871035 | 323843695 | 322416857 | 0.53 | cps |
| Sulfur | 34-1 | 11865113 | 11974641 | 12041475 | 11960410 | 0.74 | cps |
| Terbium | 159-1 | 20792209 | 20779444 | 21181187 | 20917614 | 1.09 | cps |
| Terbium | 159-2 | 7414008 | 7406873 | 7175700 | 7332194 | 1.85 | cps |
| Thallium | 203-1 | 1010 | 967 | 923 | 967 | 4.48 | cps |
| Thallium | 205-1 | 2144 | 2234 | 2097 | 2158 | 3.22 | cps |
| Tin | 118-1 | 3957 | 3684 | 3784 | 3808 | 3.63 | cps |
| Titanium | 47-1 | 2304 | 2264 | 2434 | 2334 | 3.81 | cps |
| Uranium | 238-1 | 795397 | 807701 | 819588 | 807562 | 1.50 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-16 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2997 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:26:35 | DataFile Name : | 078AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 173 | 160 | 157 | 163 | 5.40 | cps |
| Ytterbium | 172-1 | 210 | 220 | 210 | 213 | 2.71 | cps |
| Ytterbium | 172-2 | 80 | 63 | 50 | 64 | 23.32 | cps |
| Ytterbium | 176-1 | 2057 | 2047 | 2044 | 2049 | 0.34 | cps |
| Ytterbium | 176-2 | 360 | 310 | 347 | 339 | 7.64 | cps |
| Yttrium | 89-1 | 29890805 | 29834361 | 30069390 | 29931519 | 0.41 | cps |
| Yttrium | 89-2 | 2297431 | 2261175 | 2163112 | 2240573 | 3.10 | cps |
| Zinc | 66-2 | 1593 | 1620 | 1557 | 1590 | 2.00 | cps |
| Zirconium | 90-1 | 5611 | 5945 | 5835 | 5797 | 2.93 | cps |
| Zirconium | 91-1 | 1237 | 1310 | 1340 | 1296 | 4.10 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 477 | 503 | 523 | 501 | 4.67 | cps |
| Antimony | 121-1 | 787 | 680 | 770 | 746 | 7.70 | cps |
| Arsenic | 75-2 | 617 | 647 | 447 | 570 | 18.92 | cps |
| Barium | 135-1 | 293140 | 296282 | 290691 | 293371 | 0.96 | cps |
| Barium | 137-1 | 510939 | 509534 | 513852 | 511441 | 0.43 | cps |
| Beryllium | 9-1 | 631 | 651 | 604 | 629 | 3.79 | cps |
| Bismuth | 209-1 | 9434164 | 11888869 | 12119085 | 11147373 | 13.35 | cps |
| Bismuth | 209-2 | 5163595 | 5238183 | 5194542 | 5198773 | 0.72 | cps |
| Bromine | 81-1 | 69444 | 71732 | 72161 | 71112 | 2.05 | cps |
| Cadmium | 108-1 | 60 | 63 | 77 | 67 | 13.23 | cps |
| Cadmium | 106-1 | 6865 | 8740 | 8930 | 8178 | 13.95 | cps |
| Cadmium | 111-1 | 4877 | 6113 | 6290 | 5760 | 13.37 | cps |
| Calcium | 43-1 | 11932470 | 11867015 | 11919913 | 11906466 | 0.29 | cps |
| Calcium | 44-1 | 191220650 | 193365264 | 189620037 | 191401984 | 0.98 | cps |
| Carbon | 12-1 | 8963024 | 9809739 | 10022122 | 9598295 | 5.84 | cps |
| Carbon | 12-2 | 68374 | 69463 | 69329 | 69056 | 0.86 | cps |
| Chlorine | 35-1 | 2161163 | 2259053 | 2298400 | 2239539 | 3.16 | cps |
| Chlorine | 35-2 | 9633 | 9356 | 9360 | 9450 | 1.68 | cps |
| Chromium | 52-2 | 1850 | 1643 | 1607 | 1700 | 7.72 | cps |
| Cobalt | 59-2 | 9790 | 10110 | 10024 | 9975 | 1.66 | cps |
| Copper | 63-2 | 5064 | 5048 | 5064 | 5059 | 0.19 | cps |
| Dysprosium | 156-1 | 200 | 130 | 190 | 173 | 21.84 | cps |
| Dysprosium | 156-2 | 50 | 40 | 50 | 47 | 12.37 | cps |
| Erbium | 164-1 | 253 | 263 | 267 | 261 | 2.66 | cps |
| Erbium | 164-2 | 107 | 77 | 100 | 94 | 16.68 | cps |
| Gadolinium | 160-1 | 267 | 243 | 270 | 260 | 5.59 | cps |
| Gadolinium | 160-2 | 60 | 73 | 57 | 63 | 13.92 | cps |
| Holmium | 165-1 | 16088341 | 20654665 | 20680028 | 19141011 | 13.81 | cps |
| Holmium | 165-2 | 7392208 | 7523320 | 7532223 | 7482584 | 1.05 | cps |
| Indium | 115-1 | 12931005 | 16549804 | 16668231 | 15383013 | 13.81 | cps |
| Indium | 115-2 | 1674103 | 1730288 | 1704743 | 1703045 | 1.65 | cps |
| Iron | 54-2 | 101802 | 99708 | 100551 | 100687 | 1.05 | cps |
| Iron | 56-2 | 1896783 | 1949635 | 1930121 | 1925513 | 1.39 | cps |
| Iron | 57-2 | 47248 | 46108 | 46064 | 46473 | 1.44 | cps |
| Krypton | 83-1 | 283 | 267 | 300 | 283 | 5.88 | cps |
| Lead | 206-1 | 2757 | 2920 | 2827 | 2835 | 2.89 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2304 | 2494 | 2454 | 2417 | 4.15 | cps |
| Lead | 208-1 | 10895 | 11209 | 11062 | 11055 | 1.42 | cps |
| Lithium | 6-1 | 8154444 | 9634388 | 9935362 | 9241398 | 10.32 | cps |
| Magnesium | 24-2 | 22915700 | 23645905 | 23579585 | 23380397 | 1.73 | cps |
| Manganese | 55-2 | 260312 | 260086 | 256804 | 259068 | 0.76 | cps |
| Molybdenum | 94-1 | 59195 | 59185 | 59483 | 59288 | 0.29 | cps |
| Molybdenum | 95-1 | 99654 | 100839 | 99177 | 99890 | 0.86 | cps |
| Molybdenum | 96-1 | 105463 | 105416 | 107116 | 105998 | 0.91 | cps |
| Molybdenum | 97-1 | 62238 | 61874 | 62751 | 62288 | 0.71 | cps |
| Molybdenum | 98-1 | 158389 | 160331 | 158383 | 159034 | 0.71 | cps |
| Neodymium | 150-1 | 153 | 167 | 173 | 164 | 6.19 | cps |
| Neodymium | 150-2 | 30 | 53 | 23 | 36 | 44.31 | cps |
| Nickel | 60-2 | 6988 | 7445 | 7279 | 7237 | 3.19 | cps |
| Phosphorus | 31-2 | 120 | 103 | 110 | 111 | 7.55 | cps |
| Potassium | 39-2 | 520075 | 519264 | 517970 | 519103 | 0.20 | cps |
| Rhodium | 103-1 | 11618943 | 14713996 | 15107076 | 13813338 | 13.83 | cps |
| Rhodium | 103-2 | 5991665 | 6115795 | 6148105 | 6085189 | 1.36 | cps |
| Scandium | 45-1 | 9454511 | 12077949 | 12315599 | 11282686 | 14.07 | cps |
| Scandium | 45-2 | 235113 | 238063 | 241182 | 238119 | 1.27 | cps |
| Selenium | 82-1 | 43 | 170 | 47 | 87 | 83.30 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 27 | 3 | 10 | 13 | 90.16 | cps |
| Silicon | 28-1 | 98946765 | 101409632 | 99965462 | 100107286 | 1.24 | cps |
| Silver | 107-1 | 437 | 590 | 540 | 522 | 14.97 | cps |
| Silver | 109-1 | 340 | 270 | 317 | 309 | 11.54 | cps |
| Sodium | 23-2 | 18406852 | 18459116 | 18759942 | 18541970 | 1.03 | cps |
| Strontium | 86-1 | 39814923 | 39298404 | 39354384 | 39489237 | 0.72 | cps |
| Strontium | 88-1 | 341909482 | 342582095 | 338866922 | 341119499 | 0.58 | cps |
| Sulfur | 34-1 | 12362539 | 12253311 | 12209645 | 12275165 | 0.64 | cps |
| Terbium | 159-1 | 16577680 | 20442996 | 21349293 | 19456657 | 13.02 | cps |
| Terbium | 159-2 | 7069274 | 7129641 | 7238931 | 7145949 | 1.20 | cps |
| Thallium | 203-1 | 823 | 760 | 890 | 824 | 7.89 | cps |
| Thallium | 205-1 | 2217 | 2050 | 2030 | 2099 | 4.88 | cps |
| Tin | 118-1 | 5114 | 5171 | 5251 | 5179 | 1.33 | cps |
| Titanium | 47-1 | 2087 | 2064 | 2020 | 2057 | 1.64 | cps |
| Uranium | 238-1 | 811387 | 805217 | 809707 | 808770 | 0.39 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-17 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2998 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:29:48 | DataFile Name : | 079AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 173 | 170 | 103 | 149 | 26.52 | cps |
| Ytterbium | 172-1 | 200 | 200 | 217 | 206 | 4.68 | cps |
| Ytterbium | 172-2 | 93 | 70 | 77 | 80 | 15.02 | cps |
| Ytterbium | 176-1 | 1653 | 1964 | 2010 | 1876 | 10.34 | cps |
| Ytterbium | 176-2 | 300 | 290 | 353 | 314 | 10.83 | cps |
| Yttrium | 89-1 | 23224387 | 29385835 | 30454480 | 27688234 | 14.09 | cps |
| Yttrium | 89-2 | 2167367 | 2224737 | 2234342 | 2208815 | 1.64 | cps |
| Zinc | 66-2 | 1087 | 1023 | 1113 | 1074 | 4.30 | cps |
| Zirconium | 90-1 | 4461 | 4861 | 4818 | 4713 | 4.66 | cps |
| Zirconium | 91-1 | 1067 | 1077 | 950 | 1031 | 6.83 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 847 | 767 | 760 | 791 | 6.10 | cps |
| Antimony | 121-1 | 257 | 313 | 297 | 289 | 10.08 | cps |
| Arsenic | 75-2 | 50 | 27 | 17 | 31 | 54.97 | cps |
| Barium | 135-1 | 84193 | 85917 | 84981 | 85030 | 1.01 | cps |
| Barium | 137-1 | 145563 | 147096 | 149486 | 147382 | 1.34 | cps |
| Beryllium | 9-1 | 646 | 666 | 631 | 648 | 2.71 | cps |
| Bismuth | 209-1 | 10144513 | 11652673 | 11801974 | 11199720 | 8.19 | cps |
| Bismuth | 209-2 | 5111656 | 5036220 | 5151216 | 5099697 | 1.15 | cps |
| Bromine | 81-1 | 129227 | 154069 | 172078 | 151791 | 14.17 | cps |
| Cadmium | 108-1 | 50 | 43 | 57 | 50 | 13.34 | cps |
| Cadmium | 106-1 | 7599 | 8770 | 8663 | 8344 | 7.76 | cps |
| Cadmium | 111-1 | 5358 | 6192 | 6081 | 5877 | 7.71 | cps |
| Calcium | 43-1 | 16398709 | 16775029 | 16806989 | 16660242 | 1.36 | cps |
| Calcium | 44-1 | 263214216 | 264801903 | 267694709 | 265236943 | 0.86 | cps |
| Carbon | 12-1 | 9757168 | 10495874 | 11023222 | 10425421 | 6.10 | cps |
| Carbon | 12-2 | 76608 | 74116 | 76407 | 75710 | 1.83 | cps |
| Chlorine | 35-1 | 14357529 | 16327247 | 17110438 | 15931738 | 8.90 | cps |
| Chlorine | 35-2 | 73237 | 72802 | 74447 | 73495 | 1.16 | cps |
| Chromium | 52-2 | 1667 | 1690 | 1547 | 1635 | 4.71 | cps |
| Cobalt | 59-2 | 453 | 427 | 493 | 458 | 7.33 | cps |
| Copper | 63-2 | 5081 | 5088 | 5468 | 5212 | 4.25 | cps |
| Dysprosium | 156-1 | 117 | 107 | 73 | 99 | 22.95 | cps |
| Dysprosium | 156-2 | 50 | 63 | 37 | 50 | 26.66 | cps |
| Erbium | 164-1 | 187 | 167 | 193 | 182 | 7.62 | cps |
| Erbium | 164-2 | 63 | 63 | 53 | 60 | 9.62 | cps |
| Gadolinium | 160-1 | 133 | 187 | 240 | 187 | 28.57 | cps |
| Gadolinium | 160-2 | 73 | 77 | 77 | 76 | 2.55 | cps |
| Holmium | 165-1 | 17304782 | 20375794 | 20120469 | 19267015 | 8.84 | cps |
| Holmium | 165-2 | 7332989 | 7401075 | 7385725 | 7373263 | 0.48 | cps |
| Indium | 115-1 | 14024659 | 16356831 | 16110966 | 15497485 | 8.27 | cps |
| Indium | 115-2 | 1652923 | 1647626 | 1648677 | 1649742 | 0.17 | cps |
| Iron | 54-2 | 333089 | 338141 | 340547 | 337259 | 1.13 | cps |
| Iron | 56-2 | 6460281 | 6450881 | 6432033 | 6447732 | 0.22 | cps |
| Iron | 57-2 | 158655 | 155986 | 155200 | 156614 | 1.16 | cps |
| Krypton | 83-1 | 260 | 263 | 317 | 280 | 11.36 | cps |
| Lead | 206-1 | 2517 | 2427 | 2487 | 2477 | 1.85 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2050 | 2090 | 2060 | 2067 | 1.01 | cps |
| Lead | 208-1 | 9528 | 9925 | 9648 | 9700 | 2.10 | cps |
| Lithium | 6-1 | 8565219 | 9328134 | 9503396 | 9132250 | 5.46 | cps |
| Magnesium | 24-2 | 25722927 | 25525910 | 25969748 | 25739529 | 0.86 | cps |
| Manganese | 55-2 | 78135 | 77797 | 79757 | 78563 | 1.33 | cps |
| Molybdenum | 94-1 | 44170 | 44431 | 44591 | 44397 | 0.48 | cps |
| Molybdenum | 95-1 | 73784 | 74143 | 75694 | 74541 | 1.36 | cps |
| Molybdenum | 96-1 | 79217 | 79117 | 80179 | 79504 | 0.74 | cps |
| Molybdenum | 97-1 | 44595 | 45829 | 47421 | 45948 | 3.08 | cps |
| Molybdenum | 98-1 | 116542 | 119865 | 119304 | 118570 | 1.50 | cps |
| Neodymium | 150-1 | 163 | 113 | 110 | 129 | 23.18 | cps |
| Neodymium | 150-2 | 33 | 37 | 50 | 40 | 22.05 | cps |
| Nickel | 60-2 | 1140 | 1123 | 1070 | 1111 | 3.29 | cps |
| Phosphorus | 31-2 | 167 | 123 | 123 | 138 | 18.16 | cps |
| Potassium | 39-2 | 774469 | 763459 | 776928 | 771619 | 0.93 | cps |
| Rhodium | 103-1 | 12716309 | 14831826 | 14523053 | 14023729 | 8.15 | cps |
| Rhodium | 103-2 | 5901351 | 6038240 | 5853323 | 5930971 | 1.62 | cps |
| Scandium | 45-1 | 10347427 | 12177624 | 12053374 | 11526142 | 8.87 | cps |
| Scandium | 45-2 | 235164 | 233009 | 238313 | 235495 | 1.13 | cps |
| Selenium | 82-1 | 50 | 190 | 143 | 128 | 55.79 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 17 | 17 | 13 | 43.29 | cps |
| Silicon | 28-1 | 140838568 | 142819108 | 144519571 | 142725749 | 1.29 | cps |
| Silver | 107-1 | 570 | 700 | 984 | 751 | 28.15 | cps |
| Silver | 109-1 | 347 | 383 | 457 | 396 | 14.16 | cps |
| Sodium | 23-2 | 64041224 | 63969089 | 64427204 | 64145839 | 0.38 | cps |
| Strontium | 86-1 | 118150642 | 118518262 | 120243242 | 118970715 | 0.94 | cps |
| Strontium | 88-1 | 1010807958 | 1036927958 | 1024039905 | 1023925274 | 1.28 | cps |
| Sulfur | 34-1 | 19944768 | 20526124 | 20736483 | 20402458 | 2.01 | cps |
| Terbium | 159-1 | 17585827 | 20646261 | 20296703 | 19509597 | 8.59 | cps |
| Terbium | 159-2 | 7188784 | 7083709 | 7163984 | 7145492 | 0.77 | cps |
| Thallium | 203-1 | 413 | 357 | 323 | 364 | 12.49 | cps |
| Thallium | 205-1 | 923 | 957 | 900 | 927 | 3.07 | cps |
| Tin | 118-1 | 4157 | 3887 | 4264 | 4103 | 4.73 | cps |
| Titanium | 47-1 | 2930 | 3097 | 2960 | 2996 | 2.97 | cps |
| Uranium | 238-1 | 31526 | 31736 | 31790 | 31684 | 0.44 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-18 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:33:05 | DataFile Name : | 080AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 503 | 527 | 477 | 502 | 4.98 | cps |
| Ytterbium | 172-1 | 113 | 143 | 123 | 127 | 12.06 | cps |
| Ytterbium | 172-2 | 83 | 53 | 73 | 70 | 21.82 | cps |
| Ytterbium | 176-1 | 1563 | 1840 | 1857 | 1753 | 9.40 | cps |
| Ytterbium | 176-2 | 267 | 283 | 343 | 298 | 13.54 | cps |
| Yttrium | 89-1 | 25317880 | 29511900 | 28594523 | 27808101 | 7.93 | cps |
| Yttrium | 89-2 | 2166757 | 2113605 | 2182309 | 2154224 | 1.67 | cps |
| Zinc | 66-2 | 917 | 933 | 963 | 938 | 2.52 | cps |
| Zirconium | 90-1 | 4121 | 4294 | 4271 | 4228 | 2.23 | cps |
| Zirconium | 91-1 | 940 | 920 | 887 | 916 | 2.94 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 24604 | 24594 | 24501 | 24566 | 0.23 | cps |
| Antimony | 121-1 | 470 | 590 | 523 | 528 | 11.39 | cps |
| Arsenic | 75-2 | 170 | 167 | 177 | 171 | 2.98 | cps |
| Barium | 135-1 | 65849 | 66763 | 66341 | 66318 | 0.69 | cps |
| Barium | 137-1 | 114816 | 116170 | 115491 | 115492 | 0.59 | cps |
| Beryllium | 9-1 | 605 | 655 | 566 | 609 | 7.31 | cps |
| Bismuth | 209-1 | 11785224 | 11700029 | 11783485 | 11756246 | 0.41 | cps |
| Bismuth | 209-2 | 5082384 | 5096300 | 5044460 | 5074381 | 0.53 | cps |
| Bromine | 81-1 | 141593 | 163866 | 177121 | 160860 | 11.16 | cps |
| Cadmium | 108-1 | 33 | 50 | 60 | 48 | 28.20 | cps |
| Cadmium | 106-1 | 8906 | 8606 | 8199 | 8571 | 4.14 | cps |
| Cadmium | 111-1 | 6291 | 6109 | 5767 | 6056 | 4.39 | cps |
| Calcium | 43-1 | 27551340 | 27780782 | 28490825 | 27940982 | 1.75 | cps |
| Calcium | 44-1 | 441310793 | 446634447 | 453979753 | 447308331 | 1.42 | cps |
| Carbon | 12-1 | 9466907 | 10328555 | 10660493 | 10151985 | 6.07 | cps |
| Carbon | 12-2 | 74414 | 74799 | 76551 | 75255 | 1.51 | cps |
| Chlorine | 35-1 | 6023169 | 6533670 | 6690027 | 6415622 | 5.44 | cps |
| Chlorine | 35-2 | 27563 | 27823 | 27353 | 27580 | 0.86 | cps |
| Chromium | 52-2 | 4671 | 4631 | 4697 | 4666 | 0.72 | cps |
| Cobalt | 59-2 | 3484 | 3547 | 3584 | 3538 | 1.43 | cps |
| Copper | 63-2 | 8006 | 8169 | 8156 | 8110 | 1.12 | cps |
| Dysprosium | 156-1 | 1550 | 1533 | 1427 | 1503 | 4.45 | cps |
| Dysprosium | 156-2 | 487 | 500 | 493 | 493 | 1.35 | cps |
| Erbium | 164-1 | 1210 | 1307 | 1220 | 1246 | 4.27 | cps |
| Erbium | 164-2 | 433 | 490 | 437 | 453 | 7.01 | cps |
| Gadolinium | 160-1 | 1420 | 1573 | 1567 | 1520 | 5.70 | cps |
| Gadolinium | 160-2 | 723 | 680 | 663 | 689 | 4.50 | cps |
| Holmium | 165-1 | 20219627 | 20222143 | 20370211 | 20270661 | 0.43 | cps |
| Holmium | 165-2 | 7240834 | 7380294 | 7302714 | 7307947 | 0.96 | cps |
| Indium | 115-1 | 16334223 | 16279574 | 16268028 | 16293942 | 0.22 | cps |
| Indium | 115-2 | 1634280 | 1662862 | 1616902 | 1638015 | 1.42 | cps |
| Iron | 54-2 | 738710 | 738665 | 740935 | 739437 | 0.18 | cps |
| Iron | 56-2 | 13893257 | 14205928 | 14171832 | 14090339 | 1.22 | cps |
| Iron | 57-2 | 335779 | 340279 | 344932 | 340330 | 1.34 | cps |
| Krypton | 83-1 | 267 | 300 | 287 | 284 | 5.90 | cps |
| Lead | 206-1 | 5648 | 5695 | 5681 | 5675 | 0.42 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4498 | 4654 | 4884 | 4679 | 4.16 | cps |
| Lead | 208-1 | 21410 | 21841 | 22418 | 21890 | 2.31 | cps |
| Lithium | 6-1 | 9632176 | 9554364 | 9417007 | 9534515 | 1.14 | cps |
| Magnesium | 24-2 | 37649950 | 38644692 | 37700009 | 37998217 | 1.47 | cps |
| Manganese | 55-2 | 192206 | 198899 | 197980 | 196362 | 1.85 | cps |
| Molybdenum | 94-1 | 24331 | 25186 | 25016 | 24844 | 1.82 | cps |
| Molybdenum | 95-1 | 34934 | 34576 | 34506 | 34672 | 0.66 | cps |
| Molybdenum | 96-1 | 36384 | 37718 | 38012 | 37371 | 2.32 | cps |
| Molybdenum | 97-1 | 21377 | 21550 | 21363 | 21430 | 0.49 | cps |
| Molybdenum | 98-1 | 54811 | 56544 | 56273 | 55876 | 1.67 | cps |
| Neodymium | 150-1 | 2077 | 2104 | 2224 | 2135 | 3.66 | cps |
| Neodymium | 150-2 | 543 | 543 | 520 | 536 | 2.51 | cps |
| Nickel | 60-2 | 3667 | 3354 | 3400 | 3474 | 4.87 | cps |
| Phosphorus | 31-2 | 277 | 280 | 247 | 268 | 6.86 | cps |
| Potassium | 39-2 | 1003402 | 1024770 | 1015293 | 1014488 | 1.06 | cps |
| Rhodium | 103-1 | 14867940 | 14675311 | 14787284 | 14776845 | 0.65 | cps |
| Rhodium | 103-2 | 5914670 | 5981636 | 5883848 | 5926718 | 0.84 | cps |
| Scandium | 45-1 | 12103113 | 12306168 | 12104798 | 12171360 | 0.96 | cps |
| Scandium | 45-2 | 234250 | 236049 | 238283 | 236194 | 0.86 | cps |
| Selenium | 82-1 | 113 | 113 | 193 | 140 | 32.99 | cps |
| Selenium | 77-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Selenium | 78-2 | 10 | 10 | 10 | 10 | 0.00 | cps |
| Silicon | 28-1 | 115260178 | 116546012 | 116315742 | 116040644 | 0.59 | cps |
| Silver | 107-1 | 537 | 580 | 633 | 583 | 8.30 | cps |
| Silver | 109-1 | 310 | 297 | 350 | 319 | 8.70 | cps |
| Sodium | 23-2 | 28124313 | 28247214 | 28564048 | 28311858 | 0.80 | cps |
| Strontium | 86-1 | 74068021 | 74804034 | 74457001 | 74443018 | 0.49 | cps |
| Strontium | 88-1 | 632271577 | 640899404 | 635599257 | 636256746 | 0.68 | cps |
| Sulfur | 34-1 | 43434924 | 43700996 | 44253458 | 43796459 | 0.95 | cps |
| Terbium | 159-1 | 20805120 | 20791974 | 20559135 | 20718743 | 0.67 | cps |
| Terbium | 159-2 | 7079457 | 7020806 | 7170371 | 7090211 | 1.06 | cps |
| Thallium | 203-1 | 567 | 613 | 553 | 578 | 5.45 | cps |
| Thallium | 205-1 | 1430 | 1440 | 1247 | 1372 | 7.93 | cps |
| Tin | 118-1 | 6842 | 7189 | 7039 | 7023 | 2.48 | cps |
| Titanium | 47-1 | 23824 | 24100 | 24675 | 24200 | 1.79 | cps |
| Uranium | 238-1 | 20103 | 21128 | 20584 | 20605 | 2.49 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-19 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:36:18 | DataFile Name : | 081AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2737 | 2847 | 2984 | 2856 | 4.33 | cps |
| Ytterbium | 172-1 | 433 | 427 | 440 | 433 | 1.54 | cps |
| Ytterbium | 172-2 | 197 | 177 | 190 | 188 | 5.42 | cps |
| Ytterbium | 176-1 | 2100 | 2114 | 2147 | 2120 | 1.13 | cps |
| Ytterbium | 176-2 | 443 | 400 | 420 | 421 | 5.15 | cps |
| Yttrium | 89-1 | 29100710 | 29376425 | 28988800 | 29155311 | 0.68 | cps |
| Yttrium | 89-2 | 2165484 | 2151834 | 2163395 | 2160237 | 0.34 | cps |
| Zinc | 66-2 | 1337 | 1250 | 1370 | 1319 | 4.70 | cps |
| Zirconium | 90-1 | 12392 | 12903 | 12839 | 12711 | 2.19 | cps |
| Zirconium | 91-1 | 2844 | 2627 | 2887 | 2786 | 5.00 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 517 | 457 | 503 | 492 | 6.40 | cps |
| Antimony | 121-1 | 480 | 617 | 577 | 558 | 12.60 | cps |
| Arsenic | 75-2 | 97 | 87 | 67 | 83 | 18.33 | cps |
| Barium | 135-1 | 185391 | 189344 | 192366 | 189034 | 1.85 | cps |
| Barium | 137-1 | 328183 | 338048 | 336168 | 334133 | 1.57 | cps |
| Beryllium | 9-1 | 539 | 522 | 499 | 520 | 3.87 | cps |
| Bismuth | 209-1 | 11264869 | 11544259 | 11679292 | 11496140 | 1.84 | cps |
| Bismuth | 209-2 | 5222355 | 5075525 | 5248748 | 5182209 | 1.80 | cps |
| Bromine | 81-1 | 152749 | 181435 | 197396 | 177193 | 12.77 | cps |
| Cadmium | 108-1 | 23 | 20 | 27 | 23 | 14.29 | cps |
| Cadmium | 106-1 | 8386 | 8666 | 8446 | 8499 | 1.74 | cps |
| Cadmium | 111-1 | 5881 | 6072 | 5910 | 5954 | 1.73 | cps |
| Calcium | 43-1 | 19837742 | 20215363 | 20065998 | 20039701 | 0.95 | cps |
| Calcium | 44-1 | 319972602 | 321569322 | 318937129 | 320159684 | 0.41 | cps |
| Carbon | 12-1 | 9820980 | 10578452 | 11351029 | 10583487 | 7.23 | cps |
| Carbon | 12-2 | 77865 | 78893 | 79175 | 78644 | 0.88 | cps |
| Chlorine | 35-1 | 13164906 | 14313520 | 14750511 | 14076312 | 5.82 | cps |
| Chlorine | 35-2 | 62066 | 62374 | 63060 | 62500 | 0.81 | cps |
| Chromium | 52-2 | 2214 | 2214 | 2284 | 2237 | 1.81 | cps |
| Cobalt | 59-2 | 533 | 520 | 493 | 516 | 3.95 | cps |
| Copper | 63-2 | 5374 | 5341 | 5364 | 5360 | 0.32 | cps |
| Dysprosium | 156-1 | 153 | 130 | 170 | 151 | 13.30 | cps |
| Dysprosium | 156-2 | 53 | 37 | 30 | 40 | 30.04 | cps |
| Erbium | 164-1 | 230 | 220 | 213 | 221 | 3.79 | cps |
| Erbium | 164-2 | 87 | 83 | 33 | 68 | 44.08 | cps |
| Gadolinium | 160-1 | 247 | 240 | 220 | 236 | 5.89 | cps |
| Gadolinium | 160-2 | 50 | 80 | 57 | 62 | 25.32 | cps |
| Holmium | 165-1 | 19109030 | 19470456 | 20423895 | 19667794 | 3.45 | cps |
| Holmium | 165-2 | 7473484 | 7394684 | 7452075 | 7440081 | 0.55 | cps |
| Indium | 115-1 | 15479239 | 15847000 | 16069713 | 15798651 | 1.89 | cps |
| Indium | 115-2 | 1675454 | 1666943 | 1699635 | 1680677 | 1.01 | cps |
| Iron | 54-2 | 30189 | 29106 | 29143 | 29479 | 2.08 | cps |
| Iron | 56-2 | 535011 | 533664 | 536166 | 534947 | 0.23 | cps |
| Iron | 57-2 | 14157 | 13873 | 14688 | 14239 | 2.90 | cps |
| Krypton | 83-1 | 280 | 283 | 277 | 280 | 1.19 | cps |
| Lead | 206-1 | 2277 | 2270 | 2350 | 2299 | 1.93 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1840 | 1974 | 1997 | 1937 | 4.36 | cps |
| Lead | 208-1 | 8848 | 8981 | 9175 | 9001 | 1.83 | cps |
| Lithium | 6-1 | 9267798 | 9426585 | 9620115 | 9438166 | 1.87 | cps |
| Magnesium | 24-2 | 24983750 | 23863157 | 24015748 | 24287552 | 2.50 | cps |
| Manganese | 55-2 | 227271 | 224968 | 227406 | 226548 | 0.60 | cps |
| Molybdenum | 94-1 | 3050 | 2977 | 3124 | 3050 | 2.40 | cps |
| Molybdenum | 95-1 | 2297 | 2270 | 2360 | 2309 | 2.00 | cps |
| Molybdenum | 96-1 | 2504 | 2807 | 2584 | 2631 | 5.98 | cps |
| Molybdenum | 97-1 | 1310 | 1337 | 1437 | 1361 | 4.91 | cps |
| Molybdenum | 98-1 | 3581 | 3300 | 3444 | 3442 | 4.07 | cps |
| Neodymium | 150-1 | 137 | 157 | 150 | 148 | 6.89 | cps |
| Neodymium | 150-2 | 30 | 43 | 40 | 38 | 18.36 | cps |
| Nickel | 60-2 | 1290 | 1167 | 1370 | 1276 | 8.03 | cps |
| Phosphorus | 31-2 | 237 | 237 | 240 | 238 | 0.81 | cps |
| Potassium | 39-2 | 1000537 | 990174 | 998940 | 996551 | 0.56 | cps |
| Rhodium | 103-1 | 14185308 | 14286854 | 14532368 | 14334843 | 1.24 | cps |
| Rhodium | 103-2 | 5953667 | 5921164 | 5928060 | 5934297 | 0.29 | cps |
| Scandium | 45-1 | 11549304 | 11931104 | 11967243 | 11815884 | 1.96 | cps |
| Scandium | 45-2 | 238912 | 234594 | 241263 | 238256 | 1.42 | cps |
| Selenium | 82-1 | 93 | 160 | 197 | 150 | 34.93 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 10 | 20 | 10 | 13 | 43.30 | cps |
| Silicon | 28-1 | 86586255 | 84238802 | 85163845 | 85329634 | 1.39 | cps |
| Silver | 107-1 | 470 | 537 | 600 | 536 | 12.14 | cps |
| Silver | 109-1 | 313 | 360 | 283 | 319 | 12.12 | cps |
| Sodium | 23-2 | 43079428 | 41441249 | 42403650 | 42308109 | 1.95 | cps |
| Strontium | 86-1 | 82785264 | 85615765 | 85772849 | 84724626 | 1.98 | cps |
| Strontium | 88-1 | 733554549 | 746185696 | 746145429 | 741961891 | 0.98 | cps |
| Sulfur | 34-1 | 25981417 | 26086102 | 26038329 | 26035283 | 0.20 | cps |
| Terbium | 159-1 | 19743500 | 20107836 | 20438572 | 20096636 | 1.73 | cps |
| Terbium | 159-2 | 7238858 | 7081227 | 7231449 | 7183845 | 1.24 | cps |
| Thallium | 203-1 | 287 | 290 | 350 | 309 | 11.54 | cps |
| Thallium | 205-1 | 613 | 717 | 723 | 684 | 9.01 | cps |
| Tin | 118-1 | 5978 | 5958 | 5971 | 5969 | 0.17 | cps |
| Titanium | 47-1 | 2034 | 2170 | 2017 | 2074 | 4.06 | cps |
| Uranium | 238-1 | 1793 | 1810 | 1884 | 1829 | 2.62 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-20 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:39:34 | DataFile Name : | 082AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 440 | 467 | 427 | 444 | 4.58 | cps |
| Ytterbium | 172-1 | 173 | 197 | 193 | 188 | 6.72 | cps |
| Ytterbium | 172-2 | 87 | 57 | 77 | 73 | 20.83 | cps |
| Ytterbium | 176-1 | 1960 | 1893 | 1903 | 1919 | 1.87 | cps |
| Ytterbium | 176-2 | 280 | 307 | 320 | 302 | 6.74 | cps |
| Yttrium | 89-1 | 28525804 | 28856110 | 29104772 | 28828895 | 1.01 | cps |
| Yttrium | 89-2 | 2194424 | 2150827 | 2188930 | 2178060 | 1.09 | cps |
| Zinc | 66-2 | 410 | 420 | 347 | 392 | 10.14 | cps |
| Zirconium | 90-1 | 4584 | 4918 | 5168 | 4890 | 5.99 | cps |
| Zirconium | 91-1 | 1043 | 1047 | 1097 | 1062 | 2.81 | cps |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7432 | 7462 | 7332 | 7409 | 0.92 | cps |
| Antimony | 121-1 | 4237 | 4377 | 4411 | 4342 | 2.12 | cps |
| Arsenic | 75-2 | 110 | 127 | 100 | 112 | 12.01 | cps |
| Barium | 135-1 | 40892 | 40490 | 41881 | 41088 | 1.74 | cps |
| Barium | 137-1 | 70151 | 71052 | 71662 | 70955 | 1.07 | cps |
| Beryllium | 9-1 | 595 | 577 | 561 | 578 | 2.92 | cps |
| Bismuth | 209-1 | 12173282 | 11841766 | 11283006 | 11766018 | 3.82 | cps |
| Bismuth | 209-2 | 5246442 | 5127444 | 5050491 | 5141459 | 1.92 | cps |
| Bromine | 81-1 | 109685 | 114035 | 118697 | 114139 | 3.95 | cps |
| Cadmium | 108-1 | 67 | 53 | 30 | 50 | 37.12 | cps |
| Cadmium | 106-1 | 9100 | 8536 | 8029 | 8555 | 6.26 | cps |
| Cadmium | 111-1 | 6567 | 6198 | 5869 | 6211 | 5.62 | cps |
| Calcium | 43-1 | 29287466 | 29812592 | 29683008 | 29594355 | 0.92 | cps |
| Calcium | 44-1 | 468962300 | 482318473 | 479867193 | 477049322 | 1.49 | cps |
| Carbon | 12-1 | 9262891 | 9898322 | 10456882 | 9872698 | 6.05 | cps |
| Carbon | 12-2 | 69172 | 70083 | 70628 | 69961 | 1.05 | cps |
| Chlorine | 35-1 | 3505740 | 3575329 | 3572229 | 3551099 | 1.11 | cps |
| Chlorine | 35-2 | 13576 | 14351 | 14284 | 14070 | 3.05 | cps |
| Chromium | 52-2 | 2724 | 2567 | 2617 | 2636 | 3.04 | cps |
| Cobalt | 59-2 | 2387 | 2397 | 2294 | 2359 | 2.42 | cps |
| Copper | 63-2 | 13460 | 13597 | 13053 | 13370 | 2.12 | cps |
| Dysprosium | 156-1 | 583 | 520 | 453 | 519 | 12.53 | cps |
| Dysprosium | 156-2 | 233 | 163 | 187 | 194 | 18.33 | cps |
| Erbium | 164-1 | 590 | 507 | 570 | 556 | 7.83 | cps |
| Erbium | 164-2 | 193 | 160 | 187 | 180 | 9.80 | cps |
| Gadolinium | 160-1 | 600 | 587 | 537 | 574 | 5.81 | cps |
| Gadolinium | 160-2 | 227 | 297 | 247 | 257 | 14.05 | cps |
| Holmium | 165-1 | 20954913 | 20290814 | 19166957 | 20137561 | 4.49 | cps |
| Holmium | 165-2 | 7488852 | 7260044 | 7313741 | 7354212 | 1.63 | cps |
| Indium | 115-1 | 16511543 | 16028882 | 15785386 | 16108604 | 2.29 | cps |
| Indium | 115-2 | 1718875 | 1664346 | 1654109 | 1679110 | 2.07 | cps |
| Iron | 54-2 | 440283 | 438252 | 435284 | 437939 | 0.57 | cps |
| Iron | 56-2 | 8344682 | 8457960 | 8333163 | 8378602 | 0.82 | cps |
| Iron | 57-2 | 202578 | 201962 | 200600 | 201714 | 0.50 | cps |
| Krypton | 83-1 | 333 | 290 | 277 | 300 | 9.88 | cps |
| Lead | 206-1 | 6922 | 6418 | 6608 | 6650 | 3.82 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5378 | 5248 | 5498 | 5375 | 2.33 | cps |
| Lead | 208-1 | 25710 | 24596 | 25677 | 25328 | 2.50 | cps |
| Lithium | 6-1 | 9734309 | 9290094 | 9124922 | 9383108 | 3.36 | cps |
| Magnesium | 24-2 | 26496858 | 26296005 | 26660865 | 26484576 | 0.69 | cps |
| Manganese | 55-2 | 184060 | 184814 | 182825 | 183900 | 0.55 | cps |
| Molybdenum | 94-1 | 15966 | 16143 | 16523 | 16211 | 1.76 | cps |
| Molybdenum | 95-1 | 24261 | 25079 | 24695 | 24679 | 1.66 | cps |
| Molybdenum | 96-1 | 26402 | 26899 | 26943 | 26748 | 1.12 | cps |
| Molybdenum | 97-1 | 15288 | 15919 | 15612 | 15607 | 2.02 | cps |
| Molybdenum | 98-1 | 38948 | 39349 | 39874 | 39390 | 1.18 | cps |
| Neodymium | 150-1 | 730 | 730 | 727 | 729 | 0.26 | cps |
| Neodymium | 150-2 | 217 | 120 | 180 | 172 | 28.34 | cps |
| Nickel | 60-2 | 3621 | 3677 | 3497 | 3598 | 2.56 | cps |
| Phosphorus | 31-2 | 400 | 393 | 443 | 412 | 6.59 | cps |
| Potassium | 39-2 | 675246 | 676220 | 681652 | 677706 | 0.51 | cps |
| Rhodium | 103-1 | 15055564 | 14684105 | 13972397 | 14570689 | 3.78 | cps |
| Rhodium | 103-2 | 6086933 | 5958567 | 5930125 | 5991875 | 1.39 | cps |
| Scandium | 45-1 | 12258997 | 11955763 | 11278209 | 11830990 | 4.24 | cps |
| Scandium | 45-2 | 241166 | 234852 | 232552 | 236190 | 1.89 | cps |
| Selenium | 82-1 | 43 | 123 | 143 | 103 | 51.20 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 3 | 7 | 20 | 10 | 88.20 | cps |
| Silicon | 28-1 | 129205998 | 132161748 | 132848428 | 131405391 | 1.47 | cps |
| Silver | 107-1 | 527 | 610 | 483 | 540 | 11.92 | cps |
| Silver | 109-1 | 270 | 257 | 317 | 281 | 11.21 | cps |
| Sodium | 23-2 | 12328926 | 12287984 | 12422217 | 12346376 | 0.56 | cps |
| Strontium | 86-1 | 91360599 | 92453615 | 93199439 | 92337884 | 1.00 | cps |
| Strontium | 88-1 | 792058468 | 797498441 | 808707988 | 799421633 | 1.06 | cps |
| Sulfur | 34-1 | 38749437 | 39165587 | 39266520 | 39060515 | 0.70 | cps |
| Terbium | 159-1 | 21538506 | 20499479 | 19605204 | 20547730 | 4.71 | cps |
| Terbium | 159-2 | 7262234 | 7068745 | 7018543 | 7116508 | 1.81 | cps |
| Thallium | 203-1 | 290 | 373 | 313 | 326 | 13.20 | cps |
| Thallium | 205-1 | 810 | 927 | 810 | 849 | 7.94 | cps |
| Tin | 118-1 | 4754 | 4287 | 4417 | 4486 | 5.37 | cps |
| Titanium | 47-1 | 8262 | 8232 | 8376 | 8290 | 0.91 | cps |
| Uranium | 238-1 | 10444 | 10641 | 10925 | 10670 | 2.26 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-21 | Instrumnet Name : | P8 |
| Client Sample ID : | ME29A3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:42:47 | DataFile Name : | 083AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1017 | 993 | 917 | 976 | 5.36 | cps |
| Ytterbium | 172-1 | 223 | 240 | 237 | 233 | 3.78 | cps |
| Ytterbium | 172-2 | 93 | 80 | 133 | 102 | 27.16 | cps |
| Ytterbium | 176-1 | 2070 | 2007 | 1807 | 1961 | 7.01 | cps |
| Ytterbium | 176-2 | 350 | 293 | 323 | 322 | 8.80 | cps |
| Yttrium | 89-1 | 29743030 | 28938590 | 28124660 | 28935427 | 2.80 | cps |
| Yttrium | 89-2 | 2218145 | 2131544 | 2132316 | 2160668 | 2.30 | cps |
| Zinc | 66-2 | 3534 | 3434 | 3427 | 3465 | 1.72 | cps |
| Zirconium | 90-1 | 4597 | 4881 | 4761 | 4746 | 3.00 | cps |
| Zirconium | 91-1 | 1090 | 1073 | 1093 | 1086 | 0.99 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1113 | 1037 | 1107 | 1086 | 3.91 | cps |
| Antimony | 121-1 | 24482 | 25023 | 25200 | 24902 | 1.50 | cps |
| Arsenic | 75-2 | 37 | 33 | 60 | 43 | 33.53 | cps |
| Barium | 135-1 | 139356 | 142480 | 144057 | 141964 | 1.69 | cps |
| Barium | 137-1 | 245417 | 251805 | 252392 | 249871 | 1.55 | cps |
| Beryllium | 9-1 | 532 | 480 | 470 | 494 | 6.79 | cps |
| Bismuth | 209-1 | 11316564 | 12023414 | 11782312 | 11707430 | 3.07 | cps |
| Bismuth | 209-2 | 5225430 | 5300786 | 5332857 | 5286357 | 1.04 | cps |
| Bromine | 81-1 | 69733 | 73511 | 72318 | 71854 | 2.69 | cps |
| Cadmium | 108-1 | 23 | 27 | 23 | 24 | 7.89 | cps |
| Cadmium | 106-1 | 8446 | 8876 | 8720 | 8681 | 2.51 | cps |
| Cadmium | 111-1 | 5939 | 6225 | 6141 | 6102 | 2.40 | cps |
| Calcium | 43-1 | 1884511 | 1875837 | 1952999 | 1904449 | 2.22 | cps |
| Calcium | 44-1 | 30557733 | 30110620 | 31588420 | 30752258 | 2.46 | cps |
| Carbon | 12-1 | 93884609 | 102563328 | 102556588 | 99668175 | 5.03 | cps |
| Carbon | 12-2 | 640591 | 636589 | 628693 | 635291 | 0.95 | cps |
| Chlorine | 35-1 | 7784291 | 8348569 | 8886512 | 8339790 | 6.61 | cps |
| Chlorine | 35-2 | 36630 | 37047 | 37144 | 36940 | 0.74 | cps |
| Chromium | 52-2 | 1577 | 1790 | 1650 | 1672 | 6.49 | cps |
| Cobalt | 59-2 | 747 | 697 | 707 | 717 | 3.69 | cps |
| Copper | 63-2 | 18355 | 18632 | 18365 | 18451 | 0.85 | cps |
| Dysprosium | 156-1 | 300 | 280 | 257 | 279 | 7.78 | cps |
| Dysprosium | 156-2 | 120 | 103 | 97 | 107 | 11.27 | cps |
| Erbium | 164-1 | 107 | 140 | 137 | 128 | 14.37 | cps |
| Erbium | 164-2 | 37 | 40 | 60 | 46 | 27.70 | cps |
| Gadolinium | 160-1 | 387 | 403 | 323 | 371 | 11.37 | cps |
| Gadolinium | 160-2 | 157 | 150 | 120 | 142 | 13.73 | cps |
| Holmium | 165-1 | 18773243 | 20178102 | 19447572 | 19466306 | 3.61 | cps |
| Holmium | 165-2 | 7397805 | 7477639 | 7473299 | 7449581 | 0.60 | cps |
| Indium | 115-1 | 15158099 | 16428659 | 15964111 | 15850290 | 4.06 | cps |
| Indium | 115-2 | 1673618 | 1707413 | 1694127 | 1691719 | 1.01 | cps |
| Iron | 54-2 | 1337 | 1200 | 1153 | 1230 | 7.75 | cps |
| Iron | 56-2 | 17668 | 18175 | 17958 | 17934 | 1.42 | cps |
| Iron | 57-2 | 463 | 553 | 527 | 514 | 8.99 | cps |
| Krypton | 83-1 | 280 | 280 | 297 | 286 | 3.37 | cps |
| Lead | 206-1 | 2337 | 2304 | 2384 | 2341 | 1.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1974 | 1977 | 1967 | 1972 | 0.26 | cps |
| Lead | 208-1 | 9028 | 8895 | 9271 | 9065 | 2.11 | cps |
| Lithium | 6-1 | 9025522 | 9739912 | 9654169 | 9473201 | 4.12 | cps |
| Magnesium | 24-2 | 2997170 | 3009583 | 3049384 | 3018712 | 0.90 | cps |
| Manganese | 55-2 | 10327 | 10601 | 10517 | 10482 | 1.34 | cps |
| Molybdenum | 94-1 | 3050 | 2734 | 3004 | 2929 | 5.84 | cps |
| Molybdenum | 95-1 | 3787 | 4121 | 4064 | 3991 | 4.47 | cps |
| Molybdenum | 96-1 | 4291 | 4688 | 4444 | 4474 | 4.47 | cps |
| Molybdenum | 97-1 | 2370 | 2580 | 2577 | 2509 | 4.79 | cps |
| Molybdenum | 98-1 | 6325 | 6472 | 6505 | 6434 | 1.49 | cps |
| Neodymium | 150-1 | 37 | 43 | 37 | 39 | 9.89 | cps |
| Neodymium | 150-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Nickel | 60-2 | 2914 | 2927 | 2944 | 2928 | 0.51 | cps |
| Phosphorus | 31-2 | 1037 | 963 | 883 | 961 | 7.98 | cps |
| Potassium | 39-2 | 327170 | 324741 | 324136 | 325349 | 0.49 | cps |
| Rhodium | 103-1 | 14261654 | 15430605 | 14870286 | 14854182 | 3.94 | cps |
| Rhodium | 103-2 | 6210975 | 6271990 | 6237930 | 6240298 | 0.49 | cps |
| Scandium | 45-1 | 11187994 | 11749523 | 11621681 | 11519733 | 2.55 | cps |
| Scandium | 45-2 | 233876 | 237677 | 236485 | 236013 | 0.82 | cps |
| Selenium | 82-1 | 77 | 83 | 3 | 54 | 81.52 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Silicon | 28-1 | 35969396 | 35901414 | 36901883 | 36257564 | 1.54 | cps |
| Silver | 107-1 | 573 | 627 | 623 | 608 | 4.92 | cps |
| Silver | 109-1 | 477 | 353 | 450 | 427 | 15.21 | cps |
| Sodium | 23-2 | 25772894 | 26326675 | 25904749 | 26001439 | 1.11 | cps |
| Strontium | 86-1 | 943477 | 964332 | 974994 | 960934 | 1.67 | cps |
| Strontium | 88-1 | 8468859 | 8644830 | 8677371 | 8597020 | 1.30 | cps |
| Sulfur | 34-1 | 2253545 | 2241879 | 2265584 | 2253669 | 0.53 | cps |
| Terbium | 159-1 | 19456717 | 21100788 | 20103484 | 20220330 | 4.10 | cps |
| Terbium | 159-2 | 7067376 | 7201941 | 7167141 | 7145486 | 0.98 | cps |
| Thallium | 203-1 | 483 | 430 | 497 | 470 | 7.51 | cps |
| Thallium | 205-1 | 933 | 1110 | 1163 | 1069 | 11.26 | cps |
| Tin | 118-1 | 3297 | 3400 | 3400 | 3366 | 1.77 | cps |
| Titanium | 47-1 | 1330 | 1410 | 1397 | 1379 | 3.11 | cps |
| Uranium | 238-1 | 540 | 653 | 680 | 624 | 11.90 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-01 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:46:03 | DataFile Name : | 084AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 303 | 320 | 310 | 311 | 2.70 | cps |
| Ytterbium | 172-1 | 247 | 193 | 223 | 221 | 12.09 | cps |
| Ytterbium | 172-2 | 113 | 90 | 77 | 93 | 19.89 | cps |
| Ytterbium | 176-1 | 1920 | 2024 | 1924 | 1956 | 3.00 | cps |
| Ytterbium | 176-2 | 340 | 287 | 357 | 328 | 11.16 | cps |
| Yttrium | 89-1 | 27264894 | 29316066 | 28267485 | 28282815 | 3.63 | cps |
| Yttrium | 89-2 | 2116684 | 2170336 | 2152059 | 2146359 | 1.27 | cps |
| Zinc | 66-2 | 2964 | 2780 | 2920 | 2888 | 3.32 | cps |
| Zirconium | 90-1 | 1537 | 1577 | 1413 | 1509 | 5.64 | cps |
| Zirconium | 91-1 | 323 | 290 | 357 | 323 | 10.31 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1930 | 1887 | 1860 | 1892 | 1.87 | cps |
| Antimony | 121-1 | 2804 | 2950 | 3007 | 2920 | 3.59 | cps |
| Arsenic | 75-2 | 67 | 57 | 60 | 61 | 8.33 | cps |
| Barium | 135-1 | 156429 | 160924 | 162646 | 159999 | 2.01 | cps |
| Barium | 137-1 | 275055 | 278146 | 283220 | 278807 | 1.48 | cps |
| Beryllium | 9-1 | 509 | 544 | 492 | 515 | 5.08 | cps |
| Bismuth | 209-1 | 12084960 | 7301749 | 60380 | 6482363 | 93.39 | cps |
| Bismuth | 209-2 | 5335360 | 5362641 | 5286969 | 5328323 | 0.72 | cps |
| Bromine | 81-1 | 90460 | 97328 | 96704 | 94831 | 4.00 | cps |
| Cadmium | 108-1 | 20 | 30 | 20 | 23 | 24.74 | cps |
| Cadmium | 106-1 | 9043 | 5588 | 60 | 4897 | 92.53 | cps |
| Cadmium | 111-1 | 6383 | 3967 | 65 | 3472 | 91.83 | cps |
| Calcium | 43-1 | 1851169 | 1907824 | 1954297 | 1904430 | 2.71 | cps |
| Calcium | 44-1 | 29983826 | 30905061 | 30882454 | 30590447 | 1.72 | cps |
| Carbon | 12-1 | 91503245 | 97541475 | 98594042 | 95879587 | 3.99 | cps |
| Carbon | 12-2 | 609738 | 609633 | 611149 | 610173 | 0.14 | cps |
| Chlorine | 35-1 | 7930488 | 8707740 | 8916077 | 8518102 | 6.10 | cps |
| Chlorine | 35-2 | 37976 | 37559 | 37452 | 37662 | 0.74 | cps |
| Chromium | 52-2 | 1407 | 1470 | 1563 | 1480 | 5.33 | cps |
| Cobalt | 59-2 | 1160 | 1340 | 1347 | 1282 | 8.26 | cps |
| Copper | 63-2 | 464771 | 458417 | 462393 | 461860 | 0.70 | cps |
| Dysprosium | 156-1 | 267 | 250 | 290 | 269 | 7.47 | cps |
| Dysprosium | 156-2 | 113 | 87 | 130 | 110 | 19.87 | cps |
| Erbium | 164-1 | 163 | 110 | 23 | 99 | 71.46 | cps |
| Erbium | 164-2 | 33 | 50 | 43 | 42 | 19.87 | cps |
| Gadolinium | 160-1 | 450 | 393 | 307 | 383 | 18.83 | cps |
| Gadolinium | 160-2 | 187 | 173 | 143 | 168 | 13.23 | cps |
| Holmium | 165-1 | 20193437 | 12512704 | 83992 | 10930044 | 92.84 | cps |
| Holmium | 165-2 | 7385854 | 7360123 | 7415224 | 7387067 | 0.37 | cps |
| Indium | 115-1 | 16607524 | 10319469 | 72390 | 8999794 | 92.74 | cps |
| Indium | 115-2 | 1696197 | 1682709 | 1664429 | 1681111 | 0.95 | cps |
| Iron | 54-2 | 2134 | 2037 | 1953 | 2041 | 4.41 | cps |
| Iron | 56-2 | 33239 | 33239 | 33379 | 33286 | 0.24 | cps |
| Iron | 57-2 | 843 | 877 | 960 | 893 | 6.73 | cps |
| Krypton | 83-1 | 347 | 363 | 453 | 388 | 14.80 | cps |
| Lead | 206-1 | 4031 | 3917 | 3981 | 3976 | 1.43 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3511 | 3484 | 3350 | 3448 | 2.49 | cps |
| Lead | 208-1 | 15937 | 15731 | 15480 | 15716 | 1.46 | cps |
| Lithium | 6-1 | 9795637 | 6025612 | 227331 | 5349527 | 90.10 | cps |
| Magnesium | 24-2 | 3068373 | 3109640 | 3092040 | 3090018 | 0.67 | cps |
| Manganese | 55-2 | 16423 | 16253 | 16129 | 16268 | 0.91 | cps |
| Molybdenum | 94-1 | 2977 | 2987 | 2897 | 2954 | 1.67 | cps |
| Molybdenum | 95-1 | 4071 | 4151 | 4301 | 4174 | 2.80 | cps |
| Molybdenum | 96-1 | 4514 | 4417 | 4544 | 4492 | 1.47 | cps |
| Molybdenum | 97-1 | 2474 | 2927 | 2580 | 2660 | 8.91 | cps |
| Molybdenum | 98-1 | 6562 | 6578 | 6482 | 6540 | 0.79 | cps |
| Neodymium | 150-1 | 37 | 27 | 20 | 28 | 30.20 | cps |
| Neodymium | 150-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 1820 | 1680 | 1907 | 1802 | 6.35 | cps |
| Phosphorus | 31-2 | 993 | 907 | 970 | 957 | 4.69 | cps |
| Potassium | 39-2 | 333474 | 331538 | 334721 | 333244 | 0.48 | cps |
| Rhodium | 103-1 | 15332309 | 9533143 | 69769 | 8311740 | 92.69 | cps |
| Rhodium | 103-2 | 6247364 | 6178945 | 6190409 | 6205573 | 0.59 | cps |
| Scandium | 45-1 | 11864748 | 7653591 | 75356 | 6531232 | 91.47 | cps |
| Scandium | 45-2 | 234864 | 236414 | 235087 | 235455 | 0.36 | cps |
| Selenium | 82-1 | 0 | 70 | 93 | 54 | 89.21 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Silicon | 28-1 | 35723382 | 36763201 | 36788104 | 36424896 | 1.67 | cps |
| Silver | 107-1 | 647 | 487 | 430 | 521 | 21.56 | cps |
| Silver | 109-1 | 387 | 477 | 430 | 431 | 10.44 | cps |
| Sodium | 23-2 | 26850467 | 26591170 | 26436009 | 26625882 | 0.79 | cps |
| Strontium | 86-1 | 961173 | 991366 | 1000962 | 984500 | 2.11 | cps |
| Strontium | 88-1 | 8727501 | 9033502 | 9137983 | 8966329 | 2.38 | cps |
| Sulfur | 34-1 | 2229426 | 2257103 | 2213705 | 2233412 | 0.98 | cps |
| Terbium | 159-1 | 20928964 | 12548791 | 87868 | 11188541 | 93.73 | cps |
| Terbium | 159-2 | 7169057 | 7188857 | 7059913 | 7139276 | 0.97 | cps |
| Thallium | 203-1 | 440 | 440 | 473 | 451 | 4.27 | cps |
| Thallium | 205-1 | 1030 | 1080 | 1037 | 1049 | 2.59 | cps |
| Tin | 118-1 | 3571 | 3631 | 3587 | 3596 | 0.86 | cps |
| Titanium | 47-1 | 1543 | 1253 | 1327 | 1375 | 10.97 | cps |
| Uranium | 238-1 | 1780 | 2017 | 2077 | 1958 | 8.01 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02RE | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02RE | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:49:18 | DataFile Name : | 085AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 297 | 287 | 270 | 284 | 4.73 | cps |
| Ytterbium | 172-1 | 203 | 147 | 113 | 154 | 29.46 | cps |
| Ytterbium | 172-2 | 90 | 90 | 103 | 94 | 8.15 | cps |
| Ytterbium | 176-1 | 2090 | 1343 | 90 | 1175 | 86.05 | cps |
| Ytterbium | 176-2 | 307 | 290 | 347 | 314 | 9.26 | cps |
| Yttrium | 89-1 | 29374782 | 18673498 | 132856 | 16060379 | 92.12 | cps |
| Yttrium | 89-2 | 2158010 | 2156187 | 2093625 | 2135941 | 1.72 | cps |
| Zinc | 66-2 | 8696 | 9013 | 9080 | 8930 | 2.30 | cps |
| Zirconium | 90-1 | 1753 | 1807 | 1127 | 1562 | 24.21 | cps |
| Zirconium | 91-1 | 330 | 330 | 290 | 317 | 7.29 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1827 | 1757 | 1790 | 1791 | 1.95 | cps |
| Antimony | 121-1 | 2727 | 2834 | 2840 | 2800 | 2.27 | cps |
| Arsenic | 75-2 | 53 | 60 | 40 | 51 | 19.92 | cps |
| Barium | 135-1 | 156088 | 159504 | 160819 | 158804 | 1.54 | cps |
| Barium | 137-1 | 269291 | 277593 | 279283 | 275389 | 1.94 | cps |
| Beryllium | 9-1 | 472 | 460 | 467 | 467 | 1.35 | cps |
| Bismuth | 209-1 | 12351607 | 12023493 | 12109899 | 12161666 | 1.40 | cps |
| Bismuth | 209-2 | 5264951 | 5231481 | 5230732 | 5242388 | 0.37 | cps |
| Bromine | 81-1 | 82397 | 91244 | 92774 | 88805 | 6.31 | cps |
| Cadmium | 108-1 | 27 | 50 | 37 | 38 | 30.98 | cps |
| Cadmium | 106-1 | 8923 | 8713 | 8666 | 8767 | 1.56 | cps |
| Cadmium | 111-1 | 6284 | 6127 | 6091 | 6167 | 1.67 | cps |
| Calcium | 43-1 | 1859494 | 1878309 | 1889945 | 1875916 | 0.82 | cps |
| Calcium | 44-1 | 29705809 | 29841103 | 30499078 | 30015330 | 1.41 | cps |
| Carbon | 12-1 | 86804672 | 93361249 | 95002839 | 91722920 | 4.73 | cps |
| Carbon | 12-2 | 597079 | 592003 | 591631 | 593571 | 0.51 | cps |
| Chlorine | 35-1 | 7875474 | 8551370 | 8953847 | 8460230 | 6.44 | cps |
| Chlorine | 35-2 | 37786 | 38033 | 38448 | 38089 | 0.88 | cps |
| Chromium | 52-2 | 1497 | 1537 | 1480 | 1505 | 1.94 | cps |
| Cobalt | 59-2 | 1317 | 1103 | 1120 | 1180 | 10.06 | cps |
| Copper | 63-2 | 461505 | 458641 | 458860 | 459668 | 0.35 | cps |
| Dysprosium | 156-1 | 277 | 273 | 263 | 271 | 2.56 | cps |
| Dysprosium | 156-2 | 130 | 117 | 130 | 126 | 6.13 | cps |
| Erbium | 164-1 | 160 | 133 | 163 | 152 | 10.80 | cps |
| Erbium | 164-2 | 47 | 40 | 43 | 43 | 7.70 | cps |
| Gadolinium | 160-1 | 390 | 373 | 373 | 379 | 2.54 | cps |
| Gadolinium | 160-2 | 193 | 190 | 147 | 177 | 14.74 | cps |
| Holmium | 165-1 | 20662672 | 20035084 | 20213420 | 20303725 | 1.59 | cps |
| Holmium | 165-2 | 7336092 | 7327539 | 7339749 | 7334460 | 0.09 | cps |
| Indium | 115-1 | 16488608 | 16329727 | 16407831 | 16408722 | 0.48 | cps |
| Indium | 115-2 | 1673699 | 1661038 | 1636860 | 1657199 | 1.13 | cps |
| Iron | 54-2 | 1990 | 1960 | 2007 | 1986 | 1.19 | cps |
| Iron | 56-2 | 33376 | 33209 | 32962 | 33182 | 0.63 | cps |
| Iron | 57-2 | 947 | 890 | 873 | 903 | 4.26 | cps |
| Krypton | 83-1 | 267 | 257 | 207 | 243 | 13.21 | cps |
| Lead | 206-1 | 4154 | 4364 | 4061 | 4193 | 3.71 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3367 | 3424 | 3597 | 3463 | 3.46 | cps |
| Lead | 208-1 | 15297 | 16411 | 15861 | 15856 | 3.51 | cps |
| Lithium | 6-1 | 9728602 | 9649287 | 9744429 | 9707439 | 0.53 | cps |
| Magnesium | 24-2 | 3102057 | 3066755 | 3075000 | 3081271 | 0.60 | cps |
| Manganese | 55-2 | 16396 | 15722 | 16844 | 16321 | 3.46 | cps |
| Molybdenum | 94-1 | 2797 | 2920 | 3044 | 2920 | 4.22 | cps |
| Molybdenum | 95-1 | 3821 | 3987 | 4124 | 3977 | 3.82 | cps |
| Molybdenum | 96-1 | 4284 | 4291 | 4597 | 4391 | 4.08 | cps |
| Molybdenum | 97-1 | 2497 | 2757 | 2694 | 2649 | 5.12 | cps |
| Molybdenum | 98-1 | 6572 | 6578 | 6535 | 6562 | 0.36 | cps |
| Neodymium | 150-1 | 50 | 37 | 27 | 38 | 30.98 | cps |
| Neodymium | 150-2 | 3 | 3 | 13 | 7 | 86.65 | cps |
| Nickel | 60-2 | 1810 | 1903 | 1823 | 1846 | 2.74 | cps |
| Phosphorus | 31-2 | 890 | 943 | 933 | 922 | 3.07 | cps |
| Potassium | 39-2 | 331614 | 330602 | 326892 | 329703 | 0.75 | cps |
| Rhodium | 103-1 | 15647739 | 15306900 | 15048909 | 15334516 | 1.96 | cps |
| Rhodium | 103-2 | 6145883 | 6113800 | 6242288 | 6167323 | 1.08 | cps |
| Scandium | 45-1 | 12140643 | 11715811 | 11814883 | 11890446 | 1.87 | cps |
| Scandium | 45-2 | 229893 | 233623 | 231813 | 231776 | 0.80 | cps |
| Selenium | 82-1 | 70 | 157 | 183 | 137 | 43.36 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 17 | 17 | 20 | 18 | 10.81 | cps |
| Silicon | 28-1 | 35406234 | 35795679 | 36343641 | 35848518 | 1.31 | cps |
| Silver | 107-1 | 517 | 537 | 563 | 539 | 4.34 | cps |
| Silver | 109-1 | 367 | 377 | 403 | 382 | 4.96 | cps |
| Sodium | 23-2 | 26287520 | 26361933 | 26367920 | 26339124 | 0.17 | cps |
| Strontium | 86-1 | 956042 | 983445 | 984692 | 974726 | 1.66 | cps |
| Strontium | 88-1 | 8553616 | 8763362 | 8772274 | 8696417 | 1.42 | cps |
| Sulfur | 34-1 | 2229974 | 2209693 | 2181002 | 2206890 | 1.11 | cps |
| Terbium | 159-1 | 20709181 | 20526659 | 20578772 | 20604871 | 0.46 | cps |
| Terbium | 159-2 | 7131028 | 6929217 | 7009036 | 7023093 | 1.45 | cps |
| Thallium | 203-1 | 437 | 450 | 420 | 436 | 3.45 | cps |
| Thallium | 205-1 | 1077 | 1137 | 1153 | 1122 | 3.59 | cps |
| Tin | 118-1 | 3530 | 3927 | 3827 | 3762 | 5.49 | cps |
| Titanium | 47-1 | 1450 | 1297 | 1440 | 1396 | 6.15 | cps |
| Uranium | 238-1 | 1937 | 2060 | 2197 | 2065 | 6.30 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | WATER-02 | Instrumnet Name : | P8 |
| Client Sample ID : | WATER-02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:52:37 | DataFile Name : | 086AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 297 | 340 | 277 | 304 | 10.64 | cps |
| Ytterbium | 172-1 | 257 | 290 | 207 | 251 | 16.70 | cps |
| Ytterbium | 172-2 | 97 | 83 | 80 | 87 | 10.18 | cps |
| Ytterbium | 176-1 | 2044 | 2000 | 1857 | 1967 | 4.97 | cps |
| Ytterbium | 176-2 | 357 | 303 | 347 | 336 | 8.45 | cps |
| Yttrium | 89-1 | 29037190 | 29003786 | 28877180 | 28972718 | 0.29 | cps |
| Yttrium | 89-2 | 2143627 | 2134157 | 2110249 | 2129344 | 0.81 | cps |
| Zinc | 66-2 | 8840 | 8726 | 8486 | 8684 | 2.08 | cps |
| Zirconium | 90-1 | 1700 | 1577 | 1737 | 1671 | 5.02 | cps |
| Zirconium | 91-1 | 320 | 300 | 370 | 330 | 10.93 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3807617 | 3843368 | 3858931 | 3836639 | 0.69 | cps |
| Antimony | 121-1 | 8641902 | 8697132 | 8669926 | 8669653 | 0.32 | cps |
| Arsenic | 75-2 | 181067 | 179609 | 182424 | 181033 | 0.78 | cps |
| Barium | 135-1 | 10362241 | 10565981 | 10549416 | 10492546 | 1.08 | cps |
| Barium | 137-1 | 17968265 | 18135305 | 17986543 | 18030038 | 0.51 | cps |
| Beryllium | 9-1 | 3247016 | 3197423 | 3169378 | 3204606 | 1.23 | cps |
| Bismuth | 209-1 | 11425115 | 11556220 | 11160109 | 11380481 | 1.77 | cps |
| Bismuth | 209-2 | 4896604 | 4872044 | 4904686 | 4891111 | 0.35 | cps |
| Bromine | 81-1 | 11848 | 11999 | 11622 | 11823 | 1.61 | cps |
| Cadmium | 108-1 | 170876 | 171472 | 167255 | 169867 | 1.34 | cps |
| Cadmium | 106-1 | 249503 | 250122 | 248675 | 249433 | 0.29 | cps |
| Cadmium | 111-1 | 2117150 | 2122150 | 2144341 | 2127880 | 0.68 | cps |
| Calcium | 43-1 | 14273397 | 14596220 | 14458687 | 14442768 | 1.12 | cps |
| Calcium | 44-1 | 236417383 | 237908136 | 238938936 | 237754819 | 0.53 | cps |
| Carbon | 12-1 | 6369145 | 6562986 | 6601598 | 6511243 | 1.91 | cps |
| Carbon | 12-2 | 51108 | 51302 | 52202 | 51538 | 1.13 | cps |
| Chlorine | 35-1 | 1211747 | 1155363 | 1074038 | 1147049 | 6.04 | cps |
| Chlorine | 35-2 | 3884 | 3794 | 3804 | 3827 | 1.29 | cps |
| Chromium | 52-2 | 2079602 | 2105430 | 2121033 | 2102022 | 1.00 | cps |
| Cobalt | 59-2 | 3847259 | 3855023 | 3826231 | 3842838 | 0.39 | cps |
| Copper | 63-2 | 28102955 | 27837473 | 28342267 | 28094232 | 0.90 | cps |
| Dysprosium | 156-1 | 440 | 460 | 547 | 482 | 11.76 | cps |
| Dysprosium | 156-2 | 153 | 100 | 103 | 119 | 25.13 | cps |
| Erbium | 164-1 | 430 | 420 | 470 | 440 | 6.01 | cps |
| Erbium | 164-2 | 163 | 160 | 217 | 180 | 17.67 | cps |
| Gadolinium | 160-1 | 453 | 393 | 423 | 423 | 7.09 | cps |
| Gadolinium | 160-2 | 120 | 120 | 147 | 129 | 11.95 | cps |
| Holmium | 165-1 | 19858605 | 20087465 | 20199700 | 20048590 | 0.87 | cps |
| Holmium | 165-2 | 7214807 | 7210762 | 7265697 | 7230422 | 0.42 | cps |
| Indium | 115-1 | 15491835 | 15943295 | 15379631 | 15604920 | 1.91 | cps |
| Indium | 115-2 | 1601444 | 1581395 | 1572397 | 1585079 | 0.94 | cps |
| Iron | 54-2 | 19992941 | 20040008 | 20144205 | 20059051 | 0.39 | cps |
| Iron | 56-2 | 363345235 | 366272261 | 367184128 | 365600541 | 0.55 | cps |
| Iron | 57-2 | 9256209 | 9268680 | 9309459 | 9278116 | 0.30 | cps |
| Krypton | 83-1 | 253 | 327 | 243 | 274 | 16.58 | cps |
| Lead | 206-1 | 32692330 | 33165402 | 32729316 | 32862349 | 0.80 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 28131153 | 28696223 | 28606513 | 28477963 | 1.07 | cps |
| Lead | 208-1 | 129945993 | 132135842 | 130345266 | 130809034 | 0.89 | cps |
| Lithium | 6-1 | 9101729 | 9032857 | 8754180 | 8962922 | 2.05 | cps |
| Magnesium | 24-2 | 66916932 | 66704331 | 67925226 | 67182163 | 0.97 | cps |
| Manganese | 55-2 | 8172445 | 8169854 | 8278186 | 8206829 | 0.75 | cps |
| Molybdenum | 94-1 | 31865521 | 32009919 | 32054500 | 31976646 | 0.31 | cps |
| Molybdenum | 95-1 | 45103036 | 44883049 | 44929211 | 44971765 | 0.26 | cps |
| Molybdenum | 96-1 | 49746129 | 49393953 | 48956883 | 49365655 | 0.80 | cps |
| Molybdenum | 97-1 | 28086375 | 27965981 | 27960960 | 28004438 | 0.25 | cps |
| Molybdenum | 98-1 | 73461777 | 73824396 | 73640791 | 73642321 | 0.25 | cps |
| Neodymium | 150-1 | 903 | 920 | 840 | 888 | 4.75 | cps |
| Neodymium | 150-2 | 63 | 70 | 100 | 78 | 25.11 | cps |
| Nickel | 60-2 | 972522 | 965171 | 975139 | 970944 | 0.53 | cps |
| Phosphorus | 31-2 | 37304 | 36576 | 38304 | 37395 | 2.32 | cps |
| Potassium | 39-2 | 19330338 | 19597060 | 20030998 | 19652799 | 1.80 | cps |
| Rhodium | 103-1 | 14015619 | 14156216 | 14156216 | 14109350 | 0.58 | cps |
| Rhodium | 103-2 | 5651026 | 5581942 | 5599848 | 5610938 | 0.64 | cps |
| Scandium | 45-1 | 11410978 | 11702409 | 11475173 | 11529520 | 1.33 | cps |
| Scandium | 45-2 | 230154 | 231810 | 233043 | 231669 | 0.63 | cps |
| Selenium | 82-1 | 127875 | 128858 | 128491 | 128408 | 0.39 | cps |
| Selenium | 77-2 | 2200 | 2380 | 2340 | 2307 | 4.10 | cps |
| Selenium | 78-2 | 7425 | 7742 | 7716 | 7628 | 2.30 | cps |
| Silicon | 28-1 | 7673688 | 7873611 | 7738896 | 7762065 | 1.31 | cps |
| Silver | 107-1 | 10430190 | 10544921 | 10493761 | 10489624 | 0.55 | cps |
| Silver | 109-1 | 9927295 | 9885159 | 9899035 | 9903830 | 0.22 | cps |
| Sodium | 23-2 | 137164075 | 135801955 | 138720231 | 137228754 | 1.06 | cps |
| Strontium | 86-1 | 2984903 | 3040041 | 2935064 | 2986669 | 1.76 | cps |
| Strontium | 88-1 | 24846106 | 25607614 | 25019257 | 25157659 | 1.59 | cps |
| Sulfur | 34-1 | 1691591 | 1684817 | 1667172 | 1681194 | 0.75 | cps |
| Terbium | 159-1 | 20712100 | 20307366 | 20741602 | 20587022 | 1.18 | cps |
| Terbium | 159-2 | 7070734 | 7002941 | 7064731 | 7046135 | 0.53 | cps |
| Thallium | 203-1 | 8125712 | 8089181 | 8149715 | 8121536 | 0.38 | cps |
| Thallium | 205-1 | 19176294 | 19112408 | 19080328 | 19123010 | 0.26 | cps |
| Tin | 118-1 | 6913621 | 7038330 | 6955256 | 6969069 | 0.91 | cps |
| Titanium | 47-1 | 14040733 | 14123641 | 14085111 | 14083162 | 0.29 | cps |
| Uranium | 238-1 | 26815988 | 27133716 | 26609172 | 26852959 | 0.98 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 16:55:55 | DataFile Name : | 087CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1658060 | 1661987 | 1678302 | 1666116 | 0.64 | cps |
| Ytterbium | 172-1 | 553 | 520 | 477 | 517 | 7.44 | cps |
| Ytterbium | 172-2 | 250 | 207 | 177 | 211 | 17.46 | cps |
| Ytterbium | 176-1 | 41311 | 42749 | 41696 | 41918 | 1.78 | cps |
| Ytterbium | 176-2 | 14405 | 14561 | 14581 | 14516 | 0.67 | cps |
| Yttrium | 89-1 | 28485836 | 28759681 | 28573338 | 28606285 | 0.49 | cps |
| Yttrium | 89-2 | 2081546 | 2102219 | 2140839 | 2108201 | 1.43 | cps |
| Zinc | 66-2 | 3069723 | 3040297 | 3088507 | 3066175 | 0.79 | cps |
| Zirconium | 90-1 | 15899796 | 15746816 | 15844301 | 15830304 | 0.49 | cps |
| Zirconium | 91-1 | 3496262 | 3566983 | 3515231 | 3526159 | 1.04 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 123 | 93 | 117 | 111 | 14.18 | cps |
| Antimony | 121-1 | 587 | 520 | 573 | 560 | 6.30 | cps |
| Arsenic | 75-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Barium | 135-1 | 113 | 97 | 73 | 94 | 21.27 | cps |
| Barium | 137-1 | 127 | 93 | 100 | 107 | 16.54 | cps |
| Beryllium | 9-1 | 932 | 825 | 844 | 867 | 6.62 | cps |
| Bismuth | 209-1 | 13040516 | 12663931 | 12814424 | 12839624 | 1.48 | cps |
| Bismuth | 209-2 | 5687997 | 5600005 | 5673016 | 5653673 | 0.83 | cps |
| Bromine | 81-1 | 8529 | 8363 | 8429 | 8440 | 0.99 | cps |
| Cadmium | 108-1 | 33 | 37 | 13 | 28 | 45.44 | cps |
| Cadmium | 106-1 | 8683 | 8543 | 9140 | 8788 | 3.55 | cps |
| Cadmium | 111-1 | 6085 | 6008 | 6412 | 6168 | 3.48 | cps |
| Calcium | 43-1 | 717 | 760 | 770 | 749 | 3.79 | cps |
| Calcium | 44-1 | 35350 | 36002 | 36085 | 35812 | 1.12 | cps |
| Carbon | 12-1 | 5329292 | 5242932 | 5230972 | 5267732 | 1.02 | cps |
| Carbon | 12-2 | 33972 | 33809 | 33699 | 33827 | 0.41 | cps |
| Chlorine | 35-1 | 593422 | 585235 | 578491 | 585716 | 1.28 | cps |
| Chlorine | 35-2 | 2187 | 2290 | 2150 | 2209 | 3.29 | cps |
| Chromium | 52-2 | 1690 | 1643 | 1563 | 1632 | 3.93 | cps |
| Cobalt | 59-2 | 167 | 113 | 167 | 149 | 20.68 | cps |
| Copper | 63-2 | 4584 | 4597 | 4494 | 4559 | 1.23 | cps |
| Dysprosium | 156-1 | 10 | 13 | 23 | 16 | 44.60 | cps |
| Dysprosium | 156-2 | 0 | 3 | 10 | 4 | 114.60 | cps |
| Erbium | 164-1 | 123 | 87 | 97 | 102 | 18.54 | cps |
| Erbium | 164-2 | 60 | 17 | 37 | 38 | 57.40 | cps |
| Gadolinium | 160-1 | 120 | 100 | 113 | 111 | 9.16 | cps |
| Gadolinium | 160-2 | 47 | 17 | 10 | 24 | 79.90 | cps |
| Holmium | 165-1 | 20768149 | 20906592 | 20875388 | 20850043 | 0.35 | cps |
| Holmium | 165-2 | 7661746 | 7651587 | 7549143 | 7620825 | 0.82 | cps |
| Indium | 115-1 | 17422205 | 17329403 | 17246577 | 17332728 | 0.51 | cps |
| Indium | 115-2 | 1774994 | 1756429 | 1787002 | 1772808 | 0.87 | cps |
| Iron | 54-2 | 887 | 793 | 850 | 843 | 5.58 | cps |
| Iron | 56-2 | 11408 | 11625 | 12065 | 11699 | 2.86 | cps |
| Iron | 57-2 | 303 | 247 | 327 | 292 | 14.08 | cps |
| Krypton | 83-1 | 337 | 277 | 263 | 292 | 13.37 | cps |
| Lead | 206-1 | 2877 | 2904 | 2717 | 2833 | 3.56 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2280 | 2334 | 2154 | 2256 | 4.10 | cps |
| Lead | 208-1 | 10995 | 10869 | 10632 | 10832 | 1.70 | cps |
| Lithium | 6-1 | 10138752 | 10064632 | 9922487 | 10041957 | 1.09 | cps |
| Magnesium | 24-2 | 2680 | 2507 | 2714 | 2634 | 4.21 | cps |
| Manganese | 55-2 | 250 | 223 | 230 | 234 | 5.92 | cps |
| Molybdenum | 94-1 | 750 | 643 | 697 | 697 | 7.66 | cps |
| Molybdenum | 95-1 | 483 | 413 | 373 | 423 | 13.15 | cps |
| Molybdenum | 96-1 | 593 | 547 | 470 | 537 | 11.60 | cps |
| Molybdenum | 97-1 | 307 | 223 | 217 | 249 | 20.15 | cps |
| Molybdenum | 98-1 | 770 | 667 | 617 | 684 | 11.43 | cps |
| Neodymium | 150-1 | 7 | 17 | 3 | 9 | 78.08 | cps |
| Neodymium | 150-2 | 0 | 10 | 3 | 4 | 114.60 | cps |
| Nickel | 60-2 | 1307 | 1303 | 1273 | 1295 | 1.42 | cps |
| Phosphorus | 31-2 | 90 | 83 | 117 | 97 | 18.25 | cps |
| Potassium | 39-2 | 18462 | 18035 | 17491 | 17996 | 2.70 | cps |
| Rhodium | 103-1 | 16512364 | 16367319 | 16629933 | 16503205 | 0.80 | cps |
| Rhodium | 103-2 | 6674502 | 6664648 | 6555641 | 6631597 | 0.99 | cps |
| Scandium | 45-1 | 12604265 | 12371738 | 12337353 | 12437785 | 1.17 | cps |
| Scandium | 45-2 | 243770 | 244811 | 245438 | 244673 | 0.34 | cps |
| Selenium | 82-1 | -83 | 17 | 13 | -18 | -319.47 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 13 | 7 | 13 | 11 | 34.61 | cps |
| Silicon | 28-1 | 654852 | 650819 | 651463 | 652378 | 0.33 | cps |
| Silver | 107-1 | 690 | 560 | 607 | 619 | 10.64 | cps |
| Silver | 109-1 | 517 | 533 | 470 | 507 | 6.48 | cps |
| Sodium | 23-2 | 76569 | 76455 | 76616 | 76547 | 0.11 | cps |
| Strontium | 86-1 | 663 | 707 | 657 | 676 | 4.02 | cps |
| Strontium | 88-1 | 1583 | 1570 | 1467 | 1540 | 4.15 | cps |
| Sulfur | 34-1 | 918622 | 923051 | 869671 | 903781 | 3.28 | cps |
| Terbium | 159-1 | 21714971 | 21535569 | 21291342 | 21513961 | 0.99 | cps |
| Terbium | 159-2 | 7354226 | 7256651 | 7343696 | 7318191 | 0.73 | cps |
| Thallium | 203-1 | 520 | 480 | 420 | 473 | 10.63 | cps |
| Thallium | 205-1 | 1197 | 1127 | 1030 | 1118 | 7.49 | cps |
| Tin | 118-1 | 3130 | 3027 | 3154 | 3104 | 2.17 | cps |
| Titanium | 47-1 | 297 | 227 | 287 | 270 | 14.02 | cps |
| Uranium | 238-1 | 83 | 80 | 77 | 80 | 4.16 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:02:11 | DataFile Name : | 089CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17 | 3 | 20 | 13 | 66.16 | cps |
| Ytterbium | 172-1 | 107 | 83 | 123 | 104 | 19.24 | cps |
| Ytterbium | 172-2 | 47 | 27 | 23 | 32 | 39.17 | cps |
| Ytterbium | 176-1 | 1934 | 2020 | 1880 | 1945 | 3.63 | cps |
| Ytterbium | 176-2 | 297 | 313 | 330 | 313 | 5.32 | cps |
| Yttrium | 89-1 | 31096651 | 30464528 | 30430926 | 30664035 | 1.22 | cps |
| Yttrium | 89-2 | 2204711 | 2281917 | 2258579 | 2248402 | 1.76 | cps |
| Zinc | 66-2 | 230 | 217 | 237 | 228 | 4.47 | cps |
| Zirconium | 90-1 | 1130 | 1160 | 1290 | 1193 | 7.13 | cps |
| Zirconium | 91-1 | 220 | 183 | 223 | 209 | 10.62 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90 | 93 | 63 | 82 | 20.00 | cps |
| Antimony | 121-1 | 157 | 157 | 173 | 162 | 5.93 | cps |
| Arsenic | 75-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Barium | 135-1 | 70 | 83 | 53 | 69 | 21.82 | cps |
| Barium | 137-1 | 93 | 133 | 120 | 116 | 17.63 | cps |
| Beryllium | 9-1 | 604 | 549 | 601 | 585 | 5.31 | cps |
| Bismuth | 209-1 | 12613388 | 12763764 | 12901827 | 12759660 | 1.13 | cps |
| Bismuth | 209-2 | 5558355 | 5561627 | 5308178 | 5476053 | 2.66 | cps |
| Bromine | 81-1 | 7349 | 7465 | 7162 | 7325 | 2.09 | cps |
| Cadmium | 108-1 | 27 | 10 | 43 | 27 | 62.49 | cps |
| Cadmium | 106-1 | 8716 | 8336 | 9073 | 8708 | 4.23 | cps |
| Cadmium | 111-1 | 6126 | 5858 | 6344 | 6109 | 3.98 | cps |
| Calcium | 43-1 | 713 | 757 | 757 | 742 | 3.37 | cps |
| Calcium | 44-1 | 36082 | 36319 | 36794 | 36398 | 1.00 | cps |
| Carbon | 12-1 | 4971379 | 4930742 | 4935698 | 4945940 | 0.45 | cps |
| Carbon | 12-2 | 31424 | 31420 | 31146 | 31330 | 0.51 | cps |
| Chlorine | 35-1 | 421981 | 417875 | 411508 | 417122 | 1.27 | cps |
| Chlorine | 35-2 | 1433 | 1733 | 1770 | 1646 | 11.22 | cps |
| Chromium | 52-2 | 2774 | 2814 | 2774 | 2787 | 0.83 | cps |
| Cobalt | 59-2 | 140 | 170 | 170 | 160 | 10.83 | cps |
| Copper | 63-2 | 4657 | 4454 | 4507 | 4540 | 2.32 | cps |
| Dysprosium | 156-1 | 10 | 10 | 30 | 17 | 69.28 | cps |
| Dysprosium | 156-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Erbium | 164-1 | 107 | 120 | 83 | 103 | 17.96 | cps |
| Erbium | 164-2 | 53 | 23 | 50 | 42 | 38.95 | cps |
| Gadolinium | 160-1 | 137 | 107 | 103 | 116 | 15.89 | cps |
| Gadolinium | 160-2 | 27 | 23 | 23 | 24 | 7.89 | cps |
| Holmium | 165-1 | 20674739 | 20651396 | 20584304 | 20636813 | 0.23 | cps |
| Holmium | 165-2 | 7594621 | 7482221 | 7170660 | 7415834 | 2.96 | cps |
| Indium | 115-1 | 17040463 | 17108529 | 17335185 | 17161392 | 0.90 | cps |
| Indium | 115-2 | 1767232 | 1795908 | 1686853 | 1749998 | 3.23 | cps |
| Iron | 54-2 | 857 | 847 | 800 | 834 | 3.62 | cps |
| Iron | 56-2 | 11895 | 12392 | 12402 | 12230 | 2.37 | cps |
| Iron | 57-2 | 260 | 337 | 463 | 353 | 29.07 | cps |
| Krypton | 83-1 | 290 | 360 | 263 | 304 | 16.40 | cps |
| Lead | 206-1 | 2107 | 2007 | 1970 | 2028 | 3.49 | cps |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1580 | 1800 | 1673 | 1685 | 6.56 | cps |
| Lead | 208-1 | 8091 | 8068 | 8094 | 8084 | 0.18 | cps |
| Lithium | 6-1 | 9945357 | 9914203 | 9886982 | 9915514 | 0.29 | cps |
| Magnesium | 24-2 | 2904 | 2874 | 2917 | 2898 | 0.77 | cps |
| Manganese | 55-2 | 297 | 270 | 263 | 277 | 6.37 | cps |
| Molybdenum | 94-1 | 577 | 453 | 660 | 563 | 18.46 | cps |
| Molybdenum | 95-1 | 377 | 230 | 257 | 288 | 27.15 | cps |
| Molybdenum | 96-1 | 370 | 350 | 360 | 360 | 2.78 | cps |
| Molybdenum | 97-1 | 150 | 150 | 167 | 156 | 6.19 | cps |
| Molybdenum | 98-1 | 357 | 333 | 293 | 328 | 9.77 | cps |
| Neodymium | 150-1 | 10 | 0 | 13 | 8 | 89.21 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 1723 | 1643 | 1623 | 1663 | 3.18 | cps |
| Phosphorus | 31-2 | 67 | 70 | 67 | 68 | 2.84 | cps |
| Potassium | 39-2 | 17651 | 17597 | 17718 | 17655 | 0.34 | cps |
| Rhodium | 103-1 | 16344934 | 16300461 | 16136420 | 16260605 | 0.68 | cps |
| Rhodium | 103-2 | 6645920 | 6541218 | 6187032 | 6458057 | 3.72 | cps |
| Scandium | 45-1 | 12585739 | 12588869 | 12602300 | 12592303 | 0.07 | cps |
| Scandium | 45-2 | 241808 | 244692 | 228973 | 238491 | 3.51 | cps |
| Selenium | 82-1 | 20 | -43 | 37 | 4 | 950.02 | cps |
| Selenium | 77-2 | 0 | 0 | 7 | 2 | 173.21 | cps |
| Selenium | 78-2 | 10 | 10 | 3 | 8 | 49.52 | cps |
| Silicon | 28-1 | 654818 | 651847 | 650492 | 652386 | 0.34 | cps |
| Silver | 107-1 | 453 | 353 | 427 | 411 | 12.60 | cps |
| Silver | 109-1 | 187 | 213 | 207 | 202 | 6.86 | cps |
| Sodium | 23-2 | 77705 | 78121 | 77022 | 77616 | 0.71 | cps |
| Strontium | 86-1 | 667 | 617 | 573 | 619 | 7.55 | cps |
| Strontium | 88-1 | 1443 | 1357 | 1367 | 1389 | 3.41 | cps |
| Sulfur | 34-1 | 1000365 | 984007 | 979001 | 987791 | 1.13 | cps |
| Terbium | 159-1 | 21261369 | 21075148 | 20932319 | 21089612 | 0.78 | cps |
| Terbium | 159-2 | 7278257 | 7248822 | 6799670 | 7108916 | 3.77 | cps |
| Thallium | 203-1 | 230 | 333 | 330 | 298 | 19.72 | cps |
| Thallium | 205-1 | 720 | 663 | 637 | 673 | 6.32 | cps |
| Tin | 118-1 | 2000 | 1910 | 2040 | 1984 | 3.36 | cps |
| Titanium | 47-1 | 287 | 340 | 267 | 298 | 12.73 | cps |
| Uranium | 238-1 | 37 | 30 | 37 | 34 | 11.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:12:19 | DataFile Name : | 092CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 27 | 23 | 21 | 32.88 | cps |
| Ytterbium | 172-1 | 87 | 110 | 143 | 113 | 25.13 | cps |
| Ytterbium | 172-2 | 40 | 47 | 43 | 43 | 7.70 | cps |
| Ytterbium | 176-1 | 1994 | 1913 | 1960 | 1956 | 2.06 | cps |
| Ytterbium | 176-2 | 280 | 270 | 293 | 281 | 4.16 | cps |
| Yttrium | 89-1 | 30648092 | 30078025 | 30674639 | 30466919 | 1.11 | cps |
| Yttrium | 89-2 | 2270997 | 2260709 | 2125744 | 2219150 | 3.65 | cps |
| Zinc | 66-2 | 183 | 187 | 207 | 192 | 6.56 | cps |
| Zirconium | 90-1 | 1137 | 1000 | 1013 | 1050 | 7.18 | cps |
| Zirconium | 91-1 | 263 | 270 | 183 | 239 | 20.19 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 783368 | 773277 | 779555 | 778733 | 0.65 | cps |
| Antimony | 121-1 | 9132077 | 9268429 | 9177018 | 9192508 | 0.76 | cps |
| Arsenic | 75-2 | 188888 | 189013 | 188010 | 188637 | 0.29 | cps |
| Barium | 135-1 | 10604452 | 10770742 | 10584678 | 10653290 | 0.96 | cps |
| Barium | 137-1 | 18687618 | 18685379 | 18458213 | 18610403 | 0.71 | cps |
| Beryllium | 9-1 | 3348429 | 3308003 | 3353778 | 3336737 | 0.75 | cps |
| Bismuth | 209-1 | 12176058 | 12218489 | 10899873 | 11764807 | 6.37 | cps |
| Bismuth | 209-2 | 4828324 | 5056227 | 5206487 | 5030346 | 3.79 | cps |
| Bromine | 81-1 | 6835 | 6401 | 6755 | 6664 | 3.46 | cps |
| Cadmium | 108-1 | 178354 | 178085 | 181669 | 179369 | 1.11 | cps |
| Cadmium | 106-1 | 260575 | 261650 | 261172 | 261132 | 0.21 | cps |
| Cadmium | 111-1 | 2225992 | 2295970 | 2272692 | 2264885 | 1.57 | cps |
| Calcium | 43-1 | 3095357 | 3081612 | 3205288 | 3127419 | 2.17 | cps |
| Calcium | 44-1 | 50241413 | 50286444 | 51586024 | 50704627 | 1.51 | cps |
| Carbon | 12-1 | 6239638 | 6302938 | 6380907 | 6307827 | 1.12 | cps |
| Carbon | 12-2 | 42170 | 42551 | 42548 | 42423 | 0.52 | cps |
| Chlorine | 35-1 | 404966 | 405662 | 405524 | 405384 | 0.09 | cps |
| Chlorine | 35-2 | 1733 | 1710 | 1777 | 1740 | 1.94 | cps |
| Chromium | 52-2 | 2171260 | 2166132 | 2186521 | 2174638 | 0.49 | cps |
| Cobalt | 59-2 | 4056382 | 4049295 | 3986492 | 4030723 | 0.95 | cps |
| Copper | 63-2 | 30617894 | 30454045 | 30534128 | 30535356 | 0.27 | cps |
| Dysprosium | 156-1 | 187 | 197 | 207 | 197 | 5.08 | cps |
| Dysprosium | 156-2 | 30 | 23 | 20 | 24 | 20.83 | cps |
| Erbium | 164-1 | 187 | 190 | 160 | 179 | 9.19 | cps |
| Erbium | 164-2 | 83 | 57 | 63 | 68 | 20.47 | cps |
| Gadolinium | 160-1 | 223 | 190 | 197 | 203 | 8.68 | cps |
| Gadolinium | 160-2 | 50 | 50 | 53 | 51 | 3.76 | cps |
| Holmium | 165-1 | 20936474 | 20528967 | 18108538 | 19857993 | 7.70 | cps |
| Holmium | 165-2 | 6770547 | 6965625 | 7278146 | 7004773 | 3.66 | cps |
| Indium | 115-1 | 16619953 | 16665296 | 14363380 | 15882876 | 8.29 | cps |
| Indium | 115-2 | 1447528 | 1574815 | 1614574 | 1545639 | 5.65 | cps |
| Iron | 54-2 | 4347392 | 4357408 | 4364540 | 4356447 | 0.20 | cps |
| Iron | 56-2 | 78304549 | 78094017 | 78022047 | 78140204 | 0.19 | cps |
| Iron | 57-2 | 2002405 | 1989528 | 1991814 | 1994582 | 0.34 | cps |
| Krypton | 83-1 | 267 | 277 | 253 | 266 | 4.41 | cps |
| Lead | 206-1 | 34053805 | 34294794 | 34738063 | 34362221 | 1.01 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 29614515 | 29429160 | 29798315 | 29613997 | 0.62 | cps |
| Lead | 208-1 | 137210728 | 136620835 | 137272313 | 137034625 | 0.26 | cps |
| Lithium | 6-1 | 9527915 | 9509604 | 8768401 | 9268640 | 4.68 | cps |
| Magnesium | 24-2 | 14562863 | 14320961 | 14765614 | 14549813 | 1.53 | cps |
| Manganese | 55-2 | 8525311 | 8595631 | 8531109 | 8550683 | 0.46 | cps |
| Molybdenum | 94-1 | 32421633 | 33146343 | 31846695 | 32471557 | 2.01 | cps |
| Molybdenum | 95-1 | 46208873 | 46225441 | 45846314 | 46093543 | 0.46 | cps |
| Molybdenum | 96-1 | 50774883 | 50209068 | 50919899 | 50634616 | 0.74 | cps |
| Molybdenum | 97-1 | 28524838 | 28538878 | 28626865 | 28563527 | 0.19 | cps |
| Molybdenum | 98-1 | 73872642 | 75192344 | 74034082 | 74366356 | 0.97 | cps |
| Neodymium | 150-1 | 690 | 743 | 777 | 737 | 5.93 | cps |
| Neodymium | 150-2 | 33 | 17 | 17 | 22 | 43.28 | cps |
| Nickel | 60-2 | 1122774 | 1113694 | 1104336 | 1113601 | 0.83 | cps |
| Phosphorus | 31-2 | 38792 | 38431 | 38010 | 38411 | 1.02 | cps |
| Potassium | 39-2 | 4148527 | 4131338 | 4148974 | 4142946 | 0.24 | cps |
| Rhodium | 103-1 | 15455474 | 15276974 | 13481231 | 14737893 | 7.41 | cps |
| Rhodium | 103-2 | 5628832 | 5820803 | 5969822 | 5806486 | 2.94 | cps |
| Scandium | 45-1 | 12290280 | 12132109 | 10818264 | 11746884 | 6.88 | cps |
| Scandium | 45-2 | 217099 | 228877 | 235780 | 227252 | 4.16 | cps |
| Selenium | 82-1 | 136051 | 136389 | 138839 | 137093 | 1.11 | cps |
| Selenium | 77-2 | 2477 | 2467 | 2260 | 2401 | 5.09 | cps |
| Selenium | 78-2 | 8136 | 7796 | 8503 | 8145 | 4.34 | cps |
| Silicon | 28-1 | 8037995 | 8071476 | 7880993 | 7996821 | 1.27 | cps |
| Silver | 107-1 | 11262203 | 11335918 | 11370372 | 11322831 | 0.49 | cps |
| Silver | 109-1 | 10788447 | 10678957 | 10748333 | 10738579 | 0.52 | cps |
| Sodium | 23-2 | 29498673 | 29219000 | 29606735 | 29441470 | 0.68 | cps |
| Strontium | 86-1 | 3010529 | 3108398 | 2946656 | 3021861 | 2.70 | cps |
| Strontium | 88-1 | 26150661 | 25608765 | 25606261 | 25788563 | 1.22 | cps |
| Sulfur | 34-1 | 1757463 | 1740853 | 1742466 | 1746928 | 0.52 | cps |
| Terbium | 159-1 | 20814403 | 21019119 | 18402894 | 20078806 | 7.25 | cps |
| Terbium | 159-2 | 6633444 | 6902464 | 7010368 | 6848759 | 2.83 | cps |
| Thallium | 203-1 | 8386474 | 8371913 | 8564147 | 8440845 | 1.27 | cps |
| Thallium | 205-1 | 20010166 | 20087786 | 19810491 | 19969481 | 0.72 | cps |
| Tin | 118-1 | 7279194 | 7297633 | 7176012 | 7250947 | 0.90 | cps |
| Titanium | 47-1 | 14578806 | 14528802 | 14803296 | 14636968 | 1.00 | cps |
| Uranium | 238-1 | 26498280 | 26551275 | 26959343 | 26669633 | 0.95 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166532BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS532 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:15:37 | DataFile Name : | 093LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1708375 | 1710955 | 1665296 | 1694876 | 1.51 | cps |
| Ytterbium | 172-1 | 180 | 250 | 233 | 221 | 16.54 | cps |
| Ytterbium | 172-2 | 113 | 83 | 80 | 92 | 19.91 | cps |
| Ytterbium | 176-1 | 40081 | 40522 | 40382 | 40328 | 0.56 | cps |
| Ytterbium | 176-2 | 14738 | 14118 | 14782 | 14546 | 2.55 | cps |
| Yttrium | 89-1 | 29921811 | 29990363 | 25779136 | 28563770 | 8.44 | cps |
| Yttrium | 89-2 | 1995705 | 2127189 | 2112732 | 2078542 | 3.47 | cps |
| Zinc | 66-2 | 3396964 | 3394601 | 3407555 | 3399707 | 0.20 | cps |
| Zirconium | 90-1 | 16190447 | 16271850 | 16017864 | 16160054 | 0.80 | cps |
| Zirconium | 91-1 | 3572864 | 3597326 | 3638204 | 3602798 | 0.92 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 280 | 410 | 307 | 332 | 20.67 | cps |
| Antimony | 121-1 | 2760 | 2607 | 2280 | 2549 | 9.62 | cps |
| Arsenic | 75-2 | 13 | 10 | 13 | 12 | 15.73 | cps |
| Barium | 135-1 | 757 | 577 | 540 | 624 | 18.57 | cps |
| Barium | 137-1 | 1270 | 1007 | 840 | 1039 | 20.87 | cps |
| Beryllium | 9-1 | 1672 | 1449 | 1385 | 1502 | 10.05 | cps |
| Bismuth | 209-1 | 10424841 | 12178149 | 12847806 | 11816932 | 10.59 | cps |
| Bismuth | 209-2 | 5551890 | 5647628 | 5582344 | 5593954 | 0.87 | cps |
| Bromine | 81-1 | 7142 | 7312 | 7872 | 7442 | 5.14 | cps |
| Cadmium | 108-1 | 197 | 210 | 233 | 213 | 8.70 | cps |
| Cadmium | 106-1 | 7175 | 8466 | 8459 | 8034 | 9.25 | cps |
| Cadmium | 111-1 | 5275 | 6083 | 6048 | 5802 | 7.87 | cps |
| Calcium | 43-1 | 8946 | 9056 | 9240 | 9081 | 1.63 | cps |
| Calcium | 44-1 | 176313 | 175642 | 174231 | 175395 | 0.61 | cps |
| Carbon | 12-1 | 10792470 | 11213618 | 11262307 | 11089465 | 2.33 | cps |
| Carbon | 12-2 | 72488 | 74652 | 74253 | 73797 | 1.56 | cps |
| Chlorine | 35-1 | 376400 | 377413 | 377164 | 376992 | 0.14 | cps |
| Chlorine | 35-2 | 1450 | 1477 | 1580 | 1502 | 4.57 | cps |
| Chromium | 52-2 | 7802 | 8102 | 7826 | 7910 | 2.11 | cps |
| Cobalt | 59-2 | 273 | 383 | 327 | 328 | 16.78 | cps |
| Copper | 63-2 | 5578 | 5391 | 5645 | 5538 | 2.37 | cps |
| Dysprosium | 156-1 | 23 | 33 | 33 | 30 | 19.25 | cps |
| Dysprosium | 156-2 | 20 | 27 | 13 | 20 | 33.35 | cps |
| Erbium | 164-1 | 100 | 147 | 143 | 130 | 20.03 | cps |
| Erbium | 164-2 | 60 | 33 | 37 | 43 | 33.53 | cps |
| Gadolinium | 160-1 | 137 | 143 | 163 | 148 | 9.39 | cps |
| Gadolinium | 160-2 | 40 | 27 | 30 | 32 | 21.53 | cps |
| Holmium | 165-1 | 16894136 | 19825124 | 20514330 | 19077863 | 10.08 | cps |
| Holmium | 165-2 | 7749431 | 7688327 | 7567024 | 7668261 | 1.21 | cps |
| Indium | 115-1 | 13796437 | 16574554 | 17255862 | 15875618 | 11.54 | cps |
| Indium | 115-2 | 1808443 | 1762886 | 1745756 | 1772361 | 1.83 | cps |
| Iron | 54-2 | 3941 | 4064 | 3991 | 3998 | 1.55 | cps |
| Iron | 56-2 | 65600 | 63762 | 64592 | 64651 | 1.42 | cps |
| Iron | 57-2 | 1687 | 1610 | 1633 | 1643 | 2.39 | cps |
| Krypton | 83-1 | 333 | 247 | 270 | 283 | 15.83 | cps |
| Lead | 206-1 | 6652 | 5818 | 5478 | 5983 | 10.10 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5791 | 5058 | 4818 | 5222 | 9.71 | cps |
| Lead | 208-1 | 25910 | 23065 | 21604 | 23526 | 9.31 | cps |
| Lithium | 6-1 | 8294409 | 9619875 | 9990482 | 9301588 | 9.59 | cps |
| Magnesium | 24-2 | 23105 | 23178 | 23155 | 23146 | 0.16 | cps |
| Manganese | 55-2 | 1333 | 1450 | 1330 | 1371 | 4.98 | cps |
| Molybdenum | 94-1 | 242611 | 240661 | 240485 | 241252 | 0.49 | cps |
| Molybdenum | 95-1 | 419435 | 417962 | 410779 | 416059 | 1.11 | cps |
| Molybdenum | 96-1 | 450518 | 450220 | 448233 | 449657 | 0.28 | cps |
| Molybdenum | 97-1 | 262152 | 260454 | 260077 | 260895 | 0.42 | cps |
| Molybdenum | 98-1 | 670733 | 673751 | 662773 | 669086 | 0.85 | cps |
| Neodymium | 150-1 | 70 | 50 | 50 | 57 | 20.38 | cps |
| Neodymium | 150-2 | 20 | 27 | 7 | 18 | 57.27 | cps |
| Nickel | 60-2 | 3277 | 3344 | 3237 | 3286 | 1.64 | cps |
| Phosphorus | 31-2 | 690 | 627 | 713 | 677 | 6.63 | cps |
| Potassium | 39-2 | 19880 | 19730 | 20101 | 19904 | 0.94 | cps |
| Rhodium | 103-1 | 13289869 | 15774275 | 16134283 | 15066142 | 10.28 | cps |
| Rhodium | 103-2 | 6587758 | 6664263 | 6511796 | 6587939 | 1.16 | cps |
| Scandium | 45-1 | 10071393 | 11819753 | 12283572 | 11391573 | 10.24 | cps |
| Scandium | 45-2 | 249612 | 245018 | 242540 | 245723 | 1.46 | cps |
| Selenium | 82-1 | -27 | 23 | -20 | -8 | -349.04 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 7 | 17 | 13 | 12 | 41.65 | cps |
| Silicon | 28-1 | 781848 | 784488 | 775177 | 780505 | 0.61 | cps |
| Silver | 107-1 | 1767 | 1540 | 1443 | 1583 | 10.48 | cps |
| Silver | 109-1 | 1440 | 1247 | 1040 | 1242 | 16.10 | cps |
| Sodium | 23-2 | 90042 | 90471 | 91216 | 90576 | 0.66 | cps |
| Strontium | 86-1 | 1293 | 1100 | 1143 | 1179 | 8.61 | cps |
| Strontium | 88-1 | 6678 | 6101 | 5891 | 6224 | 6.55 | cps |
| Sulfur | 34-1 | 922789 | 933500 | 913256 | 923182 | 1.10 | cps |
| Terbium | 159-1 | 17521638 | 20312388 | 21357979 | 19730669 | 10.05 | cps |
| Terbium | 159-2 | 7402821 | 7312017 | 7374117 | 7362985 | 0.63 | cps |
| Thallium | 203-1 | 1130 | 1027 | 933 | 1030 | 9.55 | cps |
| Thallium | 205-1 | 2687 | 2160 | 2200 | 2349 | 12.48 | cps |
| Tin | 118-1 | 13527 | 13427 | 13617 | 13524 | 0.70 | cps |
| Titanium | 47-1 | 1473 | 1127 | 1287 | 1296 | 13.39 | cps |
| Uranium | 238-1 | 1317 | 877 | 700 | 964 | 32.93 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:18:21 | DataFile Name : | 094AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 120 | 113 | 63 | 99 | 31.32 | cps |
| Ytterbium | 172-1 | 93 | 110 | 100 | 101 | 8.30 | cps |
| Ytterbium | 172-2 | 53 | 33 | 60 | 49 | 28.39 | cps |
| Ytterbium | 176-1 | 1543 | 1863 | 1987 | 1798 | 12.73 | cps |
| Ytterbium | 176-2 | 310 | 333 | 303 | 316 | 4.99 | cps |
| Yttrium | 89-1 | 24730161 | 29399896 | 30368281 | 28166113 | 10.70 | cps |
| Yttrium | 89-2 | 2270398 | 2259635 | 2187924 | 2239319 | 2.00 | cps |
| Zinc | 66-2 | 217040 | 218424 | 216406 | 217290 | 0.47 | cps |
| Zirconium | 90-1 | 1723 | 1513 | 1590 | 1609 | 6.60 | cps |
| Zirconium | 91-1 | 380 | 323 | 257 | 320 | 19.29 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 383 | 350 | 410 | 381 | 7.89 | cps |
| Antimony | 121-1 | 1003 | 1110 | 1057 | 1057 | 5.05 | cps |
| Arsenic | 75-2 | 10 | 3 | 7 | 7 | 50.03 | cps |
| Barium | 135-1 | 540 | 613 | 520 | 558 | 8.81 | cps |
| Barium | 137-1 | 947 | 953 | 867 | 922 | 5.23 | cps |
| Beryllium | 9-1 | 1004 | 932 | 930 | 955 | 4.38 | cps |
| Bismuth | 209-1 | 12543496 | 12867175 | 12916232 | 12775634 | 1.59 | cps |
| Bismuth | 209-2 | 5661761 | 5624980 | 5635801 | 5640847 | 0.34 | cps |
| Bromine | 81-1 | 7035 | 7539 | 7836 | 7470 | 5.42 | cps |
| Cadmium | 108-1 | 200 | 153 | 193 | 182 | 13.85 | cps |
| Cadmium | 106-1 | 8459 | 8139 | 8649 | 8416 | 3.06 | cps |
| Cadmium | 111-1 | 5978 | 5850 | 6173 | 6000 | 2.71 | cps |
| Calcium | 43-1 | 8756 | 8833 | 8823 | 8804 | 0.47 | cps |
| Calcium | 44-1 | 171692 | 175315 | 171769 | 172925 | 1.20 | cps |
| Carbon | 12-1 | 10959186 | 11643694 | 11841936 | 11481606 | 4.03 | cps |
| Carbon | 12-2 | 74813 | 76096 | 76977 | 75962 | 1.43 | cps |
| Chlorine | 35-1 | 363511 | 362741 | 363982 | 363411 | 0.17 | cps |
| Chlorine | 35-2 | 1437 | 1610 | 1443 | 1497 | 6.56 | cps |
| Chromium | 52-2 | 7786 | 7949 | 7999 | 7911 | 1.41 | cps |
| Cobalt | 59-2 | 297 | 343 | 277 | 306 | 11.20 | cps |
| Copper | 63-2 | 5418 | 5424 | 5248 | 5363 | 1.87 | cps |
| Dysprosium | 156-1 | 53 | 43 | 47 | 48 | 10.66 | cps |
| Dysprosium | 156-2 | 30 | 37 | 23 | 30 | 22.23 | cps |
| Erbium | 164-1 | 120 | 133 | 130 | 128 | 5.43 | cps |
| Erbium | 164-2 | 70 | 30 | 47 | 49 | 41.10 | cps |
| Gadolinium | 160-1 | 170 | 130 | 150 | 150 | 13.33 | cps |
| Gadolinium | 160-2 | 40 | 27 | 23 | 30 | 29.40 | cps |
| Holmium | 165-1 | 20277021 | 20925106 | 21250883 | 20817670 | 2.38 | cps |
| Holmium | 165-2 | 7821138 | 7667232 | 7537044 | 7675138 | 1.85 | cps |
| Indium | 115-1 | 16407045 | 17254425 | 17496781 | 17052750 | 3.36 | cps |
| Indium | 115-2 | 1800298 | 1779680 | 1782737 | 1787572 | 0.62 | cps |
| Iron | 54-2 | 2534 | 2484 | 2760 | 2592 | 5.69 | cps |
| Iron | 56-2 | 41992 | 42657 | 42359 | 42336 | 0.79 | cps |
| Iron | 57-2 | 1137 | 1073 | 1057 | 1089 | 3.88 | cps |
| Krypton | 83-1 | 243 | 323 | 263 | 277 | 15.05 | cps |
| Lead | 206-1 | 4611 | 4728 | 4434 | 4591 | 3.22 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4057 | 3981 | 3844 | 3961 | 2.73 | cps |
| Lead | 208-1 | 18332 | 18248 | 17582 | 18054 | 2.28 | cps |
| Lithium | 6-1 | 9677645 | 10002271 | 10202124 | 9960680 | 2.66 | cps |
| Magnesium | 24-2 | 23402 | 22925 | 23172 | 23166 | 1.03 | cps |
| Manganese | 55-2 | 1283 | 1247 | 1197 | 1242 | 3.50 | cps |
| Molybdenum | 94-1 | 240646 | 244050 | 245650 | 243449 | 1.05 | cps |
| Molybdenum | 95-1 | 413254 | 420225 | 424532 | 419337 | 1.36 | cps |
| Molybdenum | 96-1 | 442300 | 452551 | 450569 | 448473 | 1.21 | cps |
| Molybdenum | 97-1 | 258157 | 262966 | 263651 | 261591 | 1.14 | cps |
| Molybdenum | 98-1 | 668259 | 671287 | 679205 | 672917 | 0.84 | cps |
| Neodymium | 150-1 | 33 | 67 | 73 | 58 | 37.09 | cps |
| Neodymium | 150-2 | 17 | 13 | 17 | 16 | 12.40 | cps |
| Nickel | 60-2 | 3090 | 3327 | 3240 | 3219 | 3.72 | cps |
| Phosphorus | 31-2 | 650 | 557 | 630 | 612 | 8.03 | cps |
| Potassium | 39-2 | 19824 | 20077 | 19667 | 19856 | 1.04 | cps |
| Rhodium | 103-1 | 15495706 | 16440658 | 16772789 | 16236385 | 4.08 | cps |
| Rhodium | 103-2 | 6629503 | 6614608 | 6645482 | 6629864 | 0.23 | cps |
| Scandium | 45-1 | 12039424 | 12552266 | 12430459 | 12340716 | 2.17 | cps |
| Scandium | 45-2 | 248304 | 248077 | 246779 | 247720 | 0.33 | cps |
| Selenium | 82-1 | 47 | 17 | -3 | 20 | 125.81 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 7 | 23 | 7 | 12 | 78.69 | cps |
| Silicon | 28-1 | 751638 | 760135 | 761073 | 757615 | 0.69 | cps |
| Silver | 107-1 | 537 | 627 | 693 | 619 | 12.70 | cps |
| Silver | 109-1 | 470 | 450 | 530 | 483 | 8.61 | cps |
| Sodium | 23-2 | 90833 | 89955 | 90703 | 90497 | 0.52 | cps |
| Strontium | 86-1 | 1100 | 1063 | 1033 | 1066 | 3.13 | cps |
| Strontium | 88-1 | 6118 | 5868 | 5625 | 5870 | 4.20 | cps |
| Sulfur | 34-1 | 947147 | 944689 | 950978 | 947605 | 0.33 | cps |
| Terbium | 159-1 | 20547711 | 21484308 | 21565886 | 21199302 | 2.67 | cps |
| Terbium | 159-2 | 7395978 | 7306615 | 7433169 | 7378587 | 0.88 | cps |
| Thallium | 203-1 | 530 | 527 | 570 | 542 | 4.45 | cps |
| Thallium | 205-1 | 1520 | 1520 | 1307 | 1449 | 8.50 | cps |
| Tin | 118-1 | 14228 | 14548 | 14014 | 14264 | 1.88 | cps |
| Titanium | 47-1 | 1237 | 1253 | 1033 | 1175 | 10.43 | cps |
| Uranium | 238-1 | 707 | 640 | 610 | 652 | 7.59 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03DUP | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:21:40 | DataFile Name : | 095AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 97 | 117 | 67 | 93 | 26.96 | cps |
| Ytterbium | 172-1 | 90 | 157 | 147 | 131 | 27.42 | cps |
| Ytterbium | 172-2 | 43 | 50 | 33 | 42 | 19.87 | cps |
| Ytterbium | 176-1 | 1743 | 2067 | 2017 | 1942 | 8.96 | cps |
| Ytterbium | 176-2 | 277 | 250 | 383 | 303 | 23.26 | cps |
| Yttrium | 89-1 | 29644003 | 30457540 | 30807708 | 30303084 | 1.97 | cps |
| Yttrium | 89-2 | 2257230 | 2254410 | 2237775 | 2249805 | 0.47 | cps |
| Zinc | 66-2 | 214623 | 215418 | 211994 | 214011 | 0.84 | cps |
| Zirconium | 90-1 | 1297 | 1430 | 1450 | 1392 | 5.99 | cps |
| Zirconium | 91-1 | 323 | 220 | 217 | 253 | 23.94 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 217 | 180 | 180 | 192 | 11.01 | cps |
| Antimony | 121-1 | 870 | 840 | 843 | 851 | 1.93 | cps |
| Arsenic | 75-2 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Barium | 135-1 | 160 | 207 | 170 | 179 | 13.74 | cps |
| Barium | 137-1 | 213 | 327 | 283 | 274 | 20.84 | cps |
| Beryllium | 9-1 | 784 | 739 | 760 | 761 | 2.96 | cps |
| Bismuth | 209-1 | 12762885 | 12890355 | 12775628 | 12809622 | 0.55 | cps |
| Bismuth | 209-2 | 6285193 | 5451637 | 4851229 | 5529353 | 13.02 | cps |
| Bromine | 81-1 | 6372 | 6732 | 6702 | 6602 | 3.03 | cps |
| Cadmium | 108-1 | 67 | 50 | 90 | 69 | 29.17 | cps |
| Cadmium | 106-1 | 8733 | 8493 | 8666 | 8631 | 1.44 | cps |
| Cadmium | 111-1 | 6163 | 5997 | 6057 | 6072 | 1.39 | cps |
| Calcium | 43-1 | 2494 | 2444 | 2430 | 2456 | 1.36 | cps |
| Calcium | 44-1 | 63071 | 63543 | 63365 | 63326 | 0.38 | cps |
| Carbon | 12-1 | 6653542 | 6797132 | 6759841 | 6736838 | 1.11 | cps |
| Carbon | 12-2 | 42842 | 42110 | 42037 | 42330 | 1.05 | cps |
| Chlorine | 35-1 | 339659 | 336982 | 334469 | 337037 | 0.77 | cps |
| Chlorine | 35-2 | 1267 | 1387 | 1243 | 1299 | 5.92 | cps |
| Chromium | 52-2 | 2140 | 2254 | 2297 | 2230 | 3.63 | cps |
| Cobalt | 59-2 | 173 | 193 | 120 | 162 | 23.37 | cps |
| Copper | 63-2 | 4397 | 4291 | 4134 | 4274 | 3.10 | cps |
| Dysprosium | 156-1 | 17 | 17 | 20 | 18 | 10.81 | cps |
| Dysprosium | 156-2 | 3 | 10 | 10 | 8 | 49.52 | cps |
| Erbium | 164-1 | 87 | 107 | 123 | 106 | 17.39 | cps |
| Erbium | 164-2 | 47 | 27 | 57 | 43 | 35.25 | cps |
| Gadolinium | 160-1 | 113 | 123 | 137 | 124 | 9.41 | cps |
| Gadolinium | 160-2 | 47 | 17 | 17 | 27 | 64.94 | cps |
| Holmium | 165-1 | 20857701 | 20787874 | 20433243 | 20692939 | 1.10 | cps |
| Holmium | 165-2 | 8576183 | 7261781 | 6672666 | 7503543 | 12.99 | cps |
| Indium | 115-1 | 17384031 | 17216318 | 16829475 | 17143275 | 1.66 | cps |
| Indium | 115-2 | 2004654 | 1710034 | 1472478 | 1729055 | 15.42 | cps |
| Iron | 54-2 | 1303 | 1357 | 1203 | 1288 | 6.04 | cps |
| Iron | 56-2 | 18966 | 19897 | 19200 | 19354 | 2.50 | cps |
| Iron | 57-2 | 540 | 457 | 483 | 493 | 8.63 | cps |
| Krypton | 83-1 | 293 | 370 | 330 | 331 | 11.58 | cps |
| Lead | 206-1 | 2684 | 2697 | 2640 | 2674 | 1.11 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2244 | 2297 | 2174 | 2238 | 2.76 | cps |
| Lead | 208-1 | 10448 | 10548 | 10365 | 10454 | 0.88 | cps |
| Lithium | 6-1 | 10085155 | 9718210 | 9755311 | 9852892 | 2.05 | cps |
| Magnesium | 24-2 | 7225 | 7489 | 7269 | 7327 | 1.93 | cps |
| Manganese | 55-2 | 320 | 413 | 297 | 343 | 17.98 | cps |
| Molybdenum | 94-1 | 46564 | 48019 | 47233 | 47272 | 1.54 | cps |
| Molybdenum | 95-1 | 81427 | 82423 | 82426 | 82092 | 0.70 | cps |
| Molybdenum | 96-1 | 86510 | 87409 | 87510 | 87143 | 0.63 | cps |
| Molybdenum | 97-1 | 50167 | 50642 | 50783 | 50530 | 0.64 | cps |
| Molybdenum | 98-1 | 130406 | 130651 | 130160 | 130406 | 0.19 | cps |
| Neodymium | 150-1 | 13 | 27 | 17 | 19 | 36.75 | cps |
| Neodymium | 150-2 | 3 | 3 | 17 | 8 | 99.04 | cps |
| Nickel | 60-2 | 1670 | 1700 | 1707 | 1692 | 1.15 | cps |
| Phosphorus | 31-2 | 213 | 200 | 187 | 200 | 6.67 | cps |
| Potassium | 39-2 | 18262 | 18108 | 18075 | 18148 | 0.55 | cps |
| Rhodium | 103-1 | 16208630 | 16442414 | 16126427 | 16259157 | 1.01 | cps |
| Rhodium | 103-2 | 7373179 | 6390099 | 5685138 | 6482806 | 13.08 | cps |
| Scandium | 45-1 | 12540421 | 12660600 | 12298785 | 12499936 | 1.47 | cps |
| Scandium | 45-2 | 278308 | 241207 | 213212 | 244242 | 13.37 | cps |
| Selenium | 82-1 | -13 | -63 | -63 | -47 | -61.87 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 7 | 7 | 17 | 10 | 57.72 | cps |
| Silicon | 28-1 | 673274 | 674565 | 670975 | 672938 | 0.27 | cps |
| Silver | 107-1 | 427 | 397 | 417 | 413 | 3.70 | cps |
| Silver | 109-1 | 253 | 237 | 320 | 270 | 16.33 | cps |
| Sodium | 23-2 | 72579 | 73289 | 72727 | 72865 | 0.51 | cps |
| Strontium | 86-1 | 667 | 600 | 700 | 656 | 7.77 | cps |
| Strontium | 88-1 | 2354 | 2404 | 2277 | 2345 | 2.72 | cps |
| Sulfur | 34-1 | 930253 | 929347 | 935005 | 931535 | 0.33 | cps |
| Terbium | 159-1 | 21046426 | 21405159 | 20859354 | 21103646 | 1.31 | cps |
| Terbium | 159-2 | 8210941 | 7119020 | 6364369 | 7231443 | 12.84 | cps |
| Thallium | 203-1 | 367 | 373 | 367 | 369 | 1.04 | cps |
| Thallium | 205-1 | 883 | 837 | 847 | 856 | 2.87 | cps |
| Tin | 118-1 | 4364 | 4277 | 4267 | 4303 | 1.24 | cps |
| Titanium | 47-1 | 477 | 517 | 520 | 504 | 4.78 | cps |
| Uranium | 238-1 | 127 | 123 | 80 | 110 | 23.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 17:25:00 | DataFile Name : | 096AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 47 | 33 | 23 | 34 | 34.00 | cps |
| Ytterbium | 172-1 | 103 | 143 | 93 | 113 | 23.35 | cps |
| Ytterbium | 172-2 | 50 | 77 | 57 | 61 | 22.71 | cps |
| Ytterbium | 176-1 | 1753 | 1913 | 1853 | 1840 | 4.39 | cps |
| Ytterbium | 176-2 | 357 | 273 | 250 | 293 | 19.12 | cps |
| Yttrium | 89-1 | 30302706 | 30659936 | 30051279 | 30337974 | 1.01 | cps |
| Yttrium | 89-2 | 2516331 | 2204761 | 1949393 | 2223495 | 12.77 | cps |
| Zinc | 66-2 | 41928 | 42958 | 41019 | 41969 | 2.31 | cps |
| Zirconium | 90-1 | 1067 | 1060 | 1097 | 1074 | 1.82 | cps |
| Zirconium | 91-1 | 243 | 230 | 220 | 231 | 5.07 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 128145 | 127389 | 127378 | 127637 | 0.34 | cps |
| Antimony | 121-1 | 1810940 | 1831906 | 1695284 | 1779377 | 4.13 | cps |
| Arsenic | 75-2 | 27 | 23 | 23 | 24 | 7.89 | cps |
| Barium | 135-1 | 1815267 | 1850458 | 1739886 | 1801870 | 3.14 | cps |
| Barium | 137-1 | 3135856 | 3104398 | 2977111 | 3072455 | 2.74 | cps |
| Beryllium | 9-1 | 627227 | 641607 | 591590 | 620141 | 4.15 | cps |
| Bismuth | 209-1 | 11661936 | 12347014 | 11459415 | 11822789 | 3.93 | cps |
| Bismuth | 209-2 | 4989386 | 4978190 | 5037620 | 5001732 | 0.63 | cps |
| Bromine | 81-1 | 8409 | 9166 | 9767 | 9114 | 7.46 | cps |
| Cadmium | 108-1 | 31513 | 32348 | 30146 | 31336 | 3.55 | cps |
| Cadmium | 106-1 | 55541 | 57054 | 52135 | 54910 | 4.59 | cps |
| Cadmium | 111-1 | 410028 | 420694 | 388031 | 406251 | 4.10 | cps |
| Calcium | 43-1 | 570030 | 584352 | 531415 | 561932 | 4.87 | cps |
| Calcium | 44-1 | 9218580 | 9584623 | 8660328 | 9154510 | 5.08 | cps |
| Carbon | 12-1 | 10012838 | 10399768 | 10402188 | 10271598 | 2.18 | cps |
| Carbon | 12-2 | 66807 | 66145 | 66918 | 66623 | 0.63 | cps |
| Chlorine | 35-1 | 11782844 | 13751573 | 13233935 | 12922784 | 7.90 | cps |
| Chlorine | 35-2 | 57323 | 59224 | 59920 | 58822 | 2.29 | cps |
| Chromium | 52-2 | 360137 | 356767 | 364210 | 360371 | 1.03 | cps |
| Cobalt | 59-2 | 697438 | 689502 | 695650 | 694197 | 0.60 | cps |
| Copper | 63-2 | 5496397 | 5497075 | 5592623 | 5528699 | 1.00 | cps |
| Dysprosium | 156-1 | 80 | 77 | 113 | 90 | 22.53 | cps |
| Dysprosium | 156-2 | 23 | 40 | 7 | 23 | 71.42 | cps |
| Erbium | 164-1 | 183 | 190 | 140 | 171 | 15.87 | cps |
| Erbium | 164-2 | 43 | 53 | 47 | 48 | 10.66 | cps |
| Gadolinium | 160-1 | 170 | 207 | 160 | 179 | 13.74 | cps |
| Gadolinium | 160-2 | 40 | 10 | 80 | 43 | 81.04 | cps |
| Holmium | 165-1 | 18945572 | 19873059 | 18788046 | 19202226 | 3.05 | cps |
| Holmium | 165-2 | 6784714 | 6761551 | 6889393 | 6811886 | 1.00 | cps |
| Indium | 115-1 | 15660730 | 16202986 | 15448906 | 15770874 | 2.47 | cps |
| Indium | 115-2 | 1520180 | 1525752 | 1552523 | 1532818 | 1.13 | cps |
| Iron | 54-2 | 674259 | 669510 | 679784 | 674518 | 0.76 | cps |
| Iron | 56-2 | 12507583 | 12398081 | 12566485 | 12490716 | 0.68 | cps |
| Iron | 57-2 | 306027 | 301858 | 310498 | 306128 | 1.41 | cps |
| Krypton | 83-1 | 340 | 227 | 257 | 274 | 21.40 | cps |
| Lead | 206-1 | 6445540 | 6443789 | 5934481 | 6274604 | 4.69 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5631447 | 5589179 | 5103724 | 5441450 | 5.39 | cps |
| Lead | 208-1 | 25636742 | 25807204 | 23692791 | 25045579 | 4.69 | cps |
| Lithium | 6-1 | 9235819 | 9877278 | 9198718 | 9437272 | 4.04 | cps |
| Magnesium | 24-2 | 2489496 | 2465039 | 2492325 | 2482287 | 0.60 | cps |
| Manganese | 55-2 | 1522837 | 1481809 | 1538326 | 1514324 | 1.93 | cps |
| Molybdenum | 94-1 | 3112265 | 3201586 | 2876605 | 3063485 | 5.48 | cps |
| Molybdenum | 95-1 | 3501839 | 3619227 | 3171627 | 3430898 | 6.76 | cps |
| Molybdenum | 96-1 | 3948567 | 4032097 | 3691988 | 3890884 | 4.56 | cps |
| Molybdenum | 97-1 | 2185173 | 2201917 | 2049225 | 2145438 | 3.90 | cps |
| Molybdenum | 98-1 | 5643128 | 5721689 | 5216972 | 5527263 | 4.91 | cps |
| Neodymium | 150-1 | 173 | 173 | 163 | 170 | 3.40 | cps |
| Neodymium | 150-2 | 7 | 20 | 13 | 13 | 49.99 | cps |
| Nickel | 60-2 | 194993 | 193051 | 193537 | 193861 | 0.52 | cps |
| Phosphorus | 31-2 | 720 | 640 | 597 | 652 | 9.59 | cps |
| Potassium | 39-2 | 653916 | 651447 | 654666 | 653343 | 0.26 | cps |
| Rhodium | 103-1 | 14814187 | 15382743 | 14795018 | 14997316 | 2.23 | cps |
| Rhodium | 103-2 | 5885546 | 5920341 | 5946596 | 5917494 | 0.52 | cps |
| Scandium | 45-1 | 11318209 | 12106945 | 11374572 | 11599908 | 3.79 | cps |
| Scandium | 45-2 | 225953 | 223118 | 224395 | 224489 | 0.63 | cps |
| Selenium | 82-1 | 25694 | 26666 | 24542 | 25634 | 4.15 | cps |
| Selenium | 77-2 | 363 | 433 | 417 | 404 | 9.04 | cps |
| Selenium | 78-2 | 1443 | 1390 | 1560 | 1465 | 5.94 | cps |
| Silicon | 28-1 | 745390 | 759987 | 738929 | 748102 | 1.44 | cps |
| Silver | 107-1 | 357915 | 368034 | 338455 | 354801 | 4.24 | cps |
| Silver | 109-1 | 332356 | 346022 | 321077 | 333152 | 3.75 | cps |
| Sodium | 23-2 | 5005735 | 4915691 | 5050540 | 4990655 | 1.38 | cps |
| Strontium | 86-1 | 640834 | 658266 | 605869 | 634990 | 4.20 | cps |
| Strontium | 88-1 | 5743217 | 5985839 | 5436532 | 5721863 | 4.81 | cps |
| Sulfur | 34-1 | 965937 | 974934 | 926220 | 955697 | 2.71 | cps |
| Terbium | 159-1 | 19537497 | 20362615 | 19658967 | 19853026 | 2.24 | cps |
| Terbium | 159-2 | 6548041 | 6564647 | 6680562 | 6597750 | 1.09 | cps |
| Thallium | 203-1 | 1480116 | 1518483 | 1418289 | 1472296 | 3.43 | cps |
| Thallium | 205-1 | 3727442 | 3814537 | 3481486 | 3674488 | 4.70 | cps |
| Tin | 118-1 | 1197218 | 1230489 | 1139304 | 1189003 | 3.88 | cps |
| Titanium | 47-1 | 2027 | 2124 | 1843 | 1998 | 7.12 | cps |
| Uranium | 238-1 | 4936789 | 5023273 | 4527696 | 4829253 | 5.48 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MS | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:28:19 | DataFile Name : | 097AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 291013 | 285441 | 290486 | 288980 | 1.06 | cps |
| Ytterbium | 172-1 | 180 | 173 | 210 | 188 | 10.40 | cps |
| Ytterbium | 172-2 | 93 | 50 | 90 | 78 | 31.00 | cps |
| Ytterbium | 176-1 | 8950 | 9057 | 8396 | 8801 | 4.03 | cps |
| Ytterbium | 176-2 | 2744 | 2660 | 2710 | 2705 | 1.55 | cps |
| Yttrium | 89-1 | 27929105 | 29419106 | 27514837 | 28287683 | 3.54 | cps |
| Yttrium | 89-2 | 1988936 | 2025646 | 2045072 | 2019885 | 1.41 | cps |
| Zinc | 66-2 | 743195 | 736016 | 747139 | 742117 | 0.76 | cps |
| Zirconium | 90-1 | 2935034 | 3011661 | 2785142 | 2910612 | 3.96 | cps |
| Zirconium | 91-1 | 626428 | 643631 | 594744 | 621601 | 3.99 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 143436 | 142052 | 140562 | 142017 | 1.01 | cps |
| Antimony | 121-1 | 1809337 | 1878621 | 1850839 | 1846265 | 1.89 | cps |
| Arsenic | 75-2 | 7 | 23 | 23 | 18 | 54.11 | cps |
| Barium | 135-1 | 1817448 | 1899493 | 1849926 | 1855622 | 2.23 | cps |
| Barium | 137-1 | 3204775 | 3272895 | 3242521 | 3240064 | 1.05 | cps |
| Beryllium | 9-1 | 634652 | 650389 | 649582 | 644875 | 1.37 | cps |
| Bismuth | 209-1 | 12336773 | 12632209 | 13226932 | 12731971 | 3.56 | cps |
| Bismuth | 209-2 | 5270569 | 5683739 | 5650191 | 5534833 | 4.15 | cps |
| Bromine | 81-1 | 7799 | 8709 | 8900 | 8469 | 6.95 | cps |
| Cadmium | 108-1 | 31476 | 33280 | 33006 | 32587 | 2.98 | cps |
| Cadmium | 106-1 | 56411 | 58102 | 58825 | 57779 | 2.14 | cps |
| Cadmium | 111-1 | 416243 | 429845 | 426997 | 424362 | 1.69 | cps |
| Calcium | 43-1 | 570561 | 588646 | 591342 | 583516 | 1.94 | cps |
| Calcium | 44-1 | 9189723 | 9715903 | 9665820 | 9523815 | 3.05 | cps |
| Carbon | 12-1 | 10293551 | 10840919 | 11039658 | 10724709 | 3.60 | cps |
| Carbon | 12-2 | 71402 | 70488 | 71834 | 71241 | 0.96 | cps |
| Chlorine | 35-1 | 13131564 | 14778019 | 15559933 | 14489838 | 8.55 | cps |
| Chlorine | 35-2 | 67295 | 67680 | 68330 | 67769 | 0.77 | cps |
| Chromium | 52-2 | 402547 | 401358 | 400324 | 401409 | 0.28 | cps |
| Cobalt | 59-2 | 777995 | 776224 | 778350 | 777523 | 0.15 | cps |
| Copper | 63-2 | 6147616 | 6068575 | 6151143 | 6122445 | 0.76 | cps |
| Dysprosium | 156-1 | 110 | 83 | 123 | 106 | 19.30 | cps |
| Dysprosium | 156-2 | 27 | 37 | 17 | 27 | 37.50 | cps |
| Erbium | 164-1 | 150 | 143 | 150 | 148 | 2.60 | cps |
| Erbium | 164-2 | 53 | 50 | 40 | 48 | 14.52 | cps |
| Gadolinium | 160-1 | 183 | 213 | 170 | 189 | 11.75 | cps |
| Gadolinium | 160-2 | 47 | 43 | 50 | 47 | 7.15 | cps |
| Holmium | 165-1 | 20391607 | 20848776 | 21608140 | 20949508 | 2.93 | cps |
| Holmium | 165-2 | 7296987 | 7842066 | 7620148 | 7586401 | 3.61 | cps |
| Indium | 115-1 | 16440518 | 16961400 | 17634174 | 17012031 | 3.52 | cps |
| Indium | 115-2 | 1645806 | 1822120 | 1804641 | 1757522 | 5.53 | cps |
| Iron | 54-2 | 761399 | 751787 | 753459 | 755548 | 0.68 | cps |
| Iron | 56-2 | 14149686 | 13653350 | 13919736 | 13907591 | 1.79 | cps |
| Iron | 57-2 | 343050 | 340101 | 341497 | 341549 | 0.43 | cps |
| Krypton | 83-1 | 300 | 253 | 260 | 271 | 9.31 | cps |
| Lead | 206-1 | 6405349 | 6650215 | 6648327 | 6567964 | 2.14 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5479200 | 5758778 | 5735494 | 5657824 | 2.74 | cps |
| Lead | 208-1 | 25300590 | 26086329 | 26148961 | 25845293 | 1.83 | cps |
| Lithium | 6-1 | 9690123 | 9934454 | 10519114 | 10047897 | 4.24 | cps |
| Magnesium | 24-2 | 2750565 | 2735387 | 2805481 | 2763811 | 1.33 | cps |
| Manganese | 55-2 | 1717403 | 1652736 | 1674721 | 1681620 | 1.96 | cps |
| Molybdenum | 94-1 | 3094407 | 3200146 | 3187998 | 3160851 | 1.83 | cps |
| Molybdenum | 95-1 | 3529272 | 3655020 | 3591876 | 3592056 | 1.75 | cps |
| Molybdenum | 96-1 | 3931953 | 4126994 | 4102073 | 4053674 | 2.62 | cps |
| Molybdenum | 97-1 | 2188215 | 2272759 | 2271427 | 2244134 | 2.16 | cps |
| Molybdenum | 98-1 | 5675061 | 5753704 | 5800976 | 5743247 | 1.11 | cps |
| Neodymium | 150-1 | 213 | 213 | 200 | 209 | 3.69 | cps |
| Neodymium | 150-2 | 13 | 13 | 27 | 18 | 43.33 | cps |
| Nickel | 60-2 | 214138 | 214431 | 212743 | 213771 | 0.42 | cps |
| Phosphorus | 31-2 | 787 | 703 | 760 | 750 | 5.67 | cps |
| Potassium | 39-2 | 730063 | 724608 | 725138 | 726603 | 0.41 | cps |
| Rhodium | 103-1 | 15735694 | 16152444 | 16937925 | 16275354 | 3.75 | cps |
| Rhodium | 103-2 | 6178560 | 6608727 | 6587933 | 6458407 | 3.76 | cps |
| Scandium | 45-1 | 11866643 | 12488956 | 13045867 | 12467155 | 4.73 | cps |
| Scandium | 45-2 | 235116 | 251785 | 250335 | 245745 | 3.76 | cps |
| Selenium | 82-1 | 26185 | 26719 | 27114 | 26673 | 1.75 | cps |
| Selenium | 77-2 | 480 | 427 | 543 | 483 | 12.08 | cps |
| Selenium | 78-2 | 1537 | 1643 | 1653 | 1611 | 4.01 | cps |
| Silicon | 28-1 | 752015 | 763358 | 765095 | 760156 | 0.93 | cps |
| Silver | 107-1 | 355939 | 376300 | 371484 | 367908 | 2.89 | cps |
| Silver | 109-1 | 337047 | 351997 | 351200 | 346748 | 2.43 | cps |
| Sodium | 23-2 | 5592194 | 5540666 | 5652629 | 5595163 | 1.00 | cps |
| Strontium | 86-1 | 643774 | 671839 | 666599 | 660738 | 2.26 | cps |
| Strontium | 88-1 | 5831094 | 5939998 | 5921408 | 5897500 | 0.99 | cps |
| Sulfur | 34-1 | 947165 | 957050 | 954170 | 952795 | 0.53 | cps |
| Terbium | 159-1 | 20280094 | 21461661 | 22241881 | 21327879 | 4.63 | cps |
| Terbium | 159-2 | 6940239 | 7486254 | 7400066 | 7275519 | 4.03 | cps |
| Thallium | 203-1 | 1498366 | 1569101 | 1555576 | 1541015 | 2.44 | cps |
| Thallium | 205-1 | 3796055 | 3855779 | 3864572 | 3838802 | 0.97 | cps |
| Tin | 118-1 | 1206997 | 1254105 | 1257798 | 1239633 | 2.28 | cps |
| Titanium | 47-1 | 2007 | 1923 | 2174 | 2035 | 6.26 | cps |
| Uranium | 238-1 | 4909493 | 5011781 | 4974057 | 4965111 | 1.04 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03MSD | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:31:23 | DataFile Name : | 098AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 321635 | 317143 | 318979 | 319252 | 0.71 | cps |
| Ytterbium | 172-1 | 220 | 210 | 150 | 193 | 19.58 | cps |
| Ytterbium | 172-2 | 83 | 67 | 67 | 72 | 13.32 | cps |
| Ytterbium | 176-1 | 8886 | 9077 | 9497 | 9153 | 3.41 | cps |
| Ytterbium | 176-2 | 2880 | 2967 | 2874 | 2907 | 1.79 | cps |
| Yttrium | 89-1 | 29274225 | 30331589 | 31611856 | 30405890 | 3.85 | cps |
| Yttrium | 89-2 | 2133831 | 2239502 | 2259511 | 2210948 | 3.05 | cps |
| Zinc | 66-2 | 833145 | 828393 | 829758 | 830432 | 0.29 | cps |
| Zirconium | 90-1 | 2915061 | 3011612 | 3033322 | 2986665 | 2.11 | cps |
| Zirconium | 91-1 | 618963 | 647728 | 647586 | 638092 | 2.60 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 139595 | 140534 | 138711 | 139613 | 0.65 | cps |
| Antimony | 121-1 | 1851350 | 1856405 | 1857210 | 1854988 | 0.17 | cps |
| Arsenic | 75-2 | 27 | 33 | 27 | 29 | 13.31 | cps |
| Barium | 135-1 | 1850213 | 1827644 | 1853085 | 1843647 | 0.76 | cps |
| Barium | 137-1 | 3123546 | 3233018 | 3211596 | 3189387 | 1.82 | cps |
| Beryllium | 9-1 | 630043 | 643778 | 642702 | 638841 | 1.20 | cps |
| Bismuth | 209-1 | 13023512 | 12797615 | 12722858 | 12847995 | 1.22 | cps |
| Bismuth | 209-2 | 5492066 | 5538979 | 5565924 | 5532323 | 0.68 | cps |
| Bromine | 81-1 | 7492 | 8289 | 8433 | 8071 | 6.28 | cps |
| Cadmium | 108-1 | 32315 | 32722 | 32538 | 32525 | 0.63 | cps |
| Cadmium | 106-1 | 56800 | 57536 | 57415 | 57250 | 0.69 | cps |
| Cadmium | 111-1 | 414737 | 425633 | 426229 | 422200 | 1.53 | cps |
| Calcium | 43-1 | 573256 | 579064 | 581371 | 577897 | 0.72 | cps |
| Calcium | 44-1 | 9516077 | 9597302 | 9616300 | 9576560 | 0.56 | cps |
| Carbon | 12-1 | 10021123 | 10596879 | 10901346 | 10506449 | 4.25 | cps |
| Carbon | 12-2 | 69041 | 69222 | 70230 | 69498 | 0.92 | cps |
| Chlorine | 35-1 | 13695803 | 15386136 | 16104193 | 15062044 | 8.21 | cps |
| Chlorine | 35-2 | 69670 | 68139 | 69271 | 69027 | 1.15 | cps |
| Chromium | 52-2 | 400145 | 403272 | 392149 | 398522 | 1.44 | cps |
| Cobalt | 59-2 | 770450 | 777426 | 766772 | 771549 | 0.70 | cps |
| Copper | 63-2 | 6048315 | 6062598 | 6129094 | 6080002 | 0.71 | cps |
| Dysprosium | 156-1 | 80 | 143 | 117 | 113 | 28.06 | cps |
| Dysprosium | 156-2 | 30 | 20 | 43 | 31 | 37.62 | cps |
| Erbium | 164-1 | 160 | 140 | 183 | 161 | 13.46 | cps |
| Erbium | 164-2 | 47 | 50 | 70 | 56 | 22.71 | cps |
| Gadolinium | 160-1 | 190 | 217 | 193 | 200 | 7.26 | cps |
| Gadolinium | 160-2 | 53 | 57 | 43 | 51 | 13.58 | cps |
| Holmium | 165-1 | 21472213 | 20574001 | 20544542 | 20863585 | 2.53 | cps |
| Holmium | 165-2 | 7557123 | 7439163 | 7586012 | 7527433 | 1.03 | cps |
| Indium | 115-1 | 17145931 | 16695366 | 17126682 | 16989326 | 1.50 | cps |
| Indium | 115-2 | 1746481 | 1725335 | 1731513 | 1734443 | 0.63 | cps |
| Iron | 54-2 | 751885 | 753759 | 740306 | 748650 | 0.97 | cps |
| Iron | 56-2 | 13611177 | 13910161 | 13603577 | 13708305 | 1.28 | cps |
| Iron | 57-2 | 338204 | 340558 | 337164 | 338642 | 0.51 | cps |
| Krypton | 83-1 | 237 | 270 | 283 | 263 | 9.13 | cps |
| Lead | 206-1 | 6513372 | 6690879 | 6611007 | 6605086 | 1.35 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5651269 | 5759770 | 5693421 | 5701486 | 0.96 | cps |
| Lead | 208-1 | 25842153 | 26366049 | 26128162 | 26112121 | 1.00 | cps |
| Lithium | 6-1 | 10265330 | 9769689 | 9897259 | 9977426 | 2.58 | cps |
| Magnesium | 24-2 | 2701933 | 2736700 | 2714614 | 2717749 | 0.65 | cps |
| Manganese | 55-2 | 1655787 | 1695395 | 1641089 | 1664090 | 1.69 | cps |
| Molybdenum | 94-1 | 3129686 | 3111197 | 3144664 | 3128516 | 0.54 | cps |
| Molybdenum | 95-1 | 3534867 | 3509626 | 3595524 | 3546672 | 1.24 | cps |
| Molybdenum | 96-1 | 4009298 | 4021619 | 3991138 | 4007352 | 0.38 | cps |
| Molybdenum | 97-1 | 2172624 | 2245161 | 2232178 | 2216655 | 1.74 | cps |
| Molybdenum | 98-1 | 5719281 | 5806023 | 5812852 | 5779385 | 0.90 | cps |
| Neodymium | 150-1 | 207 | 160 | 210 | 192 | 14.54 | cps |
| Neodymium | 150-2 | 13 | 7 | 20 | 13 | 49.99 | cps |
| Nickel | 60-2 | 212739 | 213427 | 211455 | 212541 | 0.47 | cps |
| Phosphorus | 31-2 | 660 | 713 | 833 | 736 | 12.07 | cps |
| Potassium | 39-2 | 719180 | 715303 | 709641 | 714708 | 0.67 | cps |
| Rhodium | 103-1 | 16560556 | 16508854 | 15978792 | 16349400 | 1.97 | cps |
| Rhodium | 103-2 | 6482514 | 6548237 | 6480834 | 6503861 | 0.59 | cps |
| Scandium | 45-1 | 12798590 | 12480788 | 12497643 | 12592340 | 1.42 | cps |
| Scandium | 45-2 | 244451 | 244796 | 244516 | 244588 | 0.07 | cps |
| Selenium | 82-1 | 25500 | 26479 | 26552 | 26177 | 2.24 | cps |
| Selenium | 77-2 | 360 | 470 | 550 | 460 | 20.74 | cps |
| Selenium | 78-2 | 1583 | 1640 | 1537 | 1587 | 3.26 | cps |
| Silicon | 28-1 | 757447 | 758479 | 760055 | 758660 | 0.17 | cps |
| Silver | 107-1 | 361177 | 371306 | 373739 | 368741 | 1.81 | cps |
| Silver | 109-1 | 341250 | 346571 | 351228 | 346349 | 1.44 | cps |
| Sodium | 23-2 | 5485203 | 5451551 | 5343413 | 5426722 | 1.37 | cps |
| Strontium | 86-1 | 652564 | 663455 | 669366 | 661795 | 1.29 | cps |
| Strontium | 88-1 | 5889685 | 5813739 | 5838404 | 5847276 | 0.66 | cps |
| Sulfur | 34-1 | 967261 | 938182 | 951016 | 952153 | 1.53 | cps |
| Terbium | 159-1 | 21694990 | 21196436 | 21379973 | 21423800 | 1.18 | cps |
| Terbium | 159-2 | 7257307 | 7367620 | 7179861 | 7268263 | 1.30 | cps |
| Thallium | 203-1 | 1513654 | 1547407 | 1550365 | 1537142 | 1.33 | cps |
| Thallium | 205-1 | 3881575 | 3873346 | 3863230 | 3872717 | 0.24 | cps |
| Tin | 118-1 | 1206869 | 1237642 | 1239809 | 1228107 | 1.50 | cps |
| Titanium | 47-1 | 2137 | 2184 | 2050 | 2124 | 3.19 | cps |
| Uranium | 238-1 | 4899217 | 5026521 | 5059401 | 4995046 | 1.69 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1271-03A | Instrumnet Name : | P8 |
| Client Sample ID : | 3189-3196A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:34:22 | DataFile Name : | 099AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 316258 | 317752 | 317441 | 317150 | 0.25 | cps |
| Ytterbium | 172-1 | 163 | 187 | 213 | 188 | 13.32 | cps |
| Ytterbium | 172-2 | 67 | 73 | 90 | 77 | 15.68 | cps |
| Ytterbium | 176-1 | 8993 | 9390 | 8943 | 9109 | 2.69 | cps |
| Ytterbium | 176-2 | 2867 | 3030 | 2990 | 2963 | 2.87 | cps |
| Yttrium | 89-1 | 31239248 | 30098863 | 30194879 | 30510996 | 2.07 | cps |
| Yttrium | 89-2 | 2191677 | 2253035 | 2224171 | 2222961 | 1.38 | cps |
| Zinc | 66-2 | 818565 | 820563 | 815521 | 818216 | 0.31 | cps |
| Zirconium | 90-1 | 2949925 | 3041153 | 3015424 | 3002167 | 1.57 | cps |
| Zirconium | 91-1 | 626505 | 643491 | 650605 | 640201 | 1.93 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3837921 | 3867795 | 3925672 | 3877129 | 1.15 | cps |
| Antimony | 121-1 | 8303360 | 8398786 | 8342650 | 8348265 | 0.57 | cps |
| Arsenic | 75-2 | 176832 | 180301 | 178607 | 178580 | 0.97 | cps |
| Barium | 135-1 | 9819433 | 9886462 | 9976222 | 9894039 | 0.80 | cps |
| Barium | 137-1 | 17191024 | 17176974 | 17260867 | 17209622 | 0.26 | cps |
| Beryllium | 9-1 | 3076029 | 3116096 | 3064182 | 3085436 | 0.88 | cps |
| Bismuth | 209-1 | 11232972 | 11104466 | 11042275 | 11126571 | 0.87 | cps |
| Bismuth | 209-2 | 4506220 | 4933425 | 4855644 | 4765097 | 4.78 | cps |
| Bromine | 81-1 | 5581 | 5848 | 5895 | 5775 | 2.93 | cps |
| Cadmium | 108-1 | 161048 | 163329 | 163558 | 162645 | 0.85 | cps |
| Cadmium | 106-1 | 237239 | 238969 | 239924 | 238711 | 0.57 | cps |
| Cadmium | 111-1 | 1995687 | 2038745 | 2052712 | 2029048 | 1.46 | cps |
| Calcium | 43-1 | 14662527 | 14403205 | 14280227 | 14448653 | 1.35 | cps |
| Calcium | 44-1 | 237704916 | 236659116 | 236488536 | 236950856 | 0.28 | cps |
| Carbon | 12-1 | 6257660 | 6273228 | 6421477 | 6317455 | 1.43 | cps |
| Carbon | 12-2 | 47376 | 48393 | 48075 | 47948 | 1.08 | cps |
| Chlorine | 35-1 | 944834 | 919967 | 894952 | 919918 | 2.71 | cps |
| Chlorine | 35-2 | 3454 | 3344 | 3284 | 3360 | 2.57 | cps |
| Chromium | 52-2 | 2055685 | 2080115 | 2055461 | 2063754 | 0.69 | cps |
| Cobalt | 59-2 | 3716351 | 3775751 | 3760521 | 3750874 | 0.82 | cps |
| Copper | 63-2 | 27798099 | 27559985 | 27964612 | 27774232 | 0.73 | cps |
| Dysprosium | 156-1 | 390 | 430 | 533 | 451 | 16.40 | cps |
| Dysprosium | 156-2 | 117 | 67 | 117 | 100 | 28.87 | cps |
| Erbium | 164-1 | 443 | 410 | 420 | 424 | 4.03 | cps |
| Erbium | 164-2 | 153 | 143 | 150 | 149 | 3.42 | cps |
| Gadolinium | 160-1 | 447 | 403 | 403 | 418 | 5.99 | cps |
| Gadolinium | 160-2 | 137 | 100 | 203 | 147 | 35.72 | cps |
| Holmium | 165-1 | 19823489 | 19839266 | 19478170 | 19713641 | 1.04 | cps |
| Holmium | 165-2 | 6673238 | 7396993 | 7143414 | 7071215 | 5.19 | cps |
| Indium | 115-1 | 15608196 | 15179795 | 15164193 | 15317395 | 1.64 | cps |
| Indium | 115-2 | 1457440 | 1590433 | 1557562 | 1535145 | 4.51 | cps |
| Iron | 54-2 | 19974763 | 20295518 | 19912419 | 20060900 | 1.02 | cps |
| Iron | 56-2 | 371532088 | 368655875 | 368319261 | 369502408 | 0.48 | cps |
| Iron | 57-2 | 9214272 | 9253167 | 9190487 | 9219308 | 0.34 | cps |
| Krypton | 83-1 | 293 | 310 | 307 | 303 | 2.91 | cps |
| Lead | 206-1 | 30190390 | 30758854 | 31686660 | 30878635 | 2.45 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26366985 | 26909122 | 27171272 | 26815793 | 1.53 | cps |
| Lead | 208-1 | 121089920 | 123397798 | 124474826 | 122987515 | 1.41 | cps |
| Lithium | 6-1 | 9033077 | 8854623 | 8837084 | 8908261 | 1.22 | cps |
| Magnesium | 24-2 | 67103702 | 66168516 | 67327789 | 66866669 | 0.92 | cps |
| Manganese | 55-2 | 8142965 | 8199256 | 8099850 | 8147357 | 0.61 | cps |
| Molybdenum | 94-1 | 30260795 | 31020079 | 30514633 | 30598502 | 1.26 | cps |
| Molybdenum | 95-1 | 42873132 | 44041143 | 42979121 | 43297799 | 1.49 | cps |
| Molybdenum | 96-1 | 47479096 | 48447758 | 47773953 | 47900269 | 1.04 | cps |
| Molybdenum | 97-1 | 26585945 | 26677245 | 27333910 | 26865700 | 1.52 | cps |
| Molybdenum | 98-1 | 69160702 | 70562467 | 71079932 | 70267701 | 1.41 | cps |
| Neodymium | 150-1 | 767 | 727 | 790 | 761 | 4.21 | cps |
| Neodymium | 150-2 | 53 | 67 | 50 | 57 | 15.57 | cps |
| Nickel | 60-2 | 965791 | 963871 | 963767 | 964477 | 0.12 | cps |
| Phosphorus | 31-2 | 37512 | 37692 | 37201 | 37468 | 0.66 | cps |
| Potassium | 39-2 | 19467770 | 19635863 | 19770558 | 19624730 | 0.77 | cps |
| Rhodium | 103-1 | 13981486 | 13925092 | 14126393 | 14010990 | 0.74 | cps |
| Rhodium | 103-2 | 5266787 | 5695885 | 5600425 | 5521032 | 4.08 | cps |
| Scandium | 45-1 | 11994527 | 11566904 | 11623449 | 11728293 | 1.98 | cps |
| Scandium | 45-2 | 215409 | 236753 | 232644 | 228269 | 4.96 | cps |
| Selenium | 82-1 | 122354 | 125051 | 122932 | 123445 | 1.15 | cps |
| Selenium | 77-2 | 2334 | 2287 | 2237 | 2286 | 2.12 | cps |
| Selenium | 78-2 | 7919 | 7872 | 7749 | 7847 | 1.12 | cps |
| Silicon | 28-1 | 7520093 | 7664471 | 7610112 | 7598225 | 0.96 | cps |
| Silver | 107-1 | 10039426 | 10171173 | 9986749 | 10065783 | 0.94 | cps |
| Silver | 109-1 | 9472292 | 9557491 | 9460565 | 9496782 | 0.56 | cps |
| Sodium | 23-2 | 136362598 | 138637828 | 133815718 | 136272048 | 1.77 | cps |
| Strontium | 86-1 | 2830568 | 2871290 | 2898925 | 2866928 | 1.20 | cps |
| Strontium | 88-1 | 24576885 | 24434506 | 24701007 | 24570799 | 0.54 | cps |
| Sulfur | 34-1 | 1670896 | 1655558 | 1661856 | 1662770 | 0.46 | cps |
| Terbium | 159-1 | 20109014 | 20026348 | 19841071 | 19992145 | 0.69 | cps |
| Terbium | 159-2 | 6380263 | 6911953 | 6860493 | 6717570 | 4.37 | cps |
| Thallium | 203-1 | 7551101 | 7620450 | 7929354 | 7700302 | 2.62 | cps |
| Thallium | 205-1 | 18190430 | 17912142 | 18318125 | 18140232 | 1.14 | cps |
| Tin | 118-1 | 6699396 | 6715918 | 6696698 | 6704004 | 0.16 | cps |
| Titanium | 47-1 | 13904944 | 13915456 | 13817289 | 13879230 | 0.39 | cps |
| Uranium | 238-1 | 24792958 | 25542172 | 24797098 | 25044076 | 1.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:39:33 | DataFile Name : | 100CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1632120 | 1626078 | 1629345 | 1629181 | 0.19 | cps |
| Ytterbium | 172-1 | 477 | 467 | 420 | 454 | 6.66 | cps |
| Ytterbium | 172-2 | 203 | 213 | 237 | 218 | 7.85 | cps |
| Ytterbium | 176-1 | 38486 | 39552 | 39064 | 39034 | 1.37 | cps |
| Ytterbium | 176-2 | 14181 | 14491 | 14608 | 14427 | 1.53 | cps |
| Yttrium | 89-1 | 29123899 | 28422285 | 28733330 | 28759838 | 1.22 | cps |
| Yttrium | 89-2 | 1931651 | 2155171 | 2115803 | 2067542 | 5.77 | cps |
| Zinc | 66-2 | 2980099 | 3022738 | 2981082 | 2994640 | 0.81 | cps |
| Zirconium | 90-1 | 15223440 | 15554068 | 15438509 | 15405339 | 1.09 | cps |
| Zirconium | 91-1 | 3413585 | 3530209 | 3406848 | 3450214 | 2.01 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 177 | 173 | 183 | 178 | 2.86 | cps |
| Antimony | 121-1 | 2790 | 2500 | 2250 | 2514 | 10.75 | cps |
| Arsenic | 75-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Barium | 135-1 | 597 | 490 | 340 | 476 | 27.11 | cps |
| Barium | 137-1 | 1347 | 710 | 500 | 852 | 51.74 | cps |
| Beryllium | 9-1 | 1930 | 1716 | 1557 | 1734 | 10.78 | cps |
| Bismuth | 209-1 | 12849331 | 12755888 | 12646106 | 12750441 | 0.80 | cps |
| Bismuth | 209-2 | 5277034 | 6196866 | 5791068 | 5754989 | 8.01 | cps |
| Bromine | 81-1 | 5798 | 5695 | 5821 | 5771 | 1.17 | cps |
| Cadmium | 108-1 | 27 | 33 | 10 | 23 | 51.50 | cps |
| Cadmium | 106-1 | 8616 | 8966 | 8573 | 8718 | 2.48 | cps |
| Cadmium | 111-1 | 6243 | 6363 | 6117 | 6241 | 1.97 | cps |
| Calcium | 43-1 | 1397 | 1203 | 1117 | 1239 | 11.57 | cps |
| Calcium | 44-1 | 51669 | 45061 | 42392 | 46374 | 10.30 | cps |
| Carbon | 12-1 | 5001327 | 4977383 | 4861908 | 4946873 | 1.51 | cps |
| Carbon | 12-2 | 31317 | 31333 | 30779 | 31143 | 1.01 | cps |
| Chlorine | 35-1 | 697404 | 684482 | 669230 | 683705 | 2.06 | cps |
| Chlorine | 35-2 | 2687 | 2634 | 2657 | 2659 | 1.01 | cps |
| Chromium | 52-2 | 1997 | 2357 | 2347 | 2234 | 9.18 | cps |
| Cobalt | 59-2 | 300 | 287 | 227 | 271 | 14.41 | cps |
| Copper | 63-2 | 5091 | 5084 | 5174 | 5117 | 0.98 | cps |
| Dysprosium | 156-1 | 20 | 13 | 7 | 13 | 49.99 | cps |
| Dysprosium | 156-2 | 0 | 13 | 0 | 4 | 173.21 | cps |
| Erbium | 164-1 | 73 | 127 | 103 | 101 | 26.45 | cps |
| Erbium | 164-2 | 60 | 43 | 27 | 43 | 38.46 | cps |
| Gadolinium | 160-1 | 120 | 157 | 110 | 129 | 19.06 | cps |
| Gadolinium | 160-2 | 17 | 23 | 23 | 21 | 18.21 | cps |
| Holmium | 165-1 | 20563532 | 20515853 | 20523622 | 20534336 | 0.12 | cps |
| Holmium | 165-2 | 6966179 | 8487519 | 7633374 | 7695691 | 9.91 | cps |
| Indium | 115-1 | 17329234 | 17119488 | 17044922 | 17164548 | 0.86 | cps |
| Indium | 115-2 | 1657344 | 1999755 | 1804229 | 1820443 | 9.44 | cps |
| Iron | 54-2 | 1177 | 1270 | 1180 | 1209 | 4.38 | cps |
| Iron | 56-2 | 20301 | 19223 | 19604 | 19709 | 2.77 | cps |
| Iron | 57-2 | 510 | 543 | 483 | 512 | 5.87 | cps |
| Krypton | 83-1 | 303 | 327 | 273 | 301 | 8.88 | cps |
| Lead | 206-1 | 6178 | 5094 | 4581 | 5284 | 15.43 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5331 | 4594 | 3831 | 4585 | 16.36 | cps |
| Lead | 208-1 | 24830 | 20530 | 18522 | 21294 | 15.13 | cps |
| Lithium | 6-1 | 9972755 | 9816754 | 9688517 | 9826009 | 1.45 | cps |
| Magnesium | 24-2 | 4494 | 4577 | 4501 | 4524 | 1.02 | cps |
| Manganese | 55-2 | 553 | 483 | 467 | 501 | 9.18 | cps |
| Molybdenum | 94-1 | 3370 | 2107 | 1827 | 2435 | 33.78 | cps |
| Molybdenum | 95-1 | 3647 | 2667 | 2120 | 2811 | 27.52 | cps |
| Molybdenum | 96-1 | 4231 | 2880 | 2270 | 3127 | 32.08 | cps |
| Molybdenum | 97-1 | 2360 | 1547 | 1250 | 1719 | 33.44 | cps |
| Molybdenum | 98-1 | 5888 | 3801 | 3017 | 4235 | 35.04 | cps |
| Neodymium | 150-1 | 20 | 10 | 10 | 13 | 43.30 | cps |
| Neodymium | 150-2 | 3 | 0 | 10 | 4 | 114.60 | cps |
| Nickel | 60-2 | 1527 | 1463 | 1580 | 1523 | 3.83 | cps |
| Phosphorus | 31-2 | 40 | 73 | 83 | 66 | 34.61 | cps |
| Potassium | 39-2 | 18719 | 18302 | 18709 | 18577 | 1.28 | cps |
| Rhodium | 103-1 | 16214348 | 15913099 | 16005191 | 16044213 | 0.96 | cps |
| Rhodium | 103-2 | 6240590 | 7399311 | 6597350 | 6745750 | 8.80 | cps |
| Scandium | 45-1 | 12545600 | 12535958 | 12263741 | 12448433 | 1.29 | cps |
| Scandium | 45-2 | 229835 | 271615 | 249934 | 250462 | 8.34 | cps |
| Selenium | 82-1 | -47 | 60 | 17 | 10 | 536.34 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 7 | 13 | 8 | 65.47 | cps |
| Silicon | 28-1 | 651738 | 644589 | 646084 | 647470 | 0.58 | cps |
| Silver | 107-1 | 1957 | 1633 | 1423 | 1671 | 16.08 | cps |
| Silver | 109-1 | 1877 | 1417 | 1147 | 1480 | 24.94 | cps |
| Sodium | 23-2 | 84975 | 84744 | 83369 | 84363 | 1.03 | cps |
| Strontium | 86-1 | 860 | 727 | 670 | 752 | 12.97 | cps |
| Strontium | 88-1 | 2787 | 2304 | 2070 | 2387 | 15.32 | cps |
| Sulfur | 34-1 | 831066 | 831570 | 833446 | 832027 | 0.15 | cps |
| Terbium | 159-1 | 21082891 | 21233463 | 20615436 | 20977264 | 1.54 | cps |
| Terbium | 159-2 | 6879964 | 8108457 | 7564632 | 7517684 | 8.19 | cps |
| Thallium | 203-1 | 1290 | 1120 | 910 | 1107 | 17.20 | cps |
| Thallium | 205-1 | 3024 | 2690 | 2444 | 2719 | 10.71 | cps |
| Tin | 118-1 | 2684 | 2354 | 2300 | 2446 | 8.49 | cps |
| Titanium | 47-1 | 1133 | 810 | 730 | 891 | 23.97 | cps |
| Uranium | 238-1 | 1920 | 1120 | 823 | 1288 | 44.05 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB005 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:42:16 | DataFile Name : | 101CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 63 | 63 | 60 | 62 | 3.09 | cps |
| Ytterbium | 172-1 | 123 | 113 | 107 | 114 | 7.33 | cps |
| Ytterbium | 172-2 | 57 | 40 | 43 | 47 | 18.90 | cps |
| Ytterbium | 176-1 | 1893 | 1934 | 1797 | 1875 | 3.75 | cps |
| Ytterbium | 176-2 | 250 | 413 | 343 | 336 | 24.42 | cps |
| Yttrium | 89-1 | 30581417 | 30111525 | 30266210 | 30319717 | 0.79 | cps |
| Yttrium | 89-2 | 2097458 | 2505411 | 2247259 | 2283376 | 9.04 | cps |
| Zinc | 66-2 | 343 | 367 | 337 | 349 | 4.52 | cps |
| Zirconium | 90-1 | 2547 | 2214 | 2024 | 2261 | 11.72 | cps |
| Zirconium | 91-1 | 510 | 373 | 417 | 433 | 16.12 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 103 | 100 | 127 | 110 | 13.21 | cps |
| Antimony | 121-1 | 580 | 707 | 727 | 671 | 11.85 | cps |
| Arsenic | 75-2 | 3 | 20 | 0 | 8 | 137.80 | cps |
| Barium | 135-1 | 110 | 63 | 80 | 84 | 28.01 | cps |
| Barium | 137-1 | 117 | 120 | 113 | 117 | 2.86 | cps |
| Beryllium | 9-1 | 1080 | 1017 | 1096 | 1064 | 3.91 | cps |
| Bismuth | 209-1 | 12972110 | 12839069 | 12915724 | 12908968 | 0.52 | cps |
| Bismuth | 209-2 | 5610570 | 5626813 | 5645676 | 5627686 | 0.31 | cps |
| Bromine | 81-1 | 5641 | 5648 | 5244 | 5511 | 4.19 | cps |
| Cadmium | 108-1 | 33 | 23 | 27 | 28 | 18.33 | cps |
| Cadmium | 106-1 | 8886 | 9010 | 8666 | 8854 | 1.97 | cps |
| Cadmium | 111-1 | 6237 | 6367 | 6094 | 6233 | 2.19 | cps |
| Calcium | 43-1 | 580 | 610 | 570 | 587 | 3.55 | cps |
| Calcium | 44-1 | 35046 | 34485 | 34662 | 34731 | 0.83 | cps |
| Carbon | 12-1 | 5261433 | 5345440 | 5312517 | 5306463 | 0.80 | cps |
| Carbon | 12-2 | 33548 | 33892 | 33177 | 33539 | 1.07 | cps |
| Chlorine | 35-1 | 580848 | 570178 | 563396 | 571474 | 1.54 | cps |
| Chlorine | 35-2 | 2324 | 2154 | 2084 | 2187 | 5.64 | cps |
| Chromium | 52-2 | 1133 | 1160 | 1270 | 1188 | 6.10 | cps |
| Cobalt | 59-2 | 133 | 180 | 120 | 144 | 21.81 | cps |
| Copper | 63-2 | 4134 | 3884 | 4227 | 4082 | 4.35 | cps |
| Dysprosium | 156-1 | 13 | 17 | 20 | 17 | 20.01 | cps |
| Dysprosium | 156-2 | 3 | 7 | 13 | 8 | 65.47 | cps |
| Erbium | 164-1 | 130 | 107 | 120 | 119 | 9.84 | cps |
| Erbium | 164-2 | 40 | 40 | 23 | 34 | 27.94 | cps |
| Gadolinium | 160-1 | 150 | 113 | 113 | 126 | 16.86 | cps |
| Gadolinium | 160-2 | 27 | 23 | 23 | 24 | 7.89 | cps |
| Holmium | 165-1 | 20827949 | 20516533 | 20894875 | 20746452 | 0.97 | cps |
| Holmium | 165-2 | 7610377 | 7572344 | 7662356 | 7615025 | 0.59 | cps |
| Indium | 115-1 | 17368095 | 17577208 | 17498962 | 17481421 | 0.60 | cps |
| Indium | 115-2 | 1765548 | 1783835 | 1838287 | 1795890 | 2.11 | cps |
| Iron | 54-2 | 737 | 677 | 730 | 714 | 4.60 | cps |
| Iron | 56-2 | 9894 | 9750 | 9910 | 9851 | 0.89 | cps |
| Iron | 57-2 | 247 | 227 | 260 | 244 | 6.86 | cps |
| Krypton | 83-1 | 280 | 327 | 310 | 306 | 7.74 | cps |
| Lead | 206-1 | 2990 | 2807 | 2874 | 2890 | 3.21 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2607 | 2494 | 2504 | 2535 | 2.48 | cps |
| Lead | 208-1 | 11796 | 11319 | 11099 | 11404 | 3.12 | cps |
| Lithium | 6-1 | 9918251 | 10090131 | 9950667 | 9986350 | 0.91 | cps |
| Magnesium | 24-2 | 3734 | 3847 | 3904 | 3828 | 2.26 | cps |
| Manganese | 55-2 | 210 | 230 | 223 | 221 | 4.61 | cps |
| Molybdenum | 94-1 | 737 | 730 | 703 | 723 | 2.44 | cps |
| Molybdenum | 95-1 | 470 | 437 | 453 | 453 | 3.68 | cps |
| Molybdenum | 96-1 | 563 | 500 | 473 | 512 | 9.02 | cps |
| Molybdenum | 97-1 | 310 | 313 | 287 | 303 | 4.79 | cps |
| Molybdenum | 98-1 | 727 | 693 | 577 | 666 | 11.83 | cps |
| Neodymium | 150-1 | 3 | 10 | 27 | 13 | 90.16 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1280 | 1300 | 1167 | 1249 | 5.76 | cps |
| Phosphorus | 31-2 | 107 | 100 | 77 | 94 | 16.68 | cps |
| Potassium | 39-2 | 18018 | 18288 | 18459 | 18255 | 1.22 | cps |
| Rhodium | 103-1 | 16665474 | 16573781 | 16683774 | 16641010 | 0.35 | cps |
| Rhodium | 103-2 | 6618371 | 6674134 | 6685914 | 6659473 | 0.54 | cps |
| Scandium | 45-1 | 12590160 | 12735279 | 12844455 | 12723298 | 1.00 | cps |
| Scandium | 45-2 | 247110 | 246507 | 249519 | 247712 | 0.64 | cps |
| Selenium | 82-1 | 17 | 3 | -37 | -6 | -499.50 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Silicon | 28-1 | 645843 | 644639 | 645787 | 645423 | 0.11 | cps |
| Silver | 107-1 | 610 | 570 | 507 | 562 | 9.27 | cps |
| Silver | 109-1 | 397 | 343 | 297 | 346 | 14.48 | cps |
| Sodium | 23-2 | 69564 | 69963 | 70640 | 70056 | 0.78 | cps |
| Strontium | 86-1 | 620 | 617 | 610 | 616 | 0.83 | cps |
| Strontium | 88-1 | 1293 | 1193 | 1320 | 1269 | 5.26 | cps |
| Sulfur | 34-1 | 935733 | 916711 | 913464 | 921969 | 1.30 | cps |
| Terbium | 159-1 | 21376220 | 21360445 | 21275912 | 21337525 | 0.25 | cps |
| Terbium | 159-2 | 7470122 | 7393752 | 7374846 | 7412907 | 0.68 | cps |
| Thallium | 203-1 | 597 | 437 | 523 | 519 | 15.44 | cps |
| Thallium | 205-1 | 1420 | 1370 | 1287 | 1359 | 4.96 | cps |
| Tin | 118-1 | 2444 | 2300 | 2350 | 2365 | 3.08 | cps |
| Titanium | 47-1 | 370 | 287 | 277 | 311 | 16.47 | cps |
| Uranium | 238-1 | 83 | 53 | 43 | 60 | 34.70 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:45:57 | DataFile Name : | 102CCBD.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 17 | 10 | 13 | 25.01 | cps |
| Ytterbium | 172-1 | 117 | 127 | 120 | 121 | 4.20 | cps |
| Ytterbium | 172-2 | 47 | 47 | 47 | 47 | 0.00 | cps |
| Ytterbium | 176-1 | 2120 | 1980 | 2014 | 2038 | 3.59 | cps |
| Ytterbium | 176-2 | 343 | 327 | 333 | 334 | 2.51 | cps |
| Yttrium | 89-1 | 31095025 | 31329525 | 30805903 | 31076818 | 0.84 | cps |
| Yttrium | 89-2 | 2286012 | 2260938 | 2276923 | 2274624 | 0.56 | cps |
| Zinc | 66-2 | 177 | 210 | 177 | 188 | 10.25 | cps |
| Zirconium | 90-1 | 1157 | 1230 | 1197 | 1195 | 3.07 | cps |
| Zirconium | 91-1 | 193 | 210 | 253 | 219 | 14.15 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 788810 | 798476 | 784662 | 790649 | 0.90 | cps |
| Antimony | 121-1 | 9111695 | 9187005 | 9411248 | 9236649 | 1.69 | cps |
| Arsenic | 75-2 | 192000 | 191759 | 191932 | 191897 | 0.06 | cps |
| Barium | 135-1 | 10679816 | 10617431 | 10970321 | 10755856 | 1.75 | cps |
| Barium | 137-1 | 18465371 | 18688577 | 18707032 | 18620327 | 0.72 | cps |
| Beryllium | 9-1 | 3435732 | 3365695 | 3340713 | 3380713 | 1.46 | cps |
| Bismuth | 209-1 | 12034868 | 12175296 | 12080544 | 12096902 | 0.59 | cps |
| Bismuth | 209-2 | 5253578 | 5368771 | 5266311 | 5296220 | 1.19 | cps |
| Bromine | 81-1 | 5808 | 5725 | 5671 | 5735 | 1.20 | cps |
| Cadmium | 108-1 | 179668 | 183154 | 182147 | 181656 | 0.99 | cps |
| Cadmium | 106-1 | 261942 | 261370 | 265592 | 262968 | 0.87 | cps |
| Cadmium | 111-1 | 2261525 | 2291746 | 2293844 | 2282372 | 0.79 | cps |
| Calcium | 43-1 | 3208305 | 3175605 | 3172602 | 3185504 | 0.62 | cps |
| Calcium | 44-1 | 51412978 | 51597063 | 51868241 | 51626094 | 0.44 | cps |
| Carbon | 12-1 | 6110031 | 6154946 | 6305416 | 6190131 | 1.65 | cps |
| Carbon | 12-2 | 41285 | 41940 | 41361 | 41529 | 0.86 | cps |
| Chlorine | 35-1 | 512134 | 505985 | 509035 | 509051 | 0.60 | cps |
| Chlorine | 35-2 | 1853 | 1987 | 1903 | 1915 | 3.52 | cps |
| Chromium | 52-2 | 2193624 | 2218691 | 2194944 | 2202420 | 0.64 | cps |
| Cobalt | 59-2 | 4067730 | 4087122 | 4054284 | 4069712 | 0.41 | cps |
| Copper | 63-2 | 31004570 | 30962315 | 30867650 | 30944845 | 0.23 | cps |
| Dysprosium | 156-1 | 163 | 187 | 190 | 180 | 8.07 | cps |
| Dysprosium | 156-2 | 43 | 30 | 30 | 34 | 22.34 | cps |
| Erbium | 164-1 | 243 | 207 | 237 | 229 | 8.53 | cps |
| Erbium | 164-2 | 73 | 80 | 97 | 83 | 14.43 | cps |
| Gadolinium | 160-1 | 223 | 197 | 217 | 212 | 6.54 | cps |
| Gadolinium | 160-2 | 43 | 53 | 40 | 46 | 15.23 | cps |
| Holmium | 165-1 | 19727949 | 20840070 | 20403160 | 20323726 | 2.76 | cps |
| Holmium | 165-2 | 7391876 | 7574985 | 7539335 | 7502065 | 1.29 | cps |
| Indium | 115-1 | 16091911 | 16605106 | 16413251 | 16370089 | 1.58 | cps |
| Indium | 115-2 | 1623974 | 1683812 | 1687363 | 1665050 | 2.14 | cps |
| Iron | 54-2 | 4390419 | 4426313 | 4353811 | 4390181 | 0.83 | cps |
| Iron | 56-2 | 78766435 | 79011189 | 78107604 | 78628409 | 0.59 | cps |
| Iron | 57-2 | 2032395 | 2006871 | 2003508 | 2014258 | 0.78 | cps |
| Krypton | 83-1 | 250 | 260 | 327 | 279 | 14.94 | cps |
| Lead | 206-1 | 34594727 | 34313957 | 34751519 | 34553401 | 0.64 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 29440015 | 29706970 | 29796660 | 29647882 | 0.63 | cps |
| Lead | 208-1 | 136400550 | 136543365 | 136913704 | 136619206 | 0.19 | cps |
| Lithium | 6-1 | 9647429 | 9596327 | 9536866 | 9593541 | 0.58 | cps |
| Magnesium | 24-2 | 14987341 | 14882710 | 14682342 | 14850798 | 1.04 | cps |
| Manganese | 55-2 | 8651401 | 8806291 | 8568046 | 8675246 | 1.39 | cps |
| Molybdenum | 94-1 | 32377070 | 32890964 | 32785129 | 32684388 | 0.83 | cps |
| Molybdenum | 95-1 | 46261461 | 46609618 | 47145929 | 46672336 | 0.95 | cps |
| Molybdenum | 96-1 | 50533208 | 51444643 | 50655976 | 50877942 | 0.97 | cps |
| Molybdenum | 97-1 | 28466218 | 29507514 | 28262887 | 28745540 | 2.32 | cps |
| Molybdenum | 98-1 | 74630459 | 76083987 | 74463176 | 75059207 | 1.19 | cps |
| Neodymium | 150-1 | 677 | 803 | 693 | 724 | 9.50 | cps |
| Neodymium | 150-2 | 20 | 7 | 33 | 20 | 66.65 | cps |
| Nickel | 60-2 | 1128403 | 1115585 | 1118456 | 1120815 | 0.60 | cps |
| Phosphorus | 31-2 | 40273 | 40189 | 39310 | 39924 | 1.34 | cps |
| Potassium | 39-2 | 4220788 | 4221897 | 4152677 | 4198454 | 0.94 | cps |
| Rhodium | 103-1 | 14917019 | 15821929 | 15049048 | 15262665 | 3.20 | cps |
| Rhodium | 103-2 | 5971852 | 6143292 | 6169406 | 6094850 | 1.76 | cps |
| Scandium | 45-1 | 11763825 | 12396173 | 12284063 | 12148020 | 2.78 | cps |
| Scandium | 45-2 | 236935 | 243866 | 243604 | 241468 | 1.63 | cps |
| Selenium | 82-1 | 136160 | 137216 | 138038 | 137138 | 0.69 | cps |
| Selenium | 77-2 | 2550 | 2514 | 2387 | 2484 | 3.45 | cps |
| Selenium | 78-2 | 7746 | 8403 | 8436 | 8195 | 4.75 | cps |
| Silicon | 28-1 | 7968609 | 7995378 | 8069853 | 8011280 | 0.65 | cps |
| Silver | 107-1 | 11497659 | 11371213 | 11797747 | 11555540 | 1.90 | cps |
| Silver | 109-1 | 10775501 | 10840196 | 10828124 | 10814607 | 0.32 | cps |
| Sodium | 23-2 | 30517800 | 30238424 | 29677624 | 30144616 | 1.42 | cps |
| Strontium | 86-1 | 3065617 | 3073406 | 3065584 | 3068202 | 0.15 | cps |
| Strontium | 88-1 | 25945038 | 26333176 | 26346007 | 26208074 | 0.87 | cps |
| Sulfur | 34-1 | 1725711 | 1727646 | 1766896 | 1740084 | 1.34 | cps |
| Terbium | 159-1 | 20486605 | 20948348 | 21141041 | 20858665 | 1.61 | cps |
| Terbium | 159-2 | 7025131 | 7190974 | 7079256 | 7098454 | 1.19 | cps |
| Thallium | 203-1 | 8372167 | 8561059 | 8479963 | 8471063 | 1.12 | cps |
| Thallium | 205-1 | 20177702 | 19618636 | 20074694 | 19957011 | 1.49 | cps |
| Tin | 118-1 | 7257685 | 7326277 | 7240204 | 7274722 | 0.63 | cps |
| Titanium | 47-1 | 14657052 | 14812342 | 14884809 | 14784734 | 0.79 | cps |
| Uranium | 238-1 | 26758680 | 26886289 | 26327307 | 26657425 | 1.10 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166282BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS282 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:49:27 | DataFile Name : | 103LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1695328 | 1700808 | 1682696 | 1692944 | 0.55 | cps |
| Ytterbium | 172-1 | 207 | 257 | 183 | 216 | 17.38 | cps |
| Ytterbium | 172-2 | 100 | 93 | 67 | 87 | 20.35 | cps |
| Ytterbium | 176-1 | 40144 | 40716 | 40622 | 40494 | 0.76 | cps |
| Ytterbium | 176-2 | 14625 | 14348 | 14745 | 14573 | 1.40 | cps |
| Yttrium | 89-1 | 29538938 | 30268563 | 29979701 | 29929067 | 1.23 | cps |
| Yttrium | 89-2 | 2166223 | 2213434 | 2173615 | 2184424 | 1.16 | cps |
| Zinc | 66-2 | 3452970 | 3401397 | 3389909 | 3414759 | 0.98 | cps |
| Zirconium | 90-1 | 16259081 | 16196349 | 16312471 | 16255967 | 0.36 | cps |
| Zirconium | 91-1 | 3656236 | 3648432 | 3678016 | 3660895 | 0.42 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-012425 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6562 | 6425 | 6615 | 6534 | 1.50 | cps |
| Antimony | 121-1 | 4527 | 4304 | 4391 | 4407 | 2.56 | cps |
| Arsenic | 75-2 | 1753 | 1827 | 1963 | 1848 | 5.77 | cps |
| Barium | 135-1 | 662122 | 664526 | 660210 | 662286 | 0.33 | cps |
| Barium | 137-1 | 1161346 | 1168919 | 1165196 | 1165154 | 0.33 | cps |
| Beryllium | 9-1 | 1916 | 1779 | 1825 | 1840 | 3.80 | cps |
| Bismuth | 209-1 | 12551705 | 12408013 | 12630236 | 12529985 | 0.90 | cps |
| Bismuth | 209-2 | 5773603 | 5356077 | 5375571 | 5501751 | 4.28 | cps |
| Bromine | 81-1 | 19948 | 20405 | 21547 | 20633 | 3.99 | cps |
| Cadmium | 108-1 | 103 | 77 | 97 | 92 | 15.05 | cps |
| Cadmium | 106-1 | 8693 | 8609 | 9066 | 8790 | 2.77 | cps |
| Cadmium | 111-1 | 6496 | 6370 | 6695 | 6520 | 2.52 | cps |
| Calcium | 43-1 | 4275137 | 4258375 | 4255749 | 4263087 | 0.25 | cps |
| Calcium | 44-1 | 68498687 | 69827559 | 68683667 | 69003305 | 1.04 | cps |
| Carbon | 12-1 | 10054681 | 11017184 | 11526980 | 10866282 | 6.88 | cps |
| Carbon | 12-2 | 76598 | 76662 | 78531 | 77264 | 1.42 | cps |
| Chlorine | 35-1 | 541931 | 550619 | 560590 | 551047 | 1.69 | cps |
| Chlorine | 35-2 | 2184 | 2300 | 2200 | 2228 | 2.83 | cps |
| Chromium | 52-2 | 3370 | 3374 | 3267 | 3337 | 1.82 | cps |
| Cobalt | 59-2 | 610166 | 617665 | 619360 | 615731 | 0.79 | cps |
| Copper | 63-2 | 8166 | 8186 | 8102 | 8151 | 0.53 | cps |
| Dysprosium | 156-1 | 2954 | 2927 | 2780 | 2887 | 3.23 | cps |
| Dysprosium | 156-2 | 980 | 940 | 940 | 953 | 2.42 | cps |
| Erbium | 164-1 | 2067 | 1987 | 1974 | 2009 | 2.51 | cps |
| Erbium | 164-2 | 757 | 723 | 680 | 720 | 5.34 | cps |
| Gadolinium | 160-1 | 2740 | 2487 | 2527 | 2585 | 5.27 | cps |
| Gadolinium | 160-2 | 1113 | 1250 | 1117 | 1160 | 6.72 | cps |
| Holmium | 165-1 | 20469810 | 20256690 | 20345049 | 20357183 | 0.53 | cps |
| Holmium | 165-2 | 7666290 | 7422114 | 7400447 | 7496284 | 1.97 | cps |
| Indium | 115-1 | 16815190 | 16670658 | 16727514 | 16737787 | 0.44 | cps |
| Indium | 115-2 | 1792882 | 1716472 | 1737866 | 1749073 | 2.25 | cps |
| Iron | 54-2 | 3967812 | 4047240 | 3964294 | 3993115 | 1.17 | cps |
| Iron | 56-2 | 71626461 | 72819944 | 71936167 | 72127524 | 0.86 | cps |
| Iron | 57-2 | 1849714 | 1871059 | 1840099 | 1853624 | 0.85 | cps |
| Krypton | 83-1 | 303 | 270 | 280 | 284 | 6.01 | cps |
| Lead | 206-1 | 11492 | 11385 | 11125 | 11334 | 1.67 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-012425 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 9614 | 9303 | 9040 | 9319 | 3.08 | cps |
| Lead | 208-1 | 44834 | 43218 | 42571 | 43541 | 2.68 | cps |
| Lithium | 6-1 | 9808804 | 9849880 | 9709916 | 9789533 | 0.73 | cps |
| Magnesium | 24-2 | 2294863 | 2275568 | 2297348 | 2289260 | 0.52 | cps |
| Manganese | 55-2 | 3573047 | 3619385 | 3582432 | 3591621 | 0.68 | cps |
| Molybdenum | 94-1 | 4394 | 4294 | 4091 | 4260 | 3.63 | cps |
| Molybdenum | 95-1 | 4091 | 3647 | 3444 | 3727 | 8.87 | cps |
| Molybdenum | 96-1 | 4818 | 4111 | 4057 | 4329 | 9.80 | cps |
| Molybdenum | 97-1 | 2634 | 2197 | 2164 | 2331 | 11.25 | cps |
| Molybdenum | 98-1 | 6255 | 5378 | 5161 | 5598 | 10.35 | cps |
| Neodymium | 150-1 | 4314 | 4077 | 4134 | 4175 | 2.96 | cps |
| Neodymium | 150-2 | 1020 | 1073 | 1083 | 1059 | 3.22 | cps |
| Nickel | 60-2 | 165122 | 165649 | 167604 | 166125 | 0.79 | cps |
| Phosphorus | 31-2 | 127 | 120 | 127 | 124 | 3.09 | cps |
| Potassium | 39-2 | 507658 | 508182 | 510978 | 508939 | 0.35 | cps |
| Rhodium | 103-1 | 15627058 | 15650832 | 15552136 | 15610009 | 0.33 | cps |
| Rhodium | 103-2 | 6576977 | 6236634 | 6271378 | 6361663 | 2.94 | cps |
| Scandium | 45-1 | 11909744 | 12301999 | 12432284 | 12214676 | 2.23 | cps |
| Scandium | 45-2 | 251750 | 239802 | 241633 | 244395 | 2.63 | cps |
| Selenium | 82-1 | 90 | 103 | 100 | 98 | 7.10 | cps |
| Selenium | 77-2 | 7 | 7 | 10 | 8 | 24.71 | cps |
| Selenium | 78-2 | 13 | 17 | 23 | 18 | 28.64 | cps |
| Silicon | 28-1 | 98641812 | 98105972 | 97933915 | 98227233 | 0.38 | cps |
| Silver | 107-1 | 1323 | 1010 | 1137 | 1157 | 13.63 | cps |
| Silver | 109-1 | 1010 | 967 | 1010 | 996 | 2.51 | cps |
| Sodium | 23-2 | 1425535 | 1451670 | 1438861 | 1438689 | 0.91 | cps |
| Strontium | 86-1 | 2018077 | 2044459 | 2066547 | 2043027 | 1.19 | cps |
| Strontium | 88-1 | 17490179 | 17706751 | 17490413 | 17562448 | 0.71 | cps |
| Sulfur | 34-1 | 2564712 | 2611502 | 2591406 | 2589207 | 0.91 | cps |
| Terbium | 159-1 | 20683541 | 20924196 | 21209183 | 20938973 | 1.26 | cps |
| Terbium | 159-2 | 7488097 | 7147123 | 7087413 | 7240878 | 2.99 | cps |
| Thallium | 203-1 | 4931 | 5058 | 4808 | 4932 | 2.54 | cps |
| Thallium | 205-1 | 11792 | 11882 | 11802 | 11825 | 0.42 | cps |
| Tin | 118-1 | 7299 | 7022 | 6979 | 7100 | 2.45 | cps |
| Titanium | 47-1 | 7705 | 7182 | 7425 | 7438 | 3.52 | cps |
| Uranium | 238-1 | 11859 | 11202 | 11435 | 11499 | 2.90 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL3-MW04S-012425 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:53:19 | DataFile Name : | 104AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1503 | 1417 | 1500 | 1473 | 3.33 | cps |
| Ytterbium | 172-1 | 713 | 853 | 770 | 779 | 9.04 | cps |
| Ytterbium | 172-2 | 337 | 347 | 320 | 334 | 4.03 | cps |
| Ytterbium | 176-1 | 2420 | 2534 | 2430 | 2461 | 2.55 | cps |
| Ytterbium | 176-2 | 420 | 533 | 473 | 476 | 11.92 | cps |
| Yttrium | 89-1 | 29623970 | 30394017 | 30164567 | 30060851 | 1.32 | cps |
| Yttrium | 89-2 | 2301143 | 2149961 | 2198502 | 2216536 | 3.48 | cps |
| Zinc | 66-2 | 901349 | 916162 | 903298 | 906936 | 0.89 | cps |
| Zirconium | 90-1 | 6098 | 6241 | 5755 | 6031 | 4.15 | cps |
| Zirconium | 91-1 | 1280 | 1197 | 1280 | 1252 | 3.84 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 14387 | 14771 | 15183 | 14780 | 2.69 | cps |
| Antimony | 121-1 | 2324 | 2340 | 2294 | 2319 | 1.02 | cps |
| Arsenic | 75-2 | 1493 | 1397 | 1430 | 1440 | 3.41 | cps |
| Barium | 135-1 | 175882 | 171957 | 174710 | 174183 | 1.16 | cps |
| Barium | 137-1 | 300190 | 302055 | 300362 | 300869 | 0.34 | cps |
| Beryllium | 9-1 | 1126 | 1176 | 1135 | 1146 | 2.33 | cps |
| Bismuth | 209-1 | 12198984 | 12727255 | 12448021 | 12458087 | 2.12 | cps |
| Bismuth | 209-2 | 5429857 | 5526423 | 5411111 | 5455797 | 1.13 | cps |
| Bromine | 81-1 | 22839 | 26512 | 28589 | 25980 | 11.21 | cps |
| Cadmium | 108-1 | 67 | 73 | 57 | 66 | 12.79 | cps |
| Cadmium | 106-1 | 8993 | 9317 | 8870 | 9060 | 2.55 | cps |
| Cadmium | 111-1 | 6345 | 6527 | 6229 | 6367 | 2.36 | cps |
| Calcium | 43-1 | 2312389 | 2318200 | 2248582 | 2293057 | 1.68 | cps |
| Calcium | 44-1 | 37452899 | 37704161 | 36728667 | 37295242 | 1.36 | cps |
| Carbon | 12-1 | 12751819 | 13941498 | 14705313 | 13799543 | 7.13 | cps |
| Carbon | 12-2 | 95199 | 97061 | 96430 | 96230 | 0.98 | cps |
| Chlorine | 35-1 | 5537949 | 6315604 | 6680311 | 6177955 | 9.44 | cps |
| Chlorine | 35-2 | 28899 | 29467 | 29891 | 29419 | 1.69 | cps |
| Chromium | 52-2 | 6465 | 6632 | 6388 | 6495 | 1.92 | cps |
| Cobalt | 59-2 | 3991 | 4234 | 4057 | 4094 | 3.07 | cps |
| Copper | 63-2 | 6865 | 6848 | 7145 | 6953 | 2.40 | cps |
| Dysprosium | 156-1 | 3267 | 3290 | 3094 | 3217 | 3.34 | cps |
| Dysprosium | 156-2 | 800 | 947 | 823 | 857 | 9.20 | cps |
| Erbium | 164-1 | 1773 | 2014 | 1850 | 1879 | 6.52 | cps |
| Erbium | 164-2 | 667 | 580 | 697 | 648 | 9.35 | cps |
| Gadolinium | 160-1 | 2164 | 2130 | 2220 | 2171 | 2.10 | cps |
| Gadolinium | 160-2 | 1027 | 1020 | 933 | 993 | 5.24 | cps |
| Holmium | 165-1 | 20169047 | 21047938 | 20537306 | 20584763 | 2.14 | cps |
| Holmium | 165-2 | 7449821 | 7629643 | 7654265 | 7577910 | 1.47 | cps |
| Indium | 115-1 | 16469906 | 17235184 | 17066180 | 16923757 | 2.38 | cps |
| Indium | 115-2 | 1764132 | 1765430 | 1763002 | 1764188 | 0.07 | cps |
| Iron | 54-2 | 3321343 | 3371754 | 3361533 | 3351544 | 0.80 | cps |
| Iron | 56-2 | 60254714 | 61780302 | 59870824 | 60635280 | 1.67 | cps |
| Iron | 57-2 | 1553511 | 1565858 | 1545952 | 1555107 | 0.65 | cps |
| Krypton | 83-1 | 260 | 297 | 250 | 269 | 9.14 | cps |
| Lead | 206-1 | 5298 | 5385 | 5671 | 5451 | 3.59 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5725 | 5064 | 4779 | 5190 | 9.36 | cps |
| Lead | 208-1 | 23053 | 21677 | 21489 | 22073 | 3.87 | cps |
| Lithium | 6-1 | 9772568 | 9906972 | 9891218 | 9856919 | 0.75 | cps |
| Magnesium | 24-2 | 695305 | 702938 | 696060 | 698101 | 0.60 | cps |
| Manganese | 55-2 | 279418 | 283204 | 282781 | 281801 | 0.74 | cps |
| Molybdenum | 94-1 | 24268 | 24592 | 29632 | 26164 | 11.49 | cps |
| Molybdenum | 95-1 | 31566 | 32638 | 32120 | 32108 | 1.67 | cps |
| Molybdenum | 96-1 | 35014 | 35602 | 35151 | 35256 | 0.87 | cps |
| Molybdenum | 97-1 | 19624 | 20051 | 19954 | 19877 | 1.13 | cps |
| Molybdenum | 98-1 | 51897 | 51525 | 50766 | 51396 | 1.12 | cps |
| Neodymium | 150-1 | 4786 | 5980 | 3837 | 4868 | 22.06 | cps |
| Neodymium | 150-2 | 1030 | 900 | 957 | 962 | 6.77 | cps |
| Nickel | 60-2 | 2944 | 2850 | 2884 | 2893 | 1.64 | cps |
| Phosphorus | 31-2 | 153 | 157 | 140 | 150 | 5.88 | cps |
| Potassium | 39-2 | 325521 | 331115 | 327468 | 328035 | 0.87 | cps |
| Rhodium | 103-1 | 15448470 | 16169041 | 15852151 | 15823221 | 2.28 | cps |
| Rhodium | 103-2 | 6484754 | 6457818 | 6478488 | 6473687 | 0.22 | cps |
| Scandium | 45-1 | 12350236 | 12982402 | 12691294 | 12674644 | 2.50 | cps |
| Scandium | 45-2 | 246683 | 249507 | 246453 | 247548 | 0.69 | cps |
| Selenium | 82-1 | 50 | 23 | 67 | 47 | 46.83 | cps |
| Selenium | 77-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Selenium | 78-2 | 27 | 13 | 17 | 19 | 36.75 | cps |
| Silicon | 28-1 | 53483393 | 50996366 | 52052583 | 52177447 | 2.39 | cps |
| Silver | 107-1 | 530 | 647 | 550 | 576 | 10.84 | cps |
| Silver | 109-1 | 360 | 473 | 400 | 411 | 13.98 | cps |
| Sodium | 23-2 | 33459529 | 33826382 | 33692657 | 33659523 | 0.55 | cps |
| Strontium | 86-1 | 485561 | 495284 | 490530 | 490458 | 0.99 | cps |
| Strontium | 88-1 | 4422124 | 4424243 | 4381756 | 4409374 | 0.54 | cps |
| Sulfur | 34-1 | 1038348 | 1027877 | 1014173 | 1026799 | 1.18 | cps |
| Terbium | 159-1 | 20688183 | 21793194 | 21187280 | 21222886 | 2.61 | cps |
| Terbium | 159-2 | 7307436 | 7364737 | 7264625 | 7312266 | 0.69 | cps |
| Thallium | 203-1 | 727 | 783 | 770 | 760 | 3.90 | cps |
| Thallium | 205-1 | 1887 | 1710 | 1803 | 1800 | 4.91 | cps |
| Tin | 118-1 | 5024 | 4854 | 5128 | 5002 | 2.76 | cps |
| Titanium | 47-1 | 15709 | 19587 | 15492 | 16929 | 13.61 | cps |
| Uranium | 238-1 | 22001 | 20453 | 20563 | 21006 | 4.11 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:56:30 | DataFile Name : | 105AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3811 | 3937 | 3570 | 3773 | 4.94 | cps |
| Ytterbium | 172-1 | 840 | 730 | 693 | 754 | 10.12 | cps |
| Ytterbium | 172-2 | 327 | 343 | 307 | 326 | 5.64 | cps |
| Ytterbium | 176-1 | 2334 | 2530 | 3092 | 2652 | 14.83 | cps |
| Ytterbium | 176-2 | 420 | 537 | 557 | 504 | 14.63 | cps |
| Yttrium | 89-1 | 29528988 | 30864485 | 30423100 | 30272191 | 2.25 | cps |
| Yttrium | 89-2 | 2264555 | 2273660 | 2268983 | 2269066 | 0.20 | cps |
| Zinc | 66-2 | 1060 | 1020 | 1060 | 1047 | 2.21 | cps |
| Zirconium | 90-1 | 15052 | 15453 | 18120 | 16208 | 10.29 | cps |
| Zirconium | 91-1 | 3284 | 3367 | 3140 | 3264 | 3.52 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7536 | 7316 | 8270 | 7707 | 6.48 | cps |
| Antimony | 121-1 | 1987 | 1713 | 2004 | 1901 | 8.57 | cps |
| Arsenic | 75-2 | 1407 | 1387 | 1377 | 1390 | 1.10 | cps |
| Barium | 135-1 | 168868 | 168534 | 169553 | 168985 | 0.31 | cps |
| Barium | 137-1 | 296466 | 294421 | 297176 | 296021 | 0.48 | cps |
| Beryllium | 9-1 | 1031 | 990 | 961 | 994 | 3.54 | cps |
| Bismuth | 209-1 | 12658731 | 11914101 | 12506831 | 12359888 | 3.18 | cps |
| Bismuth | 209-2 | 5433937 | 5563027 | 5513157 | 5503373 | 1.18 | cps |
| Bromine | 81-1 | 24064 | 26372 | 28205 | 26214 | 7.92 | cps |
| Cadmium | 108-1 | 47 | 33 | 53 | 44 | 22.92 | cps |
| Cadmium | 106-1 | 9040 | 9040 | 8576 | 8885 | 3.01 | cps |
| Cadmium | 111-1 | 6352 | 6374 | 6003 | 6243 | 3.34 | cps |
| Calcium | 43-1 | 2288936 | 2292708 | 2269981 | 2283875 | 0.53 | cps |
| Calcium | 44-1 | 36660629 | 37309896 | 37101594 | 37024040 | 0.90 | cps |
| Carbon | 12-1 | 13789435 | 14586542 | 15379413 | 14585130 | 5.45 | cps |
| Carbon | 12-2 | 98507 | 101581 | 102860 | 100982 | 2.22 | cps |
| Chlorine | 35-1 | 6319759 | 7085003 | 7281852 | 6895538 | 7.37 | cps |
| Chlorine | 35-2 | 30823 | 31504 | 32223 | 31517 | 2.22 | cps |
| Chromium | 52-2 | 5951 | 6278 | 6311 | 6180 | 3.22 | cps |
| Cobalt | 59-2 | 4234 | 4244 | 3974 | 4151 | 3.69 | cps |
| Copper | 63-2 | 6485 | 6582 | 6538 | 6535 | 0.74 | cps |
| Dysprosium | 156-1 | 3004 | 3120 | 3010 | 3045 | 2.15 | cps |
| Dysprosium | 156-2 | 770 | 760 | 760 | 763 | 0.76 | cps |
| Erbium | 164-1 | 1680 | 1917 | 1833 | 1810 | 6.63 | cps |
| Erbium | 164-2 | 683 | 570 | 623 | 626 | 9.06 | cps |
| Gadolinium | 160-1 | 2170 | 2254 | 2150 | 2191 | 2.50 | cps |
| Gadolinium | 160-2 | 820 | 840 | 817 | 826 | 1.53 | cps |
| Holmium | 165-1 | 21102485 | 20213181 | 20994235 | 20769967 | 2.34 | cps |
| Holmium | 165-2 | 7704231 | 7676912 | 7708904 | 7696682 | 0.22 | cps |
| Indium | 115-1 | 17066122 | 16403147 | 17098365 | 16855878 | 2.33 | cps |
| Indium | 115-2 | 1765268 | 1782245 | 1787340 | 1778285 | 0.65 | cps |
| Iron | 54-2 | 3286241 | 3274118 | 3329140 | 3296500 | 0.88 | cps |
| Iron | 56-2 | 60050126 | 60029167 | 59686176 | 59921823 | 0.34 | cps |
| Iron | 57-2 | 1522535 | 1549930 | 1529305 | 1533923 | 0.93 | cps |
| Krypton | 83-1 | 203 | 293 | 253 | 250 | 18.04 | cps |
| Lead | 206-1 | 4788 | 4758 | 4724 | 4757 | 0.67 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4307 | 3851 | 3991 | 4050 | 5.78 | cps |
| Lead | 208-1 | 19330 | 18292 | 18225 | 18616 | 3.33 | cps |
| Lithium | 6-1 | 9987759 | 10087023 | 10242011 | 10105598 | 1.27 | cps |
| Magnesium | 24-2 | 700867 | 691195 | 697543 | 696535 | 0.71 | cps |
| Manganese | 55-2 | 278744 | 279507 | 277375 | 278542 | 0.39 | cps |
| Molybdenum | 94-1 | 22455 | 23117 | 22919 | 22830 | 1.49 | cps |
| Molybdenum | 95-1 | 31472 | 32050 | 31422 | 31648 | 1.10 | cps |
| Molybdenum | 96-1 | 35088 | 34543 | 35131 | 34921 | 0.94 | cps |
| Molybdenum | 97-1 | 19193 | 19908 | 19297 | 19466 | 1.98 | cps |
| Molybdenum | 98-1 | 49943 | 51344 | 50726 | 50671 | 1.39 | cps |
| Neodymium | 150-1 | 3741 | 3324 | 3370 | 3478 | 6.57 | cps |
| Neodymium | 150-2 | 890 | 967 | 980 | 946 | 5.14 | cps |
| Nickel | 60-2 | 2877 | 2777 | 3054 | 2903 | 4.83 | cps |
| Phosphorus | 31-2 | 123 | 130 | 170 | 141 | 17.88 | cps |
| Potassium | 39-2 | 322100 | 323835 | 326364 | 324100 | 0.66 | cps |
| Rhodium | 103-1 | 16140748 | 15617116 | 16100306 | 15952724 | 1.83 | cps |
| Rhodium | 103-2 | 6517204 | 6434801 | 6443360 | 6465122 | 0.70 | cps |
| Scandium | 45-1 | 12852749 | 12122496 | 12705694 | 12560313 | 3.07 | cps |
| Scandium | 45-2 | 250826 | 251239 | 252366 | 251477 | 0.32 | cps |
| Selenium | 82-1 | 123 | 10 | 93 | 76 | 77.72 | cps |
| Selenium | 77-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Selenium | 78-2 | 17 | 7 | 10 | 11 | 45.82 | cps |
| Silicon | 28-1 | 50249663 | 51946751 | 50713206 | 50969873 | 1.72 | cps |
| Silver | 107-1 | 440 | 427 | 477 | 448 | 5.78 | cps |
| Silver | 109-1 | 267 | 253 | 253 | 258 | 2.99 | cps |
| Sodium | 23-2 | 33719116 | 33650787 | 33828352 | 33732752 | 0.27 | cps |
| Strontium | 86-1 | 485978 | 482557 | 484880 | 484472 | 0.36 | cps |
| Strontium | 88-1 | 4390150 | 4399595 | 4369942 | 4386562 | 0.35 | cps |
| Sulfur | 34-1 | 1038051 | 1040172 | 1017431 | 1031885 | 1.22 | cps |
| Terbium | 159-1 | 21356891 | 20612118 | 21216962 | 21061990 | 1.88 | cps |
| Terbium | 159-2 | 7282472 | 7359682 | 7288093 | 7310082 | 0.59 | cps |
| Thallium | 203-1 | 577 | 557 | 580 | 571 | 2.21 | cps |
| Thallium | 205-1 | 1373 | 1353 | 1313 | 1347 | 2.27 | cps |
| Tin | 118-1 | 4704 | 5384 | 5104 | 5064 | 6.75 | cps |
| Titanium | 47-1 | 4974 | 13843 | 9061 | 9293 | 47.77 | cps |
| Uranium | 238-1 | 20346 | 19966 | 20530 | 20281 | 1.42 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 17:59:44 | DataFile Name : | 106AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3357 | 3244 | 3340 | 3314 | 1.85 | cps |
| Ytterbium | 172-1 | 680 | 680 | 800 | 720 | 9.62 | cps |
| Ytterbium | 172-2 | 333 | 353 | 307 | 331 | 7.07 | cps |
| Ytterbium | 176-1 | 2380 | 2327 | 2324 | 2344 | 1.36 | cps |
| Ytterbium | 176-2 | 457 | 567 | 533 | 519 | 10.87 | cps |
| Yttrium | 89-1 | 31231075 | 30199485 | 30757517 | 30729359 | 1.68 | cps |
| Yttrium | 89-2 | 2278871 | 2266869 | 2272079 | 2272606 | 0.26 | cps |
| Zinc | 66-2 | 1417 | 1330 | 1157 | 1301 | 10.18 | cps |
| Zirconium | 90-1 | 12129 | 12612 | 12166 | 12302 | 2.19 | cps |
| Zirconium | 91-1 | 2640 | 2934 | 2734 | 2769 | 5.41 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2034 | 1507 | 1470 | 1670 | 18.90 | cps |
| Antimony | 121-1 | 833 | 1003 | 953 | 930 | 9.39 | cps |
| Arsenic | 75-2 | 273 | 237 | 290 | 267 | 10.23 | cps |
| Barium | 135-1 | 32900 | 33548 | 34080 | 33509 | 1.76 | cps |
| Barium | 137-1 | 58503 | 58181 | 58348 | 58344 | 0.28 | cps |
| Beryllium | 9-1 | 869 | 760 | 799 | 809 | 6.81 | cps |
| Bismuth | 209-1 | 12678198 | 12315235 | 12552331 | 12515254 | 1.47 | cps |
| Bismuth | 209-2 | 5509333 | 5701795 | 5626596 | 5612575 | 1.73 | cps |
| Bromine | 81-1 | 12025 | 12145 | 11722 | 11964 | 1.83 | cps |
| Cadmium | 108-1 | 20 | 33 | 30 | 28 | 24.98 | cps |
| Cadmium | 106-1 | 9300 | 8750 | 8646 | 8899 | 3.95 | cps |
| Cadmium | 111-1 | 6543 | 6115 | 6068 | 6242 | 4.19 | cps |
| Calcium | 43-1 | 439959 | 435645 | 435498 | 437034 | 0.58 | cps |
| Calcium | 44-1 | 7203675 | 7341782 | 7250317 | 7265258 | 0.97 | cps |
| Carbon | 12-1 | 7668732 | 7578762 | 7781927 | 7676474 | 1.33 | cps |
| Carbon | 12-2 | 47393 | 48266 | 47751 | 47803 | 0.92 | cps |
| Chlorine | 35-1 | 2040037 | 2049740 | 2083590 | 2057789 | 1.11 | cps |
| Chlorine | 35-2 | 8259 | 8726 | 8486 | 8490 | 2.75 | cps |
| Chromium | 52-2 | 2947 | 2857 | 2927 | 2910 | 1.62 | cps |
| Cobalt | 59-2 | 893 | 913 | 920 | 909 | 1.53 | cps |
| Copper | 63-2 | 4401 | 4464 | 4617 | 4494 | 2.48 | cps |
| Dysprosium | 156-1 | 617 | 597 | 603 | 606 | 1.68 | cps |
| Dysprosium | 156-2 | 153 | 197 | 133 | 161 | 20.09 | cps |
| Erbium | 164-1 | 417 | 370 | 450 | 412 | 9.75 | cps |
| Erbium | 164-2 | 130 | 140 | 150 | 140 | 7.14 | cps |
| Gadolinium | 160-1 | 480 | 447 | 440 | 456 | 4.70 | cps |
| Gadolinium | 160-2 | 197 | 207 | 203 | 202 | 2.52 | cps |
| Holmium | 165-1 | 20361010 | 20127007 | 19980630 | 20156216 | 0.95 | cps |
| Holmium | 165-2 | 7692021 | 7815522 | 7640134 | 7715893 | 1.17 | cps |
| Indium | 115-1 | 17323329 | 16769724 | 17038151 | 17043735 | 1.62 | cps |
| Indium | 115-2 | 1791133 | 1871738 | 1814071 | 1825647 | 2.27 | cps |
| Iron | 54-2 | 641262 | 639943 | 640728 | 640644 | 0.10 | cps |
| Iron | 56-2 | 11771785 | 12150382 | 12021316 | 11981161 | 1.61 | cps |
| Iron | 57-2 | 293807 | 295034 | 293810 | 294217 | 0.24 | cps |
| Krypton | 83-1 | 320 | 230 | 227 | 259 | 20.45 | cps |
| Lead | 206-1 | 2667 | 2660 | 2440 | 2589 | 4.98 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2327 | 2130 | 2137 | 2198 | 5.08 | cps |
| Lead | 208-1 | 10408 | 10322 | 9845 | 10192 | 2.98 | cps |
| Lithium | 6-1 | 10294147 | 10253947 | 9745087 | 10097727 | 3.03 | cps |
| Magnesium | 24-2 | 141095 | 142246 | 142074 | 141805 | 0.44 | cps |
| Manganese | 55-2 | 55979 | 55193 | 56251 | 55807 | 0.98 | cps |
| Molybdenum | 94-1 | 4891 | 5188 | 4871 | 4983 | 3.56 | cps |
| Molybdenum | 95-1 | 6538 | 6181 | 6435 | 6385 | 2.88 | cps |
| Molybdenum | 96-1 | 7142 | 6838 | 7002 | 6994 | 2.17 | cps |
| Molybdenum | 97-1 | 3914 | 4057 | 4151 | 4041 | 2.95 | cps |
| Molybdenum | 98-1 | 10204 | 10244 | 10477 | 10308 | 1.43 | cps |
| Neodymium | 150-1 | 580 | 683 | 677 | 647 | 8.94 | cps |
| Neodymium | 150-2 | 193 | 157 | 170 | 173 | 10.71 | cps |
| Nickel | 60-2 | 1793 | 1890 | 1793 | 1826 | 3.06 | cps |
| Phosphorus | 31-2 | 120 | 77 | 103 | 100 | 21.86 | cps |
| Potassium | 39-2 | 79832 | 79484 | 80147 | 79821 | 0.42 | cps |
| Rhodium | 103-1 | 16336001 | 16020467 | 15998813 | 16118427 | 1.17 | cps |
| Rhodium | 103-2 | 6642594 | 6710278 | 6710751 | 6687874 | 0.59 | cps |
| Scandium | 45-1 | 12884482 | 12674593 | 12409730 | 12656268 | 1.88 | cps |
| Scandium | 45-2 | 255028 | 256484 | 251036 | 254183 | 1.11 | cps |
| Selenium | 82-1 | -67 | 70 | 120 | 41 | 235.04 | cps |
| Selenium | 77-2 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Selenium | 78-2 | 17 | 10 | 13 | 13 | 25.01 | cps |
| Silicon | 28-1 | 10357386 | 10390958 | 10355459 | 10367935 | 0.19 | cps |
| Silver | 107-1 | 367 | 317 | 327 | 337 | 7.86 | cps |
| Silver | 109-1 | 170 | 240 | 200 | 203 | 17.27 | cps |
| Sodium | 23-2 | 6636453 | 6766172 | 6624045 | 6675557 | 1.18 | cps |
| Strontium | 86-1 | 94741 | 95016 | 96131 | 95296 | 0.77 | cps |
| Strontium | 88-1 | 824411 | 829158 | 835182 | 829584 | 0.65 | cps |
| Sulfur | 34-1 | 951051 | 951360 | 926871 | 943094 | 1.49 | cps |
| Terbium | 159-1 | 21371542 | 20916724 | 20746570 | 21011612 | 1.54 | cps |
| Terbium | 159-2 | 7295283 | 7357766 | 7354554 | 7335868 | 0.48 | cps |
| Thallium | 203-1 | 393 | 463 | 457 | 438 | 8.83 | cps |
| Thallium | 205-1 | 953 | 963 | 940 | 952 | 1.23 | cps |
| Tin | 118-1 | 2517 | 2530 | 2684 | 2577 | 3.59 | cps |
| Titanium | 47-1 | 1190 | 4881 | 1240 | 2437 | 86.86 | cps |
| Uranium | 238-1 | 3887 | 3841 | 3951 | 3893 | 1.42 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:02:55 | DataFile Name : | 107AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 670 | 617 | 660 | 649 | 4.37 | cps |
| Ytterbium | 172-1 | 230 | 227 | 250 | 236 | 5.36 | cps |
| Ytterbium | 172-2 | 87 | 103 | 103 | 98 | 9.84 | cps |
| Ytterbium | 176-1 | 1907 | 2044 | 1930 | 1960 | 3.73 | cps |
| Ytterbium | 176-2 | 280 | 333 | 330 | 314 | 9.50 | cps |
| Yttrium | 89-1 | 30943825 | 30041316 | 30731429 | 30572190 | 1.54 | cps |
| Yttrium | 89-2 | 2331873 | 2296466 | 2338997 | 2322445 | 0.98 | cps |
| Zinc | 66-2 | 447 | 450 | 377 | 424 | 9.76 | cps |
| Zirconium | 90-1 | 3310 | 3204 | 3194 | 3236 | 2.00 | cps |
| Zirconium | 91-1 | 643 | 700 | 593 | 646 | 8.27 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 747552 | 741632 | 736353 | 741845 | 0.76 | cps |
| Antimony | 121-1 | 9054385 | 9011684 | 8793767 | 8953279 | 1.56 | cps |
| Arsenic | 75-2 | 1440 | 1340 | 1500 | 1427 | 5.67 | cps |
| Barium | 135-1 | 9722377 | 9559816 | 9618132 | 9633442 | 0.85 | cps |
| Barium | 137-1 | 16767882 | 16691503 | 16458847 | 16639411 | 0.97 | cps |
| Beryllium | 9-1 | 3380779 | 3408674 | 3348336 | 3379263 | 0.89 | cps |
| Bismuth | 209-1 | 11321665 | 12040418 | 12046751 | 11802945 | 3.53 | cps |
| Bismuth | 209-2 | 5216579 | 5282711 | 5283105 | 5260798 | 0.73 | cps |
| Bromine | 81-1 | 25233 | 27704 | 29254 | 27397 | 7.40 | cps |
| Cadmium | 108-1 | 162546 | 161134 | 162580 | 162087 | 0.51 | cps |
| Cadmium | 106-1 | 256598 | 250171 | 254343 | 253704 | 1.29 | cps |
| Cadmium | 111-1 | 2220223 | 2171476 | 2226475 | 2206058 | 1.36 | cps |
| Calcium | 43-1 | 5270242 | 5177729 | 5136383 | 5194785 | 1.32 | cps |
| Calcium | 44-1 | 86398189 | 84414475 | 82416417 | 84409694 | 2.36 | cps |
| Carbon | 12-1 | 11326400 | 12152152 | 12763821 | 12080791 | 5.97 | cps |
| Carbon | 12-2 | 84709 | 85949 | 86881 | 85846 | 1.27 | cps |
| Chlorine | 35-1 | 83682244 | 87252409 | 89003549 | 86646067 | 3.13 | cps |
| Chlorine | 35-2 | 381965 | 387762 | 382712 | 384146 | 0.82 | cps |
| Chromium | 52-2 | 2124934 | 2124172 | 2068692 | 2105933 | 1.53 | cps |
| Cobalt | 59-2 | 3992819 | 4012575 | 4017828 | 4007740 | 0.33 | cps |
| Copper | 63-2 | 30219140 | 29903585 | 29571104 | 29897943 | 1.08 | cps |
| Dysprosium | 156-1 | 3601 | 3200 | 3057 | 3286 | 8.57 | cps |
| Dysprosium | 156-2 | 777 | 830 | 767 | 791 | 4.30 | cps |
| Erbium | 164-1 | 1853 | 1827 | 1910 | 1863 | 2.28 | cps |
| Erbium | 164-2 | 690 | 647 | 770 | 702 | 8.91 | cps |
| Gadolinium | 160-1 | 2310 | 2204 | 1980 | 2165 | 7.78 | cps |
| Gadolinium | 160-2 | 983 | 1715 | 973 | 1224 | 34.76 | cps |
| Holmium | 165-1 | 19389040 | 20732335 | 20072698 | 20064691 | 3.35 | cps |
| Holmium | 165-2 | 7410532 | 7657701 | 7477473 | 7515235 | 1.70 | cps |
| Indium | 115-1 | 15650361 | 16863696 | 16427052 | 16313703 | 3.77 | cps |
| Indium | 115-2 | 1707243 | 1722109 | 1666883 | 1698745 | 1.68 | cps |
| Iron | 54-2 | 6897737 | 6884219 | 6809197 | 6863718 | 0.69 | cps |
| Iron | 56-2 | 125694048 | 125997255 | 124816678 | 125502660 | 0.49 | cps |
| Iron | 57-2 | 3209583 | 3211917 | 3163076 | 3194859 | 0.86 | cps |
| Krypton | 83-1 | 313 | 317 | 367 | 332 | 8.99 | cps |
| Lead | 206-1 | 32739858 | 32582576 | 32716156 | 32679530 | 0.26 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 28272566 | 28154281 | 27908275 | 28111708 | 0.66 | cps |
| Lead | 208-1 | 129406416 | 129312785 | 129225909 | 129315037 | 0.07 | cps |
| Lithium | 6-1 | 9374678 | 9771702 | 9874075 | 9673485 | 2.73 | cps |
| Magnesium | 24-2 | 14641828 | 14203164 | 14263917 | 14369636 | 1.65 | cps |
| Manganese | 55-2 | 8684909 | 8625791 | 8580006 | 8630235 | 0.61 | cps |
| Molybdenum | 94-1 | 15409664 | 15265024 | 15176383 | 15283690 | 0.77 | cps |
| Molybdenum | 95-1 | 16657950 | 16453698 | 16365395 | 16492347 | 0.91 | cps |
| Molybdenum | 96-1 | 18697601 | 18473428 | 18646130 | 18605720 | 0.63 | cps |
| Molybdenum | 97-1 | 10100139 | 10188517 | 10054422 | 10114359 | 0.67 | cps |
| Molybdenum | 98-1 | 26765685 | 26720789 | 26649305 | 26711926 | 0.22 | cps |
| Neodymium | 150-1 | 8007 | 4017 | 3904 | 5309 | 44.01 | cps |
| Neodymium | 150-2 | 940 | 1137 | 1000 | 1026 | 9.83 | cps |
| Nickel | 60-2 | 1044339 | 1046852 | 1037208 | 1042799 | 0.48 | cps |
| Phosphorus | 31-2 | 187 | 137 | 140 | 154 | 18.10 | cps |
| Potassium | 39-2 | 4099177 | 4037349 | 3975290 | 4037272 | 1.53 | cps |
| Rhodium | 103-1 | 14687632 | 15555404 | 15234134 | 15159057 | 2.89 | cps |
| Rhodium | 103-2 | 6254645 | 6229388 | 6139599 | 6207877 | 0.97 | cps |
| Scandium | 45-1 | 12027101 | 12699084 | 12135885 | 12287357 | 2.94 | cps |
| Scandium | 45-2 | 247539 | 249352 | 249876 | 248923 | 0.49 | cps |
| Selenium | 82-1 | 135524 | 132112 | 133589 | 133742 | 1.28 | cps |
| Selenium | 77-2 | 2360 | 2564 | 2364 | 2429 | 4.79 | cps |
| Selenium | 78-2 | 8456 | 8129 | 8146 | 8244 | 2.23 | cps |
| Silicon | 28-1 | 49315929 | 50725704 | 50546021 | 50195885 | 1.53 | cps |
| Silver | 107-1 | 1951759 | 1923861 | 1936983 | 1937534 | 0.72 | cps |
| Silver | 109-1 | 1847541 | 1805575 | 1801691 | 1818269 | 1.40 | cps |
| Sodium | 23-2 | 59283264 | 58256114 | 58626339 | 58721906 | 0.89 | cps |
| Strontium | 86-1 | 4045521 | 4026755 | 4029844 | 4034040 | 0.25 | cps |
| Strontium | 88-1 | 34206203 | 34850178 | 34173113 | 34409831 | 1.11 | cps |
| Sulfur | 34-1 | 1014463 | 1010401 | 983672 | 1002845 | 1.67 | cps |
| Terbium | 159-1 | 20336849 | 20850360 | 20949020 | 20712076 | 1.59 | cps |
| Terbium | 159-2 | 7220920 | 7240720 | 7144002 | 7201881 | 0.71 | cps |
| Thallium | 203-1 | 8045105 | 7918623 | 8061465 | 8008398 | 0.98 | cps |
| Thallium | 205-1 | 18953566 | 18814763 | 19071204 | 18946511 | 0.68 | cps |
| Tin | 118-1 | 6371944 | 6346920 | 6377942 | 6365602 | 0.26 | cps |
| Titanium | 47-1 | 18033 | 31121 | 17950 | 22368 | 33.89 | cps |
| Uranium | 238-1 | 25180491 | 25341510 | 25312335 | 25278112 | 0.34 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:06:12 | DataFile Name : | 108AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1715288 | 1689270 | 1685977 | 1696845 | 0.95 | cps |
| Ytterbium | 172-1 | 997 | 1053 | 1003 | 1018 | 3.04 | cps |
| Ytterbium | 172-2 | 500 | 503 | 403 | 469 | 12.11 | cps |
| Ytterbium | 176-1 | 39569 | 39626 | 40502 | 39899 | 1.31 | cps |
| Ytterbium | 176-2 | 14358 | 14481 | 14668 | 14502 | 1.08 | cps |
| Yttrium | 89-1 | 28500819 | 30718156 | 30143680 | 29787552 | 3.86 | cps |
| Yttrium | 89-2 | 2212135 | 2264089 | 2192925 | 2223050 | 1.66 | cps |
| Zinc | 66-2 | 3232257 | 3253231 | 3212938 | 3232809 | 0.62 | cps |
| Zirconium | 90-1 | 16005739 | 15578077 | 15699876 | 15761230 | 1.40 | cps |
| Zirconium | 91-1 | 3541244 | 3484904 | 3505003 | 3510384 | 0.81 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 711659 | 721831 | 719511 | 717667 | 0.74 | cps |
| Antimony | 121-1 | 8594988 | 8665678 | 8662515 | 8641061 | 0.46 | cps |
| Arsenic | 75-2 | 1370 | 1417 | 1350 | 1379 | 2.48 | cps |
| Barium | 135-1 | 9170767 | 9396843 | 9317642 | 9295084 | 1.23 | cps |
| Barium | 137-1 | 15827225 | 16037944 | 16157202 | 16007457 | 1.04 | cps |
| Beryllium | 9-1 | 3273924 | 3261485 | 3297409 | 3277606 | 0.56 | cps |
| Bismuth | 209-1 | 11987159 | 12096863 | 12012782 | 12032268 | 0.48 | cps |
| Bismuth | 209-2 | 5246068 | 5301141 | 5232920 | 5260043 | 0.69 | cps |
| Bromine | 81-1 | 24966 | 27043 | 28025 | 26678 | 5.85 | cps |
| Cadmium | 108-1 | 155645 | 159140 | 157263 | 157349 | 1.11 | cps |
| Cadmium | 106-1 | 242763 | 248194 | 244734 | 245230 | 1.12 | cps |
| Cadmium | 111-1 | 2068124 | 2082196 | 2129226 | 2093182 | 1.53 | cps |
| Calcium | 43-1 | 4991182 | 4961723 | 5032780 | 4995228 | 0.71 | cps |
| Calcium | 44-1 | 81212732 | 79840410 | 81390110 | 80814418 | 1.05 | cps |
| Carbon | 12-1 | 11244392 | 12319761 | 12559433 | 12041195 | 5.82 | cps |
| Carbon | 12-2 | 84923 | 86070 | 87290 | 86094 | 1.38 | cps |
| Chlorine | 35-1 | 80200552 | 84711084 | 87488952 | 84133529 | 4.37 | cps |
| Chlorine | 35-2 | 371017 | 380289 | 379740 | 377016 | 1.38 | cps |
| Chromium | 52-2 | 2003468 | 2011897 | 2016510 | 2010625 | 0.33 | cps |
| Cobalt | 59-2 | 3903488 | 3840073 | 3861283 | 3868281 | 0.83 | cps |
| Copper | 63-2 | 29005895 | 28917175 | 28543843 | 28822304 | 0.85 | cps |
| Dysprosium | 156-1 | 3160 | 3407 | 3120 | 3229 | 4.81 | cps |
| Dysprosium | 156-2 | 783 | 803 | 797 | 794 | 1.28 | cps |
| Erbium | 164-1 | 1977 | 2010 | 1860 | 1949 | 4.04 | cps |
| Erbium | 164-2 | 610 | 677 | 670 | 652 | 5.63 | cps |
| Gadolinium | 160-1 | 2197 | 2104 | 2264 | 2188 | 3.68 | cps |
| Gadolinium | 160-2 | 1013 | 893 | 863 | 923 | 8.60 | cps |
| Holmium | 165-1 | 20711435 | 20214117 | 20057877 | 20327810 | 1.68 | cps |
| Holmium | 165-2 | 7515322 | 7413044 | 7490514 | 7472960 | 0.71 | cps |
| Indium | 115-1 | 16561494 | 16350087 | 16480978 | 16464186 | 0.65 | cps |
| Indium | 115-2 | 1663086 | 1683425 | 1702157 | 1682889 | 1.16 | cps |
| Iron | 54-2 | 6755759 | 6743462 | 6678613 | 6725945 | 0.62 | cps |
| Iron | 56-2 | 122903858 | 121104632 | 123031292 | 122346594 | 0.88 | cps |
| Iron | 57-2 | 3196935 | 3111886 | 3134399 | 3147740 | 1.40 | cps |
| Krypton | 83-1 | 250 | 310 | 327 | 296 | 13.64 | cps |
| Lead | 206-1 | 31751249 | 31575510 | 31422239 | 31582999 | 0.52 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27431808 | 27579465 | 27090140 | 27367137 | 0.92 | cps |
| Lead | 208-1 | 126176694 | 126947634 | 125257699 | 126127342 | 0.67 | cps |
| Lithium | 6-1 | 9702216 | 9575345 | 9752348 | 9676636 | 0.94 | cps |
| Magnesium | 24-2 | 13844332 | 14060580 | 14183780 | 14029564 | 1.22 | cps |
| Manganese | 55-2 | 8346784 | 8404861 | 8479068 | 8410238 | 0.79 | cps |
| Molybdenum | 94-1 | 14503727 | 14570144 | 14548469 | 14540780 | 0.23 | cps |
| Molybdenum | 95-1 | 15553246 | 15527727 | 15646751 | 15575908 | 0.40 | cps |
| Molybdenum | 96-1 | 17650953 | 17774703 | 17975041 | 17800232 | 0.92 | cps |
| Molybdenum | 97-1 | 9702193 | 9668031 | 9816330 | 9728851 | 0.80 | cps |
| Molybdenum | 98-1 | 25477453 | 25675118 | 25633192 | 25595254 | 0.41 | cps |
| Neodymium | 150-1 | 3984 | 3964 | 4084 | 4011 | 1.60 | cps |
| Neodymium | 150-2 | 983 | 947 | 1351 | 1094 | 20.44 | cps |
| Nickel | 60-2 | 1007877 | 1008710 | 1006921 | 1007836 | 0.09 | cps |
| Phosphorus | 31-2 | 233 | 327 | 243 | 268 | 19.14 | cps |
| Potassium | 39-2 | 3848117 | 3926919 | 3803579 | 3859538 | 1.62 | cps |
| Rhodium | 103-1 | 15468839 | 15253686 | 15109822 | 15277449 | 1.18 | cps |
| Rhodium | 103-2 | 6151623 | 6193367 | 6133928 | 6159640 | 0.50 | cps |
| Scandium | 45-1 | 12519986 | 12095128 | 12237468 | 12284194 | 1.76 | cps |
| Scandium | 45-2 | 244593 | 246043 | 243774 | 244803 | 0.47 | cps |
| Selenium | 82-1 | 128945 | 130018 | 129929 | 129631 | 0.46 | cps |
| Selenium | 77-2 | 2387 | 2447 | 2277 | 2370 | 3.64 | cps |
| Selenium | 78-2 | 7826 | 8139 | 7806 | 7923 | 2.36 | cps |
| Silicon | 28-1 | 47340696 | 50287129 | 47544458 | 48390761 | 3.40 | cps |
| Silver | 107-1 | 1867944 | 1878296 | 1853554 | 1866598 | 0.67 | cps |
| Silver | 109-1 | 1712618 | 1726823 | 1704888 | 1714776 | 0.65 | cps |
| Sodium | 23-2 | 57590321 | 58628762 | 57963759 | 58060947 | 0.91 | cps |
| Strontium | 86-1 | 3873515 | 3905286 | 3894325 | 3891042 | 0.41 | cps |
| Strontium | 88-1 | 33128081 | 33413540 | 33040720 | 33194114 | 0.59 | cps |
| Sulfur | 34-1 | 985020 | 979459 | 960860 | 975113 | 1.30 | cps |
| Terbium | 159-1 | 20772736 | 20918103 | 20913026 | 20867955 | 0.40 | cps |
| Terbium | 159-2 | 7111301 | 7191083 | 7296232 | 7199539 | 1.29 | cps |
| Thallium | 203-1 | 7612514 | 7858206 | 7700276 | 7723665 | 1.61 | cps |
| Thallium | 205-1 | 18215895 | 18645164 | 18395532 | 18418864 | 1.17 | cps |
| Tin | 118-1 | 6180488 | 6171756 | 6184232 | 6178825 | 0.10 | cps |
| Titanium | 47-1 | 13945 | 29740 | 28285 | 23990 | 36.39 | cps |
| Uranium | 238-1 | 24577916 | 24867512 | 24703092 | 24716174 | 0.59 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:08:54 | DataFile Name : | 109AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1677221 | 1646800 | 1631660 | 1651894 | 1.40 | cps |
| Ytterbium | 172-1 | 1040 | 933 | 937 | 970 | 6.25 | cps |
| Ytterbium | 172-2 | 480 | 437 | 513 | 477 | 8.06 | cps |
| Ytterbium | 176-1 | 38118 | 38777 | 38790 | 38562 | 1.00 | cps |
| Ytterbium | 176-2 | 13724 | 13764 | 14304 | 13931 | 2.33 | cps |
| Yttrium | 89-1 | 30082084 | 29971693 | 29858653 | 29970810 | 0.37 | cps |
| Yttrium | 89-2 | 2206775 | 2215465 | 2196138 | 2206126 | 0.44 | cps |
| Zinc | 66-2 | 3191274 | 3113086 | 3083022 | 3129127 | 1.79 | cps |
| Zirconium | 90-1 | 14939318 | 15123978 | 15182031 | 15081776 | 0.84 | cps |
| Zirconium | 91-1 | 3284683 | 3374760 | 3366374 | 3341939 | 1.49 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 704826 | 715592 | 715377 | 711932 | 0.86 | cps |
| Antimony | 121-1 | 8880912 | 8995122 | 8923632 | 8933222 | 0.65 | cps |
| Arsenic | 75-2 | 1483 | 1393 | 1327 | 1401 | 5.61 | cps |
| Barium | 135-1 | 9231109 | 9315813 | 9207320 | 9251414 | 0.62 | cps |
| Barium | 137-1 | 16045884 | 15922202 | 16030110 | 15999398 | 0.42 | cps |
| Beryllium | 9-1 | 3238638 | 3237153 | 3264618 | 3246803 | 0.48 | cps |
| Bismuth | 209-1 | 12111091 | 11729346 | 12093775 | 11978071 | 1.80 | cps |
| Bismuth | 209-2 | 5281509 | 5227854 | 5242993 | 5250785 | 0.53 | cps |
| Bromine | 81-1 | 24842 | 26829 | 28205 | 26625 | 6.35 | cps |
| Cadmium | 108-1 | 156329 | 157930 | 158042 | 157434 | 0.61 | cps |
| Cadmium | 106-1 | 244030 | 245622 | 246346 | 245333 | 0.48 | cps |
| Cadmium | 111-1 | 2079626 | 2130539 | 2105097 | 2105087 | 1.21 | cps |
| Calcium | 43-1 | 4999340 | 4960913 | 4987844 | 4982699 | 0.40 | cps |
| Calcium | 44-1 | 80326660 | 80154335 | 79451902 | 79977633 | 0.58 | cps |
| Carbon | 12-1 | 11487335 | 12357680 | 12905593 | 12250202 | 5.84 | cps |
| Carbon | 12-2 | 85376 | 87495 | 88098 | 86990 | 1.64 | cps |
| Chlorine | 35-1 | 81465049 | 86483122 | 87584529 | 85177567 | 3.83 | cps |
| Chlorine | 35-2 | 372828 | 376201 | 380315 | 376448 | 1.00 | cps |
| Chromium | 52-2 | 2053167 | 2019599 | 2024790 | 2032519 | 0.89 | cps |
| Cobalt | 59-2 | 3868650 | 3839991 | 3878330 | 3862324 | 0.52 | cps |
| Copper | 63-2 | 28555084 | 28711900 | 28493105 | 28586696 | 0.39 | cps |
| Dysprosium | 156-1 | 3374 | 3634 | 3174 | 3394 | 6.80 | cps |
| Dysprosium | 156-2 | 1037 | 873 | 897 | 936 | 9.45 | cps |
| Erbium | 164-1 | 1964 | 1750 | 2010 | 1908 | 7.27 | cps |
| Erbium | 164-2 | 590 | 817 | 600 | 669 | 19.15 | cps |
| Gadolinium | 160-1 | 2244 | 2284 | 2334 | 2287 | 1.97 | cps |
| Gadolinium | 160-2 | 1007 | 983 | 973 | 988 | 1.73 | cps |
| Holmium | 165-1 | 20307105 | 20296673 | 19971961 | 20191913 | 0.94 | cps |
| Holmium | 165-2 | 7511941 | 7311691 | 7346768 | 7390134 | 1.45 | cps |
| Indium | 115-1 | 16026168 | 16030813 | 16215887 | 16090956 | 0.67 | cps |
| Indium | 115-2 | 1689184 | 1637344 | 1686446 | 1670991 | 1.75 | cps |
| Iron | 54-2 | 6654683 | 6706663 | 6701925 | 6687757 | 0.43 | cps |
| Iron | 56-2 | 123005635 | 121426528 | 121670625 | 122034263 | 0.70 | cps |
| Iron | 57-2 | 3118339 | 3084641 | 3119369 | 3107450 | 0.64 | cps |
| Krypton | 83-1 | 323 | 337 | 367 | 342 | 6.49 | cps |
| Lead | 206-1 | 31579561 | 31951848 | 32168309 | 31899906 | 0.93 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27175280 | 27445151 | 27687227 | 27435886 | 0.93 | cps |
| Lead | 208-1 | 125475641 | 125641393 | 127380075 | 126165703 | 0.84 | cps |
| Lithium | 6-1 | 9764754 | 9728654 | 9626719 | 9706709 | 0.74 | cps |
| Magnesium | 24-2 | 13794833 | 14103656 | 13785568 | 13894686 | 1.30 | cps |
| Manganese | 55-2 | 8252656 | 8269149 | 8355442 | 8292416 | 0.67 | cps |
| Molybdenum | 94-1 | 14512446 | 14699175 | 14593937 | 14601853 | 0.64 | cps |
| Molybdenum | 95-1 | 15807179 | 15985191 | 15646244 | 15812872 | 1.07 | cps |
| Molybdenum | 96-1 | 17736096 | 17919326 | 17870620 | 17842014 | 0.53 | cps |
| Molybdenum | 97-1 | 9636908 | 9417068 | 9894844 | 9649607 | 2.48 | cps |
| Molybdenum | 98-1 | 25373640 | 25235734 | 25871513 | 25493629 | 1.31 | cps |
| Neodymium | 150-1 | 3927 | 4321 | 4074 | 4107 | 4.84 | cps |
| Neodymium | 150-2 | 787 | 1073 | 950 | 937 | 15.35 | cps |
| Nickel | 60-2 | 999675 | 999781 | 1002261 | 1000572 | 0.15 | cps |
| Phosphorus | 31-2 | 823 | 793 | 907 | 841 | 6.98 | cps |
| Potassium | 39-2 | 3750598 | 3815236 | 3871676 | 3812503 | 1.59 | cps |
| Rhodium | 103-1 | 15075203 | 14782035 | 15155268 | 15004169 | 1.31 | cps |
| Rhodium | 103-2 | 6262679 | 6074594 | 6105538 | 6147604 | 1.64 | cps |
| Scandium | 45-1 | 12052280 | 12002541 | 12075774 | 12043531 | 0.31 | cps |
| Scandium | 45-2 | 245316 | 241027 | 242115 | 242819 | 0.92 | cps |
| Selenium | 82-1 | 127591 | 130221 | 129538 | 129117 | 1.06 | cps |
| Selenium | 77-2 | 2137 | 2437 | 2304 | 2292 | 6.56 | cps |
| Selenium | 78-2 | 7756 | 7899 | 7972 | 7876 | 1.40 | cps |
| Silicon | 28-1 | 50381676 | 52641501 | 49407098 | 50810091 | 3.27 | cps |
| Silver | 107-1 | 1861238 | 1900547 | 1846231 | 1869338 | 1.50 | cps |
| Silver | 109-1 | 1713825 | 1734620 | 1735131 | 1727859 | 0.70 | cps |
| Sodium | 23-2 | 56589781 | 57785512 | 57283646 | 57219646 | 1.05 | cps |
| Strontium | 86-1 | 3855380 | 3886303 | 3896501 | 3879395 | 0.55 | cps |
| Strontium | 88-1 | 33208481 | 33619562 | 33495391 | 33441145 | 0.63 | cps |
| Sulfur | 34-1 | 979671 | 957003 | 959856 | 965510 | 1.28 | cps |
| Terbium | 159-1 | 20977252 | 21145212 | 20738882 | 20953782 | 0.97 | cps |
| Terbium | 159-2 | 7113746 | 7107943 | 7171831 | 7131173 | 0.50 | cps |
| Thallium | 203-1 | 7693122 | 7887858 | 7709286 | 7763422 | 1.39 | cps |
| Thallium | 205-1 | 18388431 | 18716988 | 18655144 | 18586854 | 0.94 | cps |
| Tin | 118-1 | 6099756 | 6161889 | 6150087 | 6137244 | 0.54 | cps |
| Titanium | 47-1 | 18310 | 28198 | 52541 | 33016 | 53.36 | cps |
| Uranium | 238-1 | 25000515 | 24841831 | 25016755 | 24953034 | 0.39 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1193-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW01-012425- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:11:39 | DataFile Name : | 110AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1634156 | 1624462 | 1651969 | 1636863 | 0.85 | cps |
| Ytterbium | 172-1 | 1113 | 1023 | 1037 | 1058 | 4.59 | cps |
| Ytterbium | 172-2 | 941 | 430 | 493 | 621 | 44.82 | cps |
| Ytterbium | 176-1 | 38085 | 38135 | 38275 | 38165 | 0.26 | cps |
| Ytterbium | 176-2 | 13894 | 14468 | 14321 | 14228 | 2.10 | cps |
| Yttrium | 89-1 | 30010702 | 29829969 | 29991331 | 29944001 | 0.33 | cps |
| Yttrium | 89-2 | 2264005 | 2160448 | 2141072 | 2188509 | 3.02 | cps |
| Zinc | 66-2 | 3109240 | 3121641 | 3087713 | 3106198 | 0.55 | cps |
| Zirconium | 90-1 | 15075734 | 15469931 | 15019193 | 15188286 | 1.62 | cps |
| Zirconium | 91-1 | 3339537 | 3436787 | 3373887 | 3383404 | 1.46 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3834868 | 3881918 | 3806823 | 3841203 | 0.99 | cps |
| Antimony | 121-1 | 8321343 | 8401719 | 8437561 | 8386874 | 0.71 | cps |
| Arsenic | 75-2 | 180720 | 179232 | 176513 | 178822 | 1.19 | cps |
| Barium | 135-1 | 9952057 | 9883110 | 10038159 | 9957775 | 0.78 | cps |
| Barium | 137-1 | 17204684 | 17395224 | 17467642 | 17355850 | 0.78 | cps |
| Beryllium | 9-1 | 3129208 | 3121700 | 3147262 | 3132723 | 0.42 | cps |
| Bismuth | 209-1 | 10863676 | 10978579 | 11007407 | 10949887 | 0.69 | cps |
| Bismuth | 209-2 | 4861912 | 4855920 | 4844192 | 4854008 | 0.19 | cps |
| Bromine | 81-1 | 9213 | 8719 | 8319 | 8751 | 5.12 | cps |
| Cadmium | 108-1 | 160961 | 164698 | 165234 | 163631 | 1.42 | cps |
| Cadmium | 106-1 | 238005 | 241248 | 238198 | 239150 | 0.76 | cps |
| Cadmium | 111-1 | 2039057 | 2042162 | 2014735 | 2031984 | 0.74 | cps |
| Calcium | 43-1 | 14388859 | 14671341 | 14368102 | 14476101 | 1.17 | cps |
| Calcium | 44-1 | 232279677 | 238553176 | 230127963 | 233653605 | 1.87 | cps |
| Carbon | 12-1 | 7096899 | 7144903 | 7253721 | 7165175 | 1.12 | cps |
| Carbon | 12-2 | 52828 | 51951 | 52965 | 52581 | 1.05 | cps |
| Chlorine | 35-1 | 5857370 | 5528454 | 5123164 | 5502996 | 6.68 | cps |
| Chlorine | 35-2 | 18459 | 18218 | 16700 | 17792 | 5.36 | cps |
| Chromium | 52-2 | 2023197 | 2018278 | 2037160 | 2026212 | 0.48 | cps |
| Cobalt | 59-2 | 3748529 | 3720976 | 3772299 | 3747268 | 0.69 | cps |
| Copper | 63-2 | 27512566 | 27670460 | 27819369 | 27667465 | 0.55 | cps |
| Dysprosium | 156-1 | 467 | 497 | 460 | 474 | 4.12 | cps |
| Dysprosium | 156-2 | 120 | 130 | 103 | 118 | 11.44 | cps |
| Erbium | 164-1 | 397 | 423 | 420 | 413 | 3.52 | cps |
| Erbium | 164-2 | 200 | 163 | 177 | 180 | 10.31 | cps |
| Gadolinium | 160-1 | 370 | 420 | 460 | 417 | 10.82 | cps |
| Gadolinium | 160-2 | 130 | 117 | 133 | 127 | 6.96 | cps |
| Holmium | 165-1 | 18843898 | 19346669 | 19540908 | 19243825 | 1.87 | cps |
| Holmium | 165-2 | 7340118 | 7267692 | 7209266 | 7272359 | 0.90 | cps |
| Indium | 115-1 | 14688916 | 14962826 | 15339911 | 14997217 | 2.18 | cps |
| Indium | 115-2 | 1576672 | 1632097 | 1579398 | 1596056 | 1.96 | cps |
| Iron | 54-2 | 20027837 | 20080403 | 20311967 | 20140069 | 0.75 | cps |
| Iron | 56-2 | 363812675 | 366830008 | 367193835 | 365945506 | 0.51 | cps |
| Iron | 57-2 | 9181668 | 9216122 | 9305387 | 9234392 | 0.69 | cps |
| Krypton | 83-1 | 330 | 240 | 313 | 294 | 16.26 | cps |
| Lead | 206-1 | 31314195 | 31532485 | 31233087 | 31359923 | 0.49 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26541661 | 27200955 | 26818730 | 26853782 | 1.23 | cps |
| Lead | 208-1 | 122650642 | 125501971 | 122454673 | 123535762 | 1.38 | cps |
| Lithium | 6-1 | 8967199 | 8782924 | 8847382 | 8865835 | 1.05 | cps |
| Magnesium | 24-2 | 67137931 | 67905231 | 66331194 | 67124785 | 1.17 | cps |
| Manganese | 55-2 | 7968041 | 8064113 | 8201483 | 8077879 | 1.45 | cps |
| Molybdenum | 94-1 | 30886780 | 30582991 | 31102544 | 30857438 | 0.85 | cps |
| Molybdenum | 95-1 | 43892184 | 44016756 | 44176591 | 44028510 | 0.32 | cps |
| Molybdenum | 96-1 | 47199818 | 48313366 | 48523289 | 48012158 | 1.48 | cps |
| Molybdenum | 97-1 | 26234736 | 27116118 | 27449412 | 26933422 | 2.33 | cps |
| Molybdenum | 98-1 | 70373587 | 69899256 | 71027784 | 70433542 | 0.80 | cps |
| Neodymium | 150-1 | 690 | 840 | 800 | 777 | 10.00 | cps |
| Neodymium | 150-2 | 43 | 77 | 60 | 60 | 27.78 | cps |
| Nickel | 60-2 | 959547 | 961771 | 966465 | 962594 | 0.37 | cps |
| Phosphorus | 31-2 | 37107 | 37485 | 36760 | 37117 | 0.98 | cps |
| Potassium | 39-2 | 19741726 | 19560303 | 19499887 | 19600639 | 0.64 | cps |
| Rhodium | 103-1 | 13381875 | 13890073 | 14094763 | 13788904 | 2.66 | cps |
| Rhodium | 103-2 | 5664695 | 5638914 | 5645145 | 5649585 | 0.24 | cps |
| Scandium | 45-1 | 11146676 | 11520856 | 11648516 | 11438682 | 2.28 | cps |
| Scandium | 45-2 | 233619 | 236411 | 232217 | 234082 | 0.91 | cps |
| Selenium | 82-1 | 122758 | 123154 | 123703 | 123205 | 0.39 | cps |
| Selenium | 77-2 | 2284 | 2320 | 2494 | 2366 | 4.74 | cps |
| Selenium | 78-2 | 7832 | 7852 | 7766 | 7817 | 0.58 | cps |
| Silicon | 28-1 | 7511109 | 7669865 | 7596495 | 7592490 | 1.05 | cps |
| Silver | 107-1 | 10189817 | 10193089 | 9938659 | 10107188 | 1.44 | cps |
| Silver | 109-1 | 9523932 | 9621895 | 9487168 | 9544332 | 0.73 | cps |
| Sodium | 23-2 | 136326141 | 135901761 | 134565448 | 135597784 | 0.68 | cps |
| Strontium | 86-1 | 2834753 | 2869579 | 2872868 | 2859067 | 0.74 | cps |
| Strontium | 88-1 | 23864573 | 25002436 | 24600280 | 24489097 | 2.36 | cps |
| Sulfur | 34-1 | 1643209 | 1689088 | 1658040 | 1663446 | 1.41 | cps |
| Terbium | 159-1 | 19569048 | 19657389 | 20074581 | 19767006 | 1.37 | cps |
| Terbium | 159-2 | 7001171 | 6929089 | 6890384 | 6940214 | 0.81 | cps |
| Thallium | 203-1 | 7783033 | 7813486 | 7808599 | 7801706 | 0.21 | cps |
| Thallium | 205-1 | 18308359 | 18109093 | 18174847 | 18197433 | 0.56 | cps |
| Tin | 118-1 | 6522564 | 6695350 | 6678152 | 6632022 | 1.44 | cps |
| Titanium | 47-1 | 13714209 | 13815224 | 14016582 | 13848672 | 1.11 | cps |
| Uranium | 238-1 | 24803367 | 25573135 | 24986725 | 25121075 | 1.60 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:14:21 | DataFile Name : | 111CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1660576 | 1600590 | 1612008 | 1624391 | 1.96 | cps |
| Ytterbium | 172-1 | 540 | 500 | 517 | 519 | 3.87 | cps |
| Ytterbium | 172-2 | 193 | 200 | 213 | 202 | 5.04 | cps |
| Ytterbium | 176-1 | 38927 | 39235 | 40412 | 39525 | 1.98 | cps |
| Ytterbium | 176-2 | 14198 | 14251 | 14131 | 14193 | 0.42 | cps |
| Yttrium | 89-1 | 27834386 | 28247964 | 28689188 | 28257179 | 1.51 | cps |
| Yttrium | 89-2 | 2138775 | 2113696 | 2094812 | 2115761 | 1.04 | cps |
| Zinc | 66-2 | 3034743 | 3023738 | 3040987 | 3033156 | 0.29 | cps |
| Zirconium | 90-1 | 15701564 | 15334014 | 15465429 | 15500336 | 1.20 | cps |
| Zirconium | 91-1 | 3447564 | 3510626 | 3483967 | 3480719 | 0.91 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 130 | 167 | 120 | 139 | 17.69 | cps |
| Antimony | 121-1 | 1220 | 1267 | 1203 | 1230 | 2.67 | cps |
| Arsenic | 75-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Barium | 135-1 | 280 | 180 | 230 | 230 | 21.74 | cps |
| Barium | 137-1 | 490 | 357 | 333 | 393 | 21.49 | cps |
| Beryllium | 9-1 | 2240 | 2125 | 2042 | 2136 | 4.64 | cps |
| Bismuth | 209-1 | 11132727 | 12471865 | 12528760 | 12044451 | 6.56 | cps |
| Bismuth | 209-2 | 5560582 | 5562889 | 5515088 | 5546187 | 0.49 | cps |
| Bromine | 81-1 | 6241 | 6718 | 6368 | 6443 | 3.83 | cps |
| Cadmium | 108-1 | 23 | 17 | 27 | 22 | 22.91 | cps |
| Cadmium | 106-1 | 7649 | 8129 | 8643 | 8140 | 6.11 | cps |
| Cadmium | 111-1 | 5458 | 5792 | 6161 | 5804 | 6.06 | cps |
| Calcium | 43-1 | 837 | 773 | 787 | 799 | 4.18 | cps |
| Calcium | 44-1 | 39143 | 37592 | 38608 | 38448 | 2.05 | cps |
| Carbon | 12-1 | 5182861 | 5130009 | 5133362 | 5148744 | 0.57 | cps |
| Carbon | 12-2 | 32332 | 32346 | 31714 | 32131 | 1.12 | cps |
| Chlorine | 35-1 | 1920695 | 1792378 | 1677974 | 1797015 | 6.76 | cps |
| Chlorine | 35-2 | 6161 | 5891 | 5731 | 5928 | 3.67 | cps |
| Chromium | 52-2 | 2347 | 2374 | 2304 | 2341 | 1.51 | cps |
| Cobalt | 59-2 | 267 | 253 | 223 | 248 | 8.96 | cps |
| Copper | 63-2 | 4531 | 4637 | 4928 | 4699 | 4.37 | cps |
| Dysprosium | 156-1 | 17 | 3 | 0 | 7 | 132.33 | cps |
| Dysprosium | 156-2 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Erbium | 164-1 | 77 | 83 | 147 | 102 | 37.80 | cps |
| Erbium | 164-2 | 30 | 33 | 40 | 34 | 14.78 | cps |
| Gadolinium | 160-1 | 140 | 103 | 157 | 133 | 20.47 | cps |
| Gadolinium | 160-2 | 33 | 13 | 13 | 20 | 57.74 | cps |
| Holmium | 165-1 | 18071493 | 19690647 | 20357116 | 19373085 | 6.07 | cps |
| Holmium | 165-2 | 7543805 | 7386519 | 7431590 | 7453971 | 1.09 | cps |
| Indium | 115-1 | 14843373 | 16501616 | 17058191 | 16134393 | 7.14 | cps |
| Indium | 115-2 | 1717976 | 1751768 | 1727638 | 1732461 | 1.00 | cps |
| Iron | 54-2 | 1197 | 1177 | 1170 | 1181 | 1.18 | cps |
| Iron | 56-2 | 18222 | 19023 | 19337 | 18860 | 3.05 | cps |
| Iron | 57-2 | 440 | 493 | 447 | 460 | 6.32 | cps |
| Krypton | 83-1 | 307 | 263 | 280 | 283 | 7.71 | cps |
| Lead | 206-1 | 4501 | 4301 | 4141 | 4314 | 4.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3991 | 3484 | 3434 | 3636 | 8.47 | cps |
| Lead | 208-1 | 17978 | 16855 | 16451 | 17095 | 4.63 | cps |
| Lithium | 6-1 | 8926280 | 9592247 | 9895162 | 9471229 | 5.23 | cps |
| Magnesium | 24-2 | 4297 | 4848 | 4504 | 4550 | 6.11 | cps |
| Manganese | 55-2 | 470 | 497 | 463 | 477 | 3.70 | cps |
| Molybdenum | 94-1 | 1467 | 1173 | 1297 | 1312 | 11.22 | cps |
| Molybdenum | 95-1 | 1270 | 1043 | 1020 | 1111 | 12.43 | cps |
| Molybdenum | 96-1 | 1607 | 1233 | 1293 | 1378 | 14.55 | cps |
| Molybdenum | 97-1 | 890 | 593 | 637 | 707 | 22.68 | cps |
| Molybdenum | 98-1 | 2034 | 1613 | 1590 | 1746 | 14.29 | cps |
| Neodymium | 150-1 | 13 | 27 | 3 | 14 | 81.07 | cps |
| Neodymium | 150-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Nickel | 60-2 | 1560 | 1583 | 1683 | 1609 | 4.07 | cps |
| Phosphorus | 31-2 | 97 | 73 | 63 | 78 | 22.00 | cps |
| Potassium | 39-2 | 20071 | 19954 | 19834 | 19953 | 0.59 | cps |
| Rhodium | 103-1 | 14007312 | 15967844 | 15983537 | 15319564 | 7.42 | cps |
| Rhodium | 103-2 | 6402876 | 6572741 | 6505723 | 6493780 | 1.32 | cps |
| Scandium | 45-1 | 10802222 | 11858081 | 12062974 | 11574426 | 5.85 | cps |
| Scandium | 45-2 | 238794 | 242269 | 241685 | 240916 | 0.77 | cps |
| Selenium | 82-1 | 0 | -17 | -3 | -7 | -132.23 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 17 | 17 | 13 | 43.29 | cps |
| Silicon | 28-1 | 664154 | 665444 | 664317 | 664638 | 0.11 | cps |
| Silver | 107-1 | 827 | 1000 | 877 | 901 | 9.90 | cps |
| Silver | 109-1 | 763 | 727 | 647 | 712 | 8.38 | cps |
| Sodium | 23-2 | 87483 | 87000 | 85441 | 86642 | 1.23 | cps |
| Strontium | 86-1 | 613 | 600 | 540 | 584 | 6.68 | cps |
| Strontium | 88-1 | 1387 | 1087 | 1123 | 1199 | 13.65 | cps |
| Sulfur | 34-1 | 845934 | 849539 | 847100 | 847524 | 0.22 | cps |
| Terbium | 159-1 | 18356439 | 19917553 | 20613223 | 19629072 | 5.89 | cps |
| Terbium | 159-2 | 7196522 | 7297144 | 7153856 | 7215841 | 1.02 | cps |
| Thallium | 203-1 | 1537 | 1450 | 1410 | 1466 | 4.42 | cps |
| Thallium | 205-1 | 3644 | 3454 | 3317 | 3472 | 4.73 | cps |
| Tin | 118-1 | 2234 | 2030 | 2110 | 2125 | 4.82 | cps |
| Titanium | 47-1 | 507 | 383 | 477 | 456 | 14.12 | cps |
| Uranium | 238-1 | 487 | 313 | 370 | 390 | 22.66 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB006 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:18:31 | DataFile Name : | 112CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 47 | 47 | 53 | 49 | 7.86 | cps |
| Ytterbium | 172-1 | 97 | 97 | 120 | 104 | 12.90 | cps |
| Ytterbium | 172-2 | 73 | 37 | 40 | 50 | 40.55 | cps |
| Ytterbium | 176-1 | 1707 | 1940 | 2074 | 1907 | 9.73 | cps |
| Ytterbium | 176-2 | 287 | 323 | 313 | 308 | 6.16 | cps |
| Yttrium | 89-1 | 26511997 | 29640960 | 29774347 | 28642435 | 6.45 | cps |
| Yttrium | 89-2 | 2181240 | 2209239 | 2230496 | 2206992 | 1.12 | cps |
| Zinc | 66-2 | 363 | 327 | 310 | 333 | 8.18 | cps |
| Zirconium | 90-1 | 1603 | 1690 | 1583 | 1626 | 3.49 | cps |
| Zirconium | 91-1 | 310 | 343 | 357 | 337 | 7.14 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 120 | 90 | 130 | 113 | 18.37 | cps |
| Antimony | 121-1 | 470 | 497 | 467 | 478 | 3.44 | cps |
| Arsenic | 75-2 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Barium | 135-1 | 113 | 83 | 103 | 100 | 15.28 | cps |
| Barium | 137-1 | 173 | 153 | 153 | 160 | 7.22 | cps |
| Beryllium | 9-1 | 1487 | 1554 | 1477 | 1506 | 2.75 | cps |
| Bismuth | 209-1 | 12481677 | 12763549 | 12679605 | 12641610 | 1.14 | cps |
| Bismuth | 209-2 | 5562554 | 5605564 | 5557153 | 5575090 | 0.48 | cps |
| Bromine | 81-1 | 5608 | 5858 | 5715 | 5727 | 2.19 | cps |
| Cadmium | 108-1 | 30 | 20 | 23 | 24 | 20.83 | cps |
| Cadmium | 106-1 | 8316 | 8213 | 8693 | 8407 | 3.01 | cps |
| Cadmium | 111-1 | 5883 | 5778 | 6135 | 5932 | 3.09 | cps |
| Calcium | 43-1 | 667 | 697 | 660 | 674 | 2.90 | cps |
| Calcium | 44-1 | 35063 | 34899 | 34902 | 34955 | 0.27 | cps |
| Carbon | 12-1 | 5271856 | 5393765 | 5340657 | 5335426 | 1.15 | cps |
| Carbon | 12-2 | 33615 | 33765 | 33562 | 33647 | 0.31 | cps |
| Chlorine | 35-1 | 1085451 | 1043881 | 1018406 | 1049246 | 3.23 | cps |
| Chlorine | 35-2 | 3897 | 4024 | 3681 | 3867 | 4.49 | cps |
| Chromium | 52-2 | 957 | 1010 | 1090 | 1019 | 6.59 | cps |
| Cobalt | 59-2 | 220 | 157 | 207 | 194 | 17.17 | cps |
| Copper | 63-2 | 4011 | 4101 | 3981 | 4031 | 1.55 | cps |
| Dysprosium | 156-1 | 10 | 20 | 7 | 12 | 56.76 | cps |
| Dysprosium | 156-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Erbium | 164-1 | 103 | 63 | 77 | 81 | 25.11 | cps |
| Erbium | 164-2 | 43 | 57 | 43 | 48 | 16.12 | cps |
| Gadolinium | 160-1 | 83 | 113 | 140 | 112 | 25.26 | cps |
| Gadolinium | 160-2 | 23 | 30 | 23 | 26 | 15.07 | cps |
| Holmium | 165-1 | 20213805 | 20187432 | 20334728 | 20245322 | 0.39 | cps |
| Holmium | 165-2 | 7603875 | 7497275 | 7584258 | 7561803 | 0.75 | cps |
| Indium | 115-1 | 16782509 | 16884089 | 16732298 | 16799632 | 0.46 | cps |
| Indium | 115-2 | 1798211 | 1792324 | 1744410 | 1778315 | 1.66 | cps |
| Iron | 54-2 | 697 | 713 | 767 | 726 | 5.04 | cps |
| Iron | 56-2 | 10531 | 11148 | 10477 | 10718 | 3.48 | cps |
| Iron | 57-2 | 267 | 200 | 223 | 230 | 14.71 | cps |
| Krypton | 83-1 | 333 | 363 | 323 | 340 | 6.12 | cps |
| Lead | 206-1 | 3504 | 3237 | 3160 | 3300 | 5.46 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2884 | 2837 | 2840 | 2854 | 0.91 | cps |
| Lead | 208-1 | 13309 | 12939 | 13049 | 13099 | 1.45 | cps |
| Lithium | 6-1 | 10130947 | 9931908 | 9959526 | 10007460 | 1.08 | cps |
| Magnesium | 24-2 | 3867 | 4084 | 3804 | 3918 | 3.75 | cps |
| Manganese | 55-2 | 247 | 290 | 280 | 272 | 8.34 | cps |
| Molybdenum | 94-1 | 740 | 710 | 877 | 776 | 11.45 | cps |
| Molybdenum | 95-1 | 457 | 470 | 427 | 451 | 4.92 | cps |
| Molybdenum | 96-1 | 540 | 550 | 497 | 529 | 5.36 | cps |
| Molybdenum | 97-1 | 250 | 240 | 267 | 252 | 5.34 | cps |
| Molybdenum | 98-1 | 633 | 630 | 623 | 629 | 0.81 | cps |
| Neodymium | 150-1 | 3 | 23 | 7 | 11 | 96.43 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 1337 | 1257 | 1457 | 1350 | 7.46 | cps |
| Phosphorus | 31-2 | 50 | 67 | 83 | 67 | 25.00 | cps |
| Potassium | 39-2 | 18953 | 19119 | 19467 | 19179 | 1.37 | cps |
| Rhodium | 103-1 | 16253016 | 15898831 | 16246447 | 16132765 | 1.26 | cps |
| Rhodium | 103-2 | 6668796 | 6685266 | 6544614 | 6632892 | 1.16 | cps |
| Scandium | 45-1 | 12325101 | 12381759 | 12401870 | 12369577 | 0.32 | cps |
| Scandium | 45-2 | 246613 | 246024 | 246049 | 246229 | 0.14 | cps |
| Selenium | 82-1 | -70 | -153 | -13 | -79 | -89.27 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Silicon | 28-1 | 667213 | 659360 | 656986 | 661186 | 0.81 | cps |
| Silver | 107-1 | 537 | 470 | 557 | 521 | 8.71 | cps |
| Silver | 109-1 | 330 | 360 | 350 | 347 | 4.41 | cps |
| Sodium | 23-2 | 73634 | 72234 | 72365 | 72744 | 1.06 | cps |
| Strontium | 86-1 | 570 | 573 | 503 | 549 | 7.19 | cps |
| Strontium | 88-1 | 940 | 1087 | 1100 | 1042 | 8.52 | cps |
| Sulfur | 34-1 | 846139 | 848625 | 848722 | 847829 | 0.17 | cps |
| Terbium | 159-1 | 21202456 | 20911194 | 20756488 | 20956713 | 1.08 | cps |
| Terbium | 159-2 | 7229223 | 7268822 | 7297345 | 7265130 | 0.47 | cps |
| Thallium | 203-1 | 1010 | 977 | 1003 | 997 | 1.77 | cps |
| Thallium | 205-1 | 2627 | 2414 | 2147 | 2396 | 10.04 | cps |
| Tin | 118-1 | 2294 | 2314 | 2460 | 2356 | 3.86 | cps |
| Titanium | 47-1 | 310 | 380 | 320 | 337 | 11.25 | cps |
| Uranium | 238-1 | 117 | 97 | 97 | 103 | 11.17 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:21:50 | DataFile Name : | 113CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3 | 23 | 23 | 17 | 69.30 | cps |
| Ytterbium | 172-1 | 110 | 113 | 123 | 116 | 6.01 | cps |
| Ytterbium | 172-2 | 57 | 40 | 43 | 47 | 18.90 | cps |
| Ytterbium | 176-1 | 1950 | 1943 | 1833 | 1909 | 3.43 | cps |
| Ytterbium | 176-2 | 280 | 337 | 323 | 313 | 9.46 | cps |
| Yttrium | 89-1 | 30013750 | 30289450 | 29926630 | 30076610 | 0.63 | cps |
| Yttrium | 89-2 | 2280269 | 2252500 | 2229497 | 2254089 | 1.13 | cps |
| Zinc | 66-2 | 963 | 1020 | 913 | 966 | 5.53 | cps |
| Zirconium | 90-1 | 1167 | 1163 | 1277 | 1202 | 5.36 | cps |
| Zirconium | 91-1 | 200 | 217 | 230 | 216 | 6.97 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 787348 | 790288 | 790928 | 789521 | 0.24 | cps |
| Antimony | 121-1 | 8955494 | 8993682 | 8835811 | 8928329 | 0.92 | cps |
| Arsenic | 75-2 | 190723 | 191009 | 192340 | 191357 | 0.45 | cps |
| Barium | 135-1 | 10554059 | 10624601 | 10552231 | 10576964 | 0.39 | cps |
| Barium | 137-1 | 18269626 | 18618574 | 18350340 | 18412847 | 0.99 | cps |
| Beryllium | 9-1 | 3301563 | 3311751 | 3307655 | 3306990 | 0.16 | cps |
| Bismuth | 209-1 | 12066354 | 12110779 | 11898192 | 12025108 | 0.93 | cps |
| Bismuth | 209-2 | 5272382 | 5251311 | 5291660 | 5271784 | 0.38 | cps |
| Bromine | 81-1 | 5251 | 5394 | 5291 | 5312 | 1.39 | cps |
| Cadmium | 108-1 | 175675 | 177066 | 179081 | 177274 | 0.97 | cps |
| Cadmium | 106-1 | 260454 | 261695 | 261152 | 261100 | 0.24 | cps |
| Cadmium | 111-1 | 2256503 | 2223205 | 2232640 | 2237449 | 0.77 | cps |
| Calcium | 43-1 | 3141341 | 3149261 | 3161986 | 3150862 | 0.33 | cps |
| Calcium | 44-1 | 50682588 | 51351826 | 52087873 | 51374095 | 1.37 | cps |
| Carbon | 12-1 | 5703956 | 5977252 | 5998809 | 5893339 | 2.79 | cps |
| Carbon | 12-2 | 41839 | 40917 | 40890 | 41215 | 1.31 | cps |
| Chlorine | 35-1 | 800693 | 797421 | 790363 | 796159 | 0.66 | cps |
| Chlorine | 35-2 | 3164 | 3337 | 3137 | 3213 | 3.38 | cps |
| Chromium | 52-2 | 2195737 | 2200073 | 2193453 | 2196421 | 0.15 | cps |
| Cobalt | 59-2 | 4131937 | 4136925 | 4141864 | 4136909 | 0.12 | cps |
| Copper | 63-2 | 31165467 | 30370500 | 30817404 | 30784457 | 1.29 | cps |
| Dysprosium | 156-1 | 167 | 203 | 193 | 188 | 10.09 | cps |
| Dysprosium | 156-2 | 30 | 73 | 37 | 47 | 49.99 | cps |
| Erbium | 164-1 | 207 | 207 | 200 | 204 | 1.88 | cps |
| Erbium | 164-2 | 93 | 50 | 80 | 74 | 29.81 | cps |
| Gadolinium | 160-1 | 213 | 180 | 163 | 186 | 13.72 | cps |
| Gadolinium | 160-2 | 57 | 67 | 30 | 51 | 37.09 | cps |
| Holmium | 165-1 | 20032036 | 20150038 | 19855042 | 20012372 | 0.74 | cps |
| Holmium | 165-2 | 7408260 | 7546853 | 7518443 | 7491186 | 0.98 | cps |
| Indium | 115-1 | 16346967 | 16173419 | 15979167 | 16166518 | 1.14 | cps |
| Indium | 115-2 | 1707017 | 1690941 | 1680787 | 1692915 | 0.78 | cps |
| Iron | 54-2 | 4383858 | 4392986 | 4443080 | 4406641 | 0.72 | cps |
| Iron | 56-2 | 79414069 | 80151207 | 78772069 | 79445782 | 0.87 | cps |
| Iron | 57-2 | 2024870 | 2063987 | 2019460 | 2036106 | 1.19 | cps |
| Krypton | 83-1 | 293 | 310 | 337 | 313 | 6.98 | cps |
| Lead | 206-1 | 33738685 | 34024552 | 33699774 | 33821003 | 0.52 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 28630360 | 28976463 | 29287962 | 28964928 | 1.14 | cps |
| Lead | 208-1 | 133058583 | 134162682 | 134327668 | 133849644 | 0.52 | cps |
| Lithium | 6-1 | 9475163 | 9731346 | 9296417 | 9500975 | 2.30 | cps |
| Magnesium | 24-2 | 14644096 | 14697776 | 14852085 | 14731319 | 0.73 | cps |
| Manganese | 55-2 | 8723079 | 8762150 | 8702857 | 8729362 | 0.35 | cps |
| Molybdenum | 94-1 | 32138259 | 32021697 | 32729871 | 32296609 | 1.18 | cps |
| Molybdenum | 95-1 | 45665263 | 46000524 | 46472253 | 46046013 | 0.88 | cps |
| Molybdenum | 96-1 | 50535294 | 50414424 | 51860431 | 50936716 | 1.57 | cps |
| Molybdenum | 97-1 | 28606066 | 28181270 | 29000242 | 28595860 | 1.43 | cps |
| Molybdenum | 98-1 | 74491217 | 73502842 | 75478501 | 74490853 | 1.33 | cps |
| Neodymium | 150-1 | 643 | 683 | 633 | 653 | 4.05 | cps |
| Neodymium | 150-2 | 20 | 23 | 30 | 24 | 20.83 | cps |
| Nickel | 60-2 | 1065006 | 1064126 | 1070170 | 1066434 | 0.31 | cps |
| Phosphorus | 31-2 | 38682 | 39240 | 39307 | 39076 | 0.88 | cps |
| Potassium | 39-2 | 4192791 | 4190328 | 4193411 | 4192177 | 0.04 | cps |
| Rhodium | 103-1 | 15179304 | 15294266 | 15197151 | 15223574 | 0.41 | cps |
| Rhodium | 103-2 | 6194663 | 6164435 | 6147808 | 6168969 | 0.39 | cps |
| Scandium | 45-1 | 12085458 | 11922192 | 12240556 | 12082736 | 1.32 | cps |
| Scandium | 45-2 | 243443 | 244181 | 243320 | 243648 | 0.19 | cps |
| Selenium | 82-1 | 134029 | 137002 | 134165 | 135065 | 1.24 | cps |
| Selenium | 77-2 | 2420 | 2394 | 2444 | 2419 | 1.03 | cps |
| Selenium | 78-2 | 8399 | 8333 | 8329 | 8354 | 0.47 | cps |
| Silicon | 28-1 | 7768240 | 7809244 | 7825762 | 7801082 | 0.38 | cps |
| Silver | 107-1 | 11383879 | 11415208 | 11311754 | 11370281 | 0.47 | cps |
| Silver | 109-1 | 10760205 | 10606395 | 10749953 | 10705518 | 0.80 | cps |
| Sodium | 23-2 | 29996001 | 29866635 | 29897824 | 29920153 | 0.23 | cps |
| Strontium | 86-1 | 2989869 | 3050371 | 3048229 | 3029490 | 1.13 | cps |
| Strontium | 88-1 | 25582315 | 26075485 | 26306392 | 25988064 | 1.42 | cps |
| Sulfur | 34-1 | 1686865 | 1690164 | 1678394 | 1685141 | 0.36 | cps |
| Terbium | 159-1 | 21002492 | 20735963 | 20436668 | 20725041 | 1.37 | cps |
| Terbium | 159-2 | 7165827 | 7126885 | 7154969 | 7149227 | 0.28 | cps |
| Thallium | 203-1 | 8324905 | 8274418 | 8252487 | 8283936 | 0.45 | cps |
| Thallium | 205-1 | 19731430 | 19919296 | 19532047 | 19727591 | 0.98 | cps |
| Tin | 118-1 | 7141210 | 7177610 | 7212358 | 7177059 | 0.50 | cps |
| Titanium | 47-1 | 14709919 | 14839997 | 15056991 | 14868969 | 1.18 | cps |
| Uranium | 238-1 | 26015354 | 26397854 | 26274160 | 26229122 | 0.74 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166378BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS378 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:25:12 | DataFile Name : | 114LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1697670 | 1691243 | 1738928 | 1709280 | 1.51 | cps |
| Ytterbium | 172-1 | 180 | 207 | 197 | 194 | 6.93 | cps |
| Ytterbium | 172-2 | 63 | 123 | 90 | 92 | 32.60 | cps |
| Ytterbium | 176-1 | 39275 | 41074 | 40435 | 40261 | 2.27 | cps |
| Ytterbium | 176-2 | 14168 | 14335 | 14528 | 14343 | 1.26 | cps |
| Yttrium | 89-1 | 29455209 | 29200625 | 29695151 | 29450328 | 0.84 | cps |
| Yttrium | 89-2 | 2212601 | 2181656 | 2183470 | 2192576 | 0.79 | cps |
| Zinc | 66-2 | 3287401 | 3253973 | 3310342 | 3283905 | 0.86 | cps |
| Zirconium | 90-1 | 15855702 | 15993035 | 16112148 | 15986962 | 0.80 | cps |
| Zirconium | 91-1 | 3589797 | 3591784 | 3654426 | 3612003 | 1.02 | cps |



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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1817 | 1623 | 1670 | 1703 | 5.92 | cps |
| Antimony | 121-1 | 2684 | 2404 | 2210 | 2432 | 9.79 | cps |
| Arsenic | 75-2 | 523 | 607 | 480 | 537 | 12.00 | cps |
| Barium | 135-1 | 190432 | 192674 | 193779 | 192295 | 0.89 | cps |
| Barium | 137-1 | 334382 | 334859 | 333140 | 334127 | 0.27 | cps |
| Beryllium | 9-1 | 2676 | 2546 | 2471 | 2564 | 4.04 | cps |
| Bismuth | 209-1 | 12663285 | 12834575 | 12455976 | 12651279 | 1.50 | cps |
| Bismuth | 209-2 | 5635308 | 5674534 | 5623698 | 5644514 | 0.47 | cps |
| Bromine | 81-1 | 71625 | 73836 | 76923 | 74128 | 3.59 | cps |
| Cadmium | 108-1 | 43 | 43 | 67 | 51 | 26.37 | cps |
| Cadmium | 106-1 | 8329 | 8299 | 9236 | 8622 | 6.18 | cps |
| Cadmium | 111-1 | 6310 | 6266 | 6839 | 6472 | 4.93 | cps |
| Calcium | 43-1 | 651982 | 658834 | 669976 | 660264 | 1.38 | cps |
| Calcium | 44-1 | 10915482 | 11048017 | 10851816 | 10938438 | 0.92 | cps |
| Carbon | 12-1 | 11437456 | 12810610 | 13058392 | 12435486 | 7.02 | cps |
| Carbon | 12-2 | 86379 | 86740 | 87713 | 86944 | 0.79 | cps |
| Chlorine | 35-1 | 952045 | 975063 | 988373 | 971827 | 1.89 | cps |
| Chlorine | 35-2 | 4107 | 4037 | 4071 | 4072 | 0.86 | cps |
| Chromium | 52-2 | 2257 | 2394 | 2384 | 2345 | 3.25 | cps |
| Cobalt | 59-2 | 49328 | 49365 | 49198 | 49297 | 0.18 | cps |
| Copper | 63-2 | 8192 | 8379 | 8336 | 8302 | 1.18 | cps |
| Dysprosium | 156-1 | 2780 | 2380 | 2620 | 2594 | 7.76 | cps |
| Dysprosium | 156-2 | 993 | 987 | 903 | 961 | 5.22 | cps |
| Erbium | 164-1 | 2114 | 2070 | 2244 | 2142 | 4.21 | cps |
| Erbium | 164-2 | 723 | 777 | 750 | 750 | 3.56 | cps |
| Gadolinium | 160-1 | 2907 | 2624 | 2664 | 2731 | 5.62 | cps |
| Gadolinium | 160-2 | 1123 | 1137 | 1157 | 1139 | 1.47 | cps |
| Holmium | 165-1 | 20410726 | 20623479 | 20589832 | 20541346 | 0.56 | cps |
| Holmium | 165-2 | 7627924 | 7681529 | 7507619 | 7605691 | 1.17 | cps |
| Indium | 115-1 | 17197890 | 17078519 | 17008640 | 17095016 | 0.56 | cps |
| Indium | 115-2 | 1804729 | 1836794 | 1789630 | 1810384 | 1.33 | cps |
| Iron | 54-2 | 1291386 | 1285109 | 1311066 | 1295854 | 1.05 | cps |
| Iron | 56-2 | 24298279 | 24274318 | 24279973 | 24284190 | 0.05 | cps |
| Iron | 57-2 | 595962 | 591929 | 599071 | 595654 | 0.60 | cps |
| Krypton | 83-1 | 310 | 287 | 293 | 297 | 4.05 | cps |
| Lead | 206-1 | 6111 | 6158 | 5595 | 5955 | 5.25 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5548 | 5388 | 4924 | 5287 | 6.13 | cps |
| Lead | 208-1 | 24963 | 23939 | 22111 | 23671 | 6.10 | cps |
| Lithium | 6-1 | 10216554 | 9855473 | 9889141 | 9987056 | 2.00 | cps |
| Magnesium | 24-2 | 2540767 | 2504190 | 2499730 | 2514896 | 0.90 | cps |
| Manganese | 55-2 | 7365887 | 7298111 | 7371480 | 7345159 | 0.56 | cps |
| Molybdenum | 94-1 | 2587 | 2170 | 1913 | 2224 | 15.29 | cps |
| Molybdenum | 95-1 | 2954 | 2570 | 2067 | 2530 | 17.58 | cps |
| Molybdenum | 96-1 | 3354 | 2937 | 2520 | 2937 | 14.19 | cps |
| Molybdenum | 97-1 | 1707 | 1363 | 1250 | 1440 | 16.51 | cps |
| Molybdenum | 98-1 | 4421 | 4014 | 3257 | 3897 | 15.15 | cps |
| Neodymium | 150-1 | 3374 | 3374 | 3200 | 3316 | 3.02 | cps |
| Neodymium | 150-2 | 853 | 917 | 873 | 881 | 3.67 | cps |
| Nickel | 60-2 | 43984 | 43309 | 44289 | 43861 | 1.14 | cps |
| Phosphorus | 31-2 | 143 | 117 | 120 | 127 | 11.47 | cps |
| Potassium | 39-2 | 405692 | 405329 | 411433 | 407485 | 0.84 | cps |
| Rhodium | 103-1 | 16217737 | 16296777 | 16071353 | 16195289 | 0.71 | cps |
| Rhodium | 103-2 | 6656579 | 6652029 | 6467602 | 6592070 | 1.64 | cps |
| Scandium | 45-1 | 12434108 | 12702817 | 12592981 | 12576636 | 1.07 | cps |
| Scandium | 45-2 | 249579 | 249503 | 250864 | 249982 | 0.31 | cps |
| Selenium | 82-1 | 80 | 93 | -17 | 52 | 114.96 | cps |
| Selenium | 77-2 | 3 | 0 | 10 | 4 | 114.60 | cps |
| Selenium | 78-2 | 3 | 23 | 27 | 18 | 71.00 | cps |
| Silicon | 28-1 | 31816674 | 32087473 | 31270287 | 31724811 | 1.31 | cps |
| Silver | 107-1 | 1570 | 1327 | 1237 | 1378 | 12.52 | cps |
| Silver | 109-1 | 1327 | 1187 | 1127 | 1213 | 8.46 | cps |
| Sodium | 23-2 | 2084017 | 2091126 | 2119709 | 2098284 | 0.90 | cps |
| Strontium | 86-1 | 314382 | 313684 | 308174 | 312080 | 1.09 | cps |
| Strontium | 88-1 | 2809731 | 2806560 | 2773268 | 2796520 | 0.72 | cps |
| Sulfur | 34-1 | 1215417 | 1214299 | 1209162 | 1212959 | 0.28 | cps |
| Terbium | 159-1 | 21433338 | 21437108 | 21410690 | 21427045 | 0.07 | cps |
| Terbium | 159-2 | 7370722 | 7517532 | 7423588 | 7437281 | 1.00 | cps |
| Thallium | 203-1 | 1500 | 1400 | 1357 | 1419 | 5.18 | cps |
| Thallium | 205-1 | 3654 | 3250 | 3120 | 3342 | 8.32 | cps |
| Tin | 118-1 | 4611 | 4731 | 4628 | 4656 | 1.40 | cps |
| Titanium | 47-1 | 1747 | 1787 | 1447 | 1660 | 11.20 | cps |
| Uranium | 238-1 | 2040 | 2004 | 1753 | 1932 | 8.07 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1201-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW12-012725- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:28:00 | DataFile Name : | 115AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 960 | 940 | 1007 | 969 | 3.53 | cps |
| Ytterbium | 172-1 | 997 | 1007 | 1017 | 1007 | 0.99 | cps |
| Ytterbium | 172-2 | 463 | 447 | 513 | 474 | 7.31 | cps |
| Ytterbium | 176-1 | 2484 | 2510 | 2287 | 2427 | 5.03 | cps |
| Ytterbium | 176-2 | 600 | 530 | 537 | 556 | 6.95 | cps |
| Yttrium | 89-1 | 30656168 | 30492276 | 29992369 | 30380271 | 1.14 | cps |
| Yttrium | 89-2 | 2356110 | 2303990 | 2251321 | 2303807 | 2.27 | cps |
| Zinc | 66-2 | 8426 | 8516 | 8099 | 8347 | 2.63 | cps |
| Zirconium | 90-1 | 2180 | 2140 | 2310 | 2210 | 4.02 | cps |
| Zirconium | 91-1 | 420 | 463 | 440 | 441 | 4.92 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1503 | 1654 | 1417 | 1525 | 7.86 | cps |
| Antimony | 121-1 | 940 | 943 | 1050 | 978 | 6.40 | cps |
| Arsenic | 75-2 | 37 | 23 | 63 | 41 | 49.54 | cps |
| Barium | 135-1 | 96330 | 95984 | 95510 | 95941 | 0.43 | cps |
| Barium | 137-1 | 166335 | 166755 | 166346 | 166479 | 0.14 | cps |
| Beryllium | 9-1 | 1462 | 1440 | 1451 | 1451 | 0.78 | cps |
| Bismuth | 209-1 | 13005101 | 12806254 | 12503938 | 12771765 | 1.98 | cps |
| Bismuth | 209-2 | 5546686 | 5504523 | 5543276 | 5531495 | 0.42 | cps |
| Bromine | 81-1 | 31402 | 33246 | 35365 | 33338 | 5.95 | cps |
| Cadmium | 108-1 | 57 | 40 | 20 | 39 | 47.21 | cps |
| Cadmium | 106-1 | 8866 | 8686 | 8459 | 8671 | 2.35 | cps |
| Cadmium | 111-1 | 6277 | 6172 | 6031 | 6160 | 2.00 | cps |
| Calcium | 43-1 | 1860513 | 1813245 | 1808619 | 1827459 | 1.57 | cps |
| Calcium | 44-1 | 29462356 | 29424995 | 29782362 | 29556571 | 0.66 | cps |
| Carbon | 12-1 | 10624126 | 11636484 | 11871696 | 11377435 | 5.83 | cps |
| Carbon | 12-2 | 78367 | 78408 | 79953 | 78909 | 1.15 | cps |
| Chlorine | 35-1 | 1947143 | 2076439 | 2171543 | 2065042 | 5.45 | cps |
| Chlorine | 35-2 | 9110 | 8950 | 9156 | 9072 | 1.20 | cps |
| Chromium | 52-2 | 2740 | 2677 | 2874 | 2764 | 3.63 | cps |
| Cobalt | 59-2 | 16293 | 16927 | 16440 | 16553 | 2.01 | cps |
| Copper | 63-2 | 6495 | 6558 | 6765 | 6606 | 2.14 | cps |
| Dysprosium | 156-1 | 897 | 890 | 987 | 924 | 5.84 | cps |
| Dysprosium | 156-2 | 227 | 243 | 240 | 237 | 3.73 | cps |
| Erbium | 164-1 | 550 | 570 | 627 | 582 | 6.83 | cps |
| Erbium | 164-2 | 207 | 217 | 207 | 210 | 2.75 | cps |
| Gadolinium | 160-1 | 687 | 757 | 660 | 701 | 7.12 | cps |
| Gadolinium | 160-2 | 270 | 290 | 310 | 290 | 6.90 | cps |
| Holmium | 165-1 | 20991995 | 20640413 | 20437761 | 20690056 | 1.36 | cps |
| Holmium | 165-2 | 7607015 | 7603210 | 7631046 | 7613757 | 0.20 | cps |
| Indium | 115-1 | 17432461 | 17121433 | 17054240 | 17202711 | 1.17 | cps |
| Indium | 115-2 | 1776596 | 1779810 | 1763278 | 1773228 | 0.49 | cps |
| Iron | 54-2 | 10661 | 10637 | 11135 | 10811 | 2.60 | cps |
| Iron | 56-2 | 193972 | 196027 | 191912 | 193970 | 1.06 | cps |
| Iron | 57-2 | 5008 | 4958 | 4958 | 4974 | 0.58 | cps |
| Krypton | 83-1 | 297 | 277 | 257 | 277 | 7.23 | cps |
| Lead | 206-1 | 6375 | 6615 | 6505 | 6498 | 1.85 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5451 | 5668 | 5455 | 5525 | 2.25 | cps |
| Lead | 208-1 | 25607 | 25967 | 25357 | 25644 | 1.20 | cps |
| Lithium | 6-1 | 9924490 | 9825268 | 9976480 | 9908746 | 0.78 | cps |
| Magnesium | 24-2 | 1691771 | 1636002 | 1674885 | 1667553 | 1.72 | cps |
| Manganese | 55-2 | 524122 | 524576 | 523171 | 523956 | 0.14 | cps |
| Molybdenum | 94-1 | 1373 | 1357 | 1297 | 1342 | 3.00 | cps |
| Molybdenum | 95-1 | 1003 | 963 | 980 | 982 | 2.05 | cps |
| Molybdenum | 96-1 | 1143 | 1120 | 1320 | 1195 | 9.16 | cps |
| Molybdenum | 97-1 | 693 | 620 | 640 | 651 | 5.82 | cps |
| Molybdenum | 98-1 | 1667 | 1440 | 1340 | 1482 | 11.29 | cps |
| Neodymium | 150-1 | 1327 | 1413 | 1430 | 1390 | 3.99 | cps |
| Neodymium | 150-2 | 303 | 330 | 327 | 320 | 4.54 | cps |
| Nickel | 60-2 | 3114 | 3437 | 3277 | 3276 | 4.94 | cps |
| Phosphorus | 31-2 | 93 | 127 | 107 | 109 | 15.41 | cps |
| Potassium | 39-2 | 494950 | 487656 | 485488 | 489365 | 1.01 | cps |
| Rhodium | 103-1 | 16557549 | 16054739 | 15724015 | 16112101 | 2.60 | cps |
| Rhodium | 103-2 | 6643400 | 6477841 | 6426505 | 6515915 | 1.74 | cps |
| Scandium | 45-1 | 13101936 | 12631281 | 12454136 | 12729118 | 2.63 | cps |
| Scandium | 45-2 | 247629 | 247663 | 248308 | 247866 | 0.15 | cps |
| Selenium | 82-1 | 647 | 637 | 827 | 703 | 15.20 | cps |
| Selenium | 77-2 | 13 | 33 | 17 | 21 | 50.75 | cps |
| Selenium | 78-2 | 57 | 70 | 50 | 59 | 17.29 | cps |
| Silicon | 28-1 | 55294051 | 55416879 | 55695774 | 55468901 | 0.37 | cps |
| Silver | 107-1 | 587 | 487 | 567 | 547 | 9.68 | cps |
| Silver | 109-1 | 423 | 367 | 413 | 401 | 7.54 | cps |
| Sodium | 23-2 | 6175695 | 6136671 | 6154692 | 6155686 | 0.32 | cps |
| Strontium | 86-1 | 528091 | 531473 | 527178 | 528914 | 0.43 | cps |
| Strontium | 88-1 | 4724120 | 4732397 | 4645721 | 4700746 | 1.02 | cps |
| Sulfur | 34-1 | 1656582 | 1629453 | 1621562 | 1635865 | 1.12 | cps |
| Terbium | 159-1 | 21854645 | 21415621 | 20821493 | 21363920 | 2.43 | cps |
| Terbium | 159-2 | 7136338 | 7314207 | 7332838 | 7261128 | 1.49 | cps |
| Thallium | 203-1 | 1173 | 1290 | 1120 | 1195 | 7.28 | cps |
| Thallium | 205-1 | 2984 | 2894 | 2944 | 2940 | 1.53 | cps |
| Tin | 118-1 | 11512 | 11392 | 11782 | 11562 | 1.73 | cps |
| Titanium | 47-1 | 2294 | 2360 | 2387 | 2347 | 2.05 | cps |
| Uranium | 238-1 | 700 | 680 | 630 | 670 | 5.38 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-01 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPHHA-MW01-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:31:16 | DataFile Name : | 116AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 253 | 233 | 270 | 252 | 7.28 | cps |
| Ytterbium | 172-1 | 227 | 253 | 233 | 238 | 5.84 | cps |
| Ytterbium | 172-2 | 107 | 130 | 90 | 109 | 18.45 | cps |
| Ytterbium | 176-1 | 2117 | 2030 | 1937 | 2028 | 4.44 | cps |
| Ytterbium | 176-2 | 323 | 413 | 320 | 352 | 15.03 | cps |
| Yttrium | 89-1 | 31414936 | 30529560 | 30135160 | 30693219 | 2.14 | cps |
| Yttrium | 89-2 | 2252303 | 2266186 | 2244612 | 2254367 | 0.49 | cps |
| Zinc | 66-2 | 3494 | 3360 | 3704 | 3519 | 4.92 | cps |
| Zirconium | 90-1 | 2134 | 2020 | 2124 | 2092 | 3.00 | cps |
| Zirconium | 91-1 | 493 | 947 | 420 | 620 | 46.06 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 15919 | 16206 | 16380 | 16168 | 1.44 | cps |
| Antimony | 121-1 | 1047 | 1060 | 1033 | 1047 | 1.27 | cps |
| Arsenic | 75-2 | 1797 | 1743 | 1793 | 1778 | 1.68 | cps |
| Barium | 135-1 | 166081 | 169827 | 170421 | 168777 | 1.39 | cps |
| Barium | 137-1 | 301157 | 298752 | 297462 | 299124 | 0.63 | cps |
| Beryllium | 9-1 | 1440 | 1441 | 1416 | 1432 | 0.98 | cps |
| Bismuth | 209-1 | 12642646 | 12698270 | 12548383 | 12629766 | 0.60 | cps |
| Bismuth | 209-2 | 5640039 | 5711276 | 5411939 | 5587751 | 2.80 | cps |
| Bromine | 81-1 | 20081 | 21426 | 21460 | 20989 | 3.75 | cps |
| Cadmium | 108-1 | 47 | 53 | 53 | 51 | 7.52 | cps |
| Cadmium | 106-1 | 9156 | 9073 | 8960 | 9063 | 1.09 | cps |
| Cadmium | 111-1 | 6447 | 6377 | 6298 | 6374 | 1.17 | cps |
| Calcium | 43-1 | 888034 | 878339 | 878923 | 881765 | 0.62 | cps |
| Calcium | 44-1 | 14700221 | 14428829 | 14196691 | 14441914 | 1.75 | cps |
| Carbon | 12-1 | 12736820 | 13551283 | 14059599 | 13449234 | 4.96 | cps |
| Carbon | 12-2 | 91234 | 92770 | 92713 | 92239 | 0.94 | cps |
| Chlorine | 35-1 | 932378 | 939805 | 943794 | 938659 | 0.62 | cps |
| Chlorine | 35-2 | 3577 | 3791 | 3781 | 3716 | 3.24 | cps |
| Chromium | 52-2 | 7192 | 6932 | 6978 | 7034 | 1.97 | cps |
| Cobalt | 59-2 | 59905 | 59393 | 59711 | 59670 | 0.43 | cps |
| Copper | 63-2 | 8953 | 9700 | 9200 | 9284 | 4.10 | cps |
| Dysprosium | 156-1 | 4314 | 4084 | 4191 | 4196 | 2.74 | cps |
| Dysprosium | 156-2 | 1473 | 1467 | 1400 | 1447 | 2.80 | cps |
| Erbium | 164-1 | 3257 | 3304 | 3487 | 3349 | 3.63 | cps |
| Erbium | 164-2 | 1217 | 1233 | 1067 | 1172 | 7.83 | cps |
| Gadolinium | 160-1 | 3791 | 3834 | 4004 | 3876 | 2.91 | cps |
| Gadolinium | 160-2 | 1830 | 1603 | 1590 | 1675 | 8.06 | cps |
| Holmium | 165-1 | 20210077 | 20714924 | 20672811 | 20532604 | 1.36 | cps |
| Holmium | 165-2 | 7717327 | 7564456 | 7583057 | 7621614 | 1.09 | cps |
| Indium | 115-1 | 16925137 | 17275026 | 17134504 | 17111556 | 1.03 | cps |
| Indium | 115-2 | 1761473 | 1786028 | 1798214 | 1781905 | 1.05 | cps |
| Iron | 54-2 | 6488031 | 6566587 | 6595636 | 6550084 | 0.85 | cps |
| Iron | 56-2 | 119954912 | 121139775 | 118691882 | 119928856 | 1.02 | cps |
| Iron | 57-2 | 3119417 | 3124277 | 2989760 | 3077818 | 2.48 | cps |
| Krypton | 83-1 | 200 | 290 | 273 | 254 | 18.82 | cps |
| Lead | 206-1 | 6021 | 5905 | 6001 | 5976 | 1.04 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5571 | 5485 | 5054 | 5370 | 5.16 | cps |
| Lead | 208-1 | 24726 | 24309 | 23645 | 24227 | 2.25 | cps |
| Lithium | 6-1 | 9823046 | 9763397 | 10194518 | 9926987 | 2.35 | cps |
| Magnesium | 24-2 | 871282 | 868000 | 861430 | 866904 | 0.58 | cps |
| Manganese | 55-2 | 1894204 | 1948683 | 1962295 | 1935060 | 1.86 | cps |
| Molybdenum | 94-1 | 6128 | 6071 | 6242 | 6147 | 1.41 | cps |
| Molybdenum | 95-1 | 2924 | 3177 | 2904 | 3001 | 5.08 | cps |
| Molybdenum | 96-1 | 4177 | 4264 | 4284 | 4242 | 1.34 | cps |
| Molybdenum | 97-1 | 1873 | 1817 | 1823 | 1838 | 1.69 | cps |
| Molybdenum | 98-1 | 4891 | 4864 | 4587 | 4781 | 3.51 | cps |
| Neodymium | 150-1 | 6672 | 6435 | 6622 | 6576 | 1.90 | cps |
| Neodymium | 150-2 | 1763 | 1660 | 1780 | 1735 | 3.75 | cps |
| Nickel | 60-2 | 5508 | 5328 | 5081 | 5305 | 4.04 | cps |
| Phosphorus | 31-2 | 173 | 157 | 207 | 179 | 14.23 | cps |
| Potassium | 39-2 | 453780 | 462595 | 455673 | 457349 | 1.01 | cps |
| Rhodium | 103-1 | 16141947 | 16306370 | 16649311 | 16365876 | 1.58 | cps |
| Rhodium | 103-2 | 6605576 | 6607659 | 6597630 | 6603622 | 0.08 | cps |
| Scandium | 45-1 | 12434122 | 12442557 | 12440452 | 12439044 | 0.04 | cps |
| Scandium | 45-2 | 249304 | 253295 | 247147 | 249915 | 1.25 | cps |
| Selenium | 82-1 | 100 | 63 | 43 | 69 | 41.73 | cps |
| Selenium | 77-2 | 7 | 13 | 3 | 8 | 65.47 | cps |
| Selenium | 78-2 | 17 | 13 | 27 | 19 | 36.75 | cps |
| Silicon | 28-1 | 34251530 | 34126250 | 35158341 | 34512041 | 1.63 | cps |
| Silver | 107-1 | 433 | 413 | 487 | 444 | 8.53 | cps |
| Silver | 109-1 | 283 | 270 | 333 | 296 | 11.30 | cps |
| Sodium | 23-2 | 1115256 | 1118072 | 1074416 | 1102581 | 2.22 | cps |
| Strontium | 86-1 | 320835 | 327488 | 319126 | 322483 | 1.37 | cps |
| Strontium | 88-1 | 2963257 | 2905168 | 2912477 | 2926967 | 1.08 | cps |
| Sulfur | 34-1 | 1866184 | 1861613 | 1891658 | 1873152 | 0.86 | cps |
| Terbium | 159-1 | 21062093 | 20896653 | 21718416 | 21225721 | 2.05 | cps |
| Terbium | 159-2 | 7353496 | 7427895 | 7240847 | 7340746 | 1.28 | cps |
| Thallium | 203-1 | 783 | 710 | 717 | 737 | 5.51 | cps |
| Thallium | 205-1 | 1867 | 1873 | 1827 | 1856 | 1.36 | cps |
| Tin | 118-1 | 5545 | 5428 | 5911 | 5628 | 4.48 | cps |
| Titanium | 47-1 | 13387 | 15110 | 14607 | 14368 | 6.17 | cps |
| Uranium | 238-1 | 5688 | 5685 | 5811 | 5728 | 1.26 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:34:29 | DataFile Name : | 117AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10467 | 10491 | 10297 | 10418 | 1.01 | cps |
| Ytterbium | 172-1 | 1287 | 1243 | 1233 | 1255 | 2.26 | cps |
| Ytterbium | 172-2 | 497 | 557 | 560 | 538 | 6.63 | cps |
| Ytterbium | 176-1 | 2814 | 2807 | 2650 | 2757 | 3.35 | cps |
| Ytterbium | 176-2 | 600 | 660 | 667 | 642 | 5.72 | cps |
| Yttrium | 89-1 | 30860784 | 30844259 | 30363790 | 30689611 | 0.92 | cps |
| Yttrium | 89-2 | 2275858 | 2311930 | 2250056 | 2279281 | 1.36 | cps |
| Zinc | 66-2 | 3074 | 3170 | 3147 | 3130 | 1.61 | cps |
| Zirconium | 90-1 | 11558 | 11328 | 11602 | 11496 | 1.28 | cps |
| Zirconium | 91-1 | 2697 | 2947 | 2570 | 2738 | 7.00 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 45418 | 47289 | 46288 | 46332 | 2.02 | cps |
| Antimony | 121-1 | 1140 | 1203 | 1083 | 1142 | 5.26 | cps |
| Arsenic | 75-2 | 1930 | 1793 | 1927 | 1883 | 4.14 | cps |
| Barium | 135-1 | 169967 | 174117 | 171285 | 171790 | 1.23 | cps |
| Barium | 137-1 | 298970 | 301403 | 303413 | 301262 | 0.74 | cps |
| Beryllium | 9-1 | 1384 | 1322 | 1336 | 1347 | 2.39 | cps |
| Bismuth | 209-1 | 12679488 | 12595211 | 12621558 | 12632086 | 0.34 | cps |
| Bismuth | 209-2 | 5607968 | 5547928 | 5565648 | 5573848 | 0.55 | cps |
| Bromine | 81-1 | 17922 | 18325 | 18656 | 18301 | 2.01 | cps |
| Cadmium | 108-1 | 53 | 107 | 210 | 123 | 64.60 | cps |
| Cadmium | 106-1 | 9263 | 8840 | 9033 | 9045 | 2.34 | cps |
| Cadmium | 111-1 | 6497 | 6150 | 6233 | 6293 | 2.88 | cps |
| Calcium | 43-1 | 866826 | 890474 | 886791 | 881364 | 1.44 | cps |
| Calcium | 44-1 | 14386109 | 14814393 | 14629615 | 14610039 | 1.47 | cps |
| Carbon | 12-1 | 12177418 | 13671333 | 14010589 | 13286446 | 7.34 | cps |
| Carbon | 12-2 | 90406 | 92515 | 92089 | 91670 | 1.22 | cps |
| Chlorine | 35-1 | 802951 | 829636 | 851180 | 827922 | 2.92 | cps |
| Chlorine | 35-2 | 3524 | 3504 | 3684 | 3570 | 2.76 | cps |
| Chromium | 52-2 | 8779 | 8653 | 8526 | 8653 | 1.47 | cps |
| Cobalt | 59-2 | 60638 | 61033 | 60226 | 60633 | 0.67 | cps |
| Copper | 63-2 | 9920 | 10863 | 10057 | 10280 | 4.95 | cps |
| Dysprosium | 156-1 | 4501 | 4511 | 4357 | 4456 | 1.93 | cps |
| Dysprosium | 156-2 | 1567 | 1413 | 1537 | 1506 | 5.40 | cps |
| Erbium | 164-1 | 4298 | 3417 | 3400 | 3705 | 13.86 | cps |
| Erbium | 164-2 | 1043 | 1087 | 1313 | 1148 | 12.63 | cps |
| Gadolinium | 160-1 | 3961 | 4094 | 3717 | 3924 | 4.87 | cps |
| Gadolinium | 160-2 | 1780 | 1817 | 1773 | 1790 | 1.30 | cps |
| Holmium | 165-1 | 20952507 | 20708459 | 20453703 | 20704890 | 1.20 | cps |
| Holmium | 165-2 | 7685150 | 7577626 | 7583741 | 7615506 | 0.79 | cps |
| Indium | 115-1 | 17231206 | 16984474 | 17088786 | 17101489 | 0.72 | cps |
| Indium | 115-2 | 1796213 | 1768074 | 1793797 | 1786028 | 0.87 | cps |
| Iron | 54-2 | 6690325 | 6746330 | 6680166 | 6705607 | 0.53 | cps |
| Iron | 56-2 | 123632645 | 121303942 | 120316172 | 121750919 | 1.40 | cps |
| Iron | 57-2 | 3108072 | 3099752 | 3125146 | 3110990 | 0.42 | cps |
| Krypton | 83-1 | 277 | 250 | 290 | 272 | 7.48 | cps |
| Lead | 206-1 | 6545 | 6345 | 6729 | 6540 | 2.94 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5278 | 5291 | 5408 | 5326 | 1.34 | cps |
| Lead | 208-1 | 26250 | 26012 | 26397 | 26220 | 0.74 | cps |
| Lithium | 6-1 | 10039206 | 9724731 | 9665886 | 9809941 | 2.05 | cps |
| Magnesium | 24-2 | 883378 | 880838 | 875095 | 879771 | 0.48 | cps |
| Manganese | 55-2 | 1973600 | 1941288 | 1886546 | 1933811 | 2.28 | cps |
| Molybdenum | 94-1 | 8493 | 19157 | 8393 | 12014 | 51.49 | cps |
| Molybdenum | 95-1 | 2974 | 2910 | 2924 | 2936 | 1.14 | cps |
| Molybdenum | 96-1 | 5515 | 4584 | 6508 | 5536 | 17.38 | cps |
| Molybdenum | 97-1 | 1773 | 1760 | 2017 | 1850 | 7.81 | cps |
| Molybdenum | 98-1 | 4604 | 4451 | 4397 | 4484 | 2.39 | cps |
| Neodymium | 150-1 | 6905 | 7422 | 7426 | 7251 | 4.13 | cps |
| Neodymium | 150-2 | 1807 | 1787 | 1753 | 1782 | 1.51 | cps |
| Nickel | 60-2 | 5755 | 5881 | 6205 | 5947 | 3.91 | cps |
| Phosphorus | 31-2 | 207 | 180 | 187 | 191 | 7.26 | cps |
| Potassium | 39-2 | 464375 | 463398 | 470787 | 466187 | 0.86 | cps |
| Rhodium | 103-1 | 16735737 | 15836006 | 15808999 | 16126914 | 3.27 | cps |
| Rhodium | 103-2 | 6702034 | 6500979 | 6494958 | 6565991 | 1.79 | cps |
| Scandium | 45-1 | 12778099 | 12919232 | 12459202 | 12718844 | 1.85 | cps |
| Scandium | 45-2 | 245205 | 248761 | 249256 | 247741 | 0.89 | cps |
| Selenium | 82-1 | 23 | 83 | 83 | 63 | 54.69 | cps |
| Selenium | 77-2 | 13 | 10 | 27 | 17 | 52.93 | cps |
| Selenium | 78-2 | 10 | 23 | 20 | 18 | 39.03 | cps |
| Silicon | 28-1 | 40405990 | 40968046 | 41704489 | 41026175 | 1.59 | cps |
| Silver | 107-1 | 420 | 417 | 380 | 406 | 5.47 | cps |
| Silver | 109-1 | 253 | 247 | 200 | 233 | 12.46 | cps |
| Sodium | 23-2 | 1123277 | 1120430 | 1127429 | 1123712 | 0.31 | cps |
| Strontium | 86-1 | 318609 | 320085 | 323140 | 320611 | 0.72 | cps |
| Strontium | 88-1 | 2913862 | 2896640 | 2868154 | 2892885 | 0.80 | cps |
| Sulfur | 34-1 | 1872855 | 1879216 | 1866412 | 1872828 | 0.34 | cps |
| Terbium | 159-1 | 21911164 | 20683378 | 20691031 | 21095191 | 3.35 | cps |
| Terbium | 159-2 | 7273457 | 7330740 | 7241377 | 7281858 | 0.62 | cps |
| Thallium | 203-1 | 680 | 600 | 700 | 660 | 8.02 | cps |
| Thallium | 205-1 | 1753 | 1580 | 1723 | 1686 | 5.50 | cps |
| Tin | 118-1 | 5771 | 5698 | 5938 | 5802 | 2.12 | cps |
| Titanium | 47-1 | 72652 | 77852 | 79760 | 76755 | 4.79 | cps |
| Uranium | 238-1 | 5671 | 6068 | 6700 | 6146 | 8.44 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02DUP | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:37:44 | DataFile Name : | 118AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 12222 | 12275 | 11621 | 12040 | 3.02 | cps |
| Ytterbium | 172-1 | 1270 | 1283 | 1627 | 1393 | 14.51 | cps |
| Ytterbium | 172-2 | 607 | 583 | 643 | 611 | 4.95 | cps |
| Ytterbium | 176-1 | 2890 | 2750 | 2860 | 2834 | 2.60 | cps |
| Ytterbium | 176-2 | 670 | 703 | 1067 | 813 | 27.07 | cps |
| Yttrium | 89-1 | 32010645 | 30603868 | 30390041 | 31001518 | 2.84 | cps |
| Yttrium | 89-2 | 2292528 | 2269765 | 2261508 | 2274600 | 0.71 | cps |
| Zinc | 66-2 | 3187 | 3304 | 3314 | 3268 | 2.16 | cps |
| Zirconium | 90-1 | 26622 | 21586 | 23899 | 24036 | 10.49 | cps |
| Zirconium | 91-1 | 4851 | 6384 | 8068 | 6435 | 25.01 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4765 | 4064 | 3974 | 4268 | 10.14 | cps |
| Antimony | 121-1 | 367 | 377 | 337 | 360 | 5.78 | cps |
| Arsenic | 75-2 | 353 | 417 | 340 | 370 | 11.07 | cps |
| Barium | 135-1 | 33381 | 33174 | 33996 | 33517 | 1.28 | cps |
| Barium | 137-1 | 57867 | 59396 | 57810 | 58358 | 1.54 | cps |
| Beryllium | 9-1 | 1084 | 1104 | 1040 | 1076 | 3.03 | cps |
| Bismuth | 209-1 | 12932278 | 12721450 | 12765641 | 12806456 | 0.87 | cps |
| Bismuth | 209-2 | 5554157 | 5506199 | 5577850 | 5546068 | 0.66 | cps |
| Bromine | 81-1 | 9096 | 8990 | 9073 | 9053 | 0.62 | cps |
| Cadmium | 108-1 | 43 | 20 | 30 | 31 | 37.62 | cps |
| Cadmium | 106-1 | 8609 | 8810 | 8803 | 8741 | 1.30 | cps |
| Cadmium | 111-1 | 6033 | 6193 | 6191 | 6139 | 1.49 | cps |
| Calcium | 43-1 | 173637 | 176499 | 176353 | 175496 | 0.92 | cps |
| Calcium | 44-1 | 2941316 | 2992232 | 2957522 | 2963690 | 0.88 | cps |
| Carbon | 12-1 | 7472909 | 7545906 | 7609239 | 7542685 | 0.90 | cps |
| Carbon | 12-2 | 46169 | 46497 | 46176 | 46280 | 0.40 | cps |
| Chlorine | 35-1 | 558854 | 551197 | 542913 | 550988 | 1.45 | cps |
| Chlorine | 35-2 | 2047 | 2044 | 2144 | 2078 | 2.73 | cps |
| Chromium | 52-2 | 3050 | 3024 | 3440 | 3172 | 7.36 | cps |
| Cobalt | 59-2 | 11802 | 12362 | 12089 | 12084 | 2.32 | cps |
| Copper | 63-2 | 5094 | 5101 | 4861 | 5019 | 2.72 | cps |
| Dysprosium | 156-1 | 790 | 820 | 793 | 801 | 2.05 | cps |
| Dysprosium | 156-2 | 373 | 310 | 253 | 312 | 19.23 | cps |
| Erbium | 164-1 | 717 | 757 | 710 | 728 | 3.47 | cps |
| Erbium | 164-2 | 287 | 293 | 290 | 290 | 1.15 | cps |
| Gadolinium | 160-1 | 840 | 870 | 877 | 862 | 2.26 | cps |
| Gadolinium | 160-2 | 333 | 343 | 293 | 323 | 8.18 | cps |
| Holmium | 165-1 | 20804734 | 20239151 | 20462629 | 20502171 | 1.39 | cps |
| Holmium | 165-2 | 7411530 | 7416369 | 7469291 | 7432396 | 0.43 | cps |
| Indium | 115-1 | 17731850 | 17100475 | 16997284 | 17276537 | 2.30 | cps |
| Indium | 115-2 | 1751452 | 1736016 | 1751801 | 1746423 | 0.52 | cps |
| Iron | 54-2 | 1283690 | 1295595 | 1300306 | 1293197 | 0.66 | cps |
| Iron | 56-2 | 24596722 | 24559919 | 24530237 | 24562293 | 0.14 | cps |
| Iron | 57-2 | 586608 | 596668 | 597993 | 593756 | 1.05 | cps |
| Krypton | 83-1 | 280 | 340 | 307 | 309 | 9.73 | cps |
| Lead | 206-1 | 3177 | 3044 | 2970 | 3064 | 3.42 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2497 | 2657 | 2580 | 2578 | 3.10 | cps |
| Lead | 208-1 | 12116 | 12222 | 11776 | 12038 | 1.94 | cps |
| Lithium | 6-1 | 10144239 | 9953432 | 9866511 | 9988061 | 1.42 | cps |
| Magnesium | 24-2 | 178458 | 177908 | 179432 | 178599 | 0.43 | cps |
| Manganese | 55-2 | 367593 | 376246 | 370992 | 371610 | 1.17 | cps |
| Molybdenum | 94-1 | 1623 | 1977 | 1713 | 1771 | 10.38 | cps |
| Molybdenum | 95-1 | 837 | 813 | 843 | 831 | 1.90 | cps |
| Molybdenum | 96-1 | 1163 | 1180 | 1050 | 1131 | 6.25 | cps |
| Molybdenum | 97-1 | 513 | 540 | 490 | 514 | 4.86 | cps |
| Molybdenum | 98-1 | 1403 | 1280 | 1337 | 1340 | 4.61 | cps |
| Neodymium | 150-1 | 1307 | 1270 | 1313 | 1297 | 1.80 | cps |
| Neodymium | 150-2 | 303 | 377 | 290 | 323 | 14.43 | cps |
| Nickel | 60-2 | 2674 | 2554 | 2614 | 2614 | 2.30 | cps |
| Phosphorus | 31-2 | 77 | 120 | 97 | 98 | 22.18 | cps |
| Potassium | 39-2 | 107285 | 108628 | 109071 | 108328 | 0.86 | cps |
| Rhodium | 103-1 | 16606072 | 16432750 | 16054148 | 16364323 | 1.72 | cps |
| Rhodium | 103-2 | 6355776 | 6510518 | 6560856 | 6475717 | 1.65 | cps |
| Scandium | 45-1 | 12869395 | 12478416 | 12711420 | 12686410 | 1.55 | cps |
| Scandium | 45-2 | 245744 | 247733 | 248586 | 247355 | 0.59 | cps |
| Selenium | 82-1 | -37 | -83 | -7 | -42 | -91.51 | cps |
| Selenium | 77-2 | 3 | 3 | 7 | 4 | 43.40 | cps |
| Selenium | 78-2 | 10 | 13 | 23 | 16 | 44.60 | cps |
| Silicon | 28-1 | 7605174 | 7622300 | 7629499 | 7618991 | 0.16 | cps |
| Silver | 107-1 | 323 | 367 | 360 | 350 | 6.67 | cps |
| Silver | 109-1 | 130 | 203 | 140 | 158 | 25.21 | cps |
| Sodium | 23-2 | 280730 | 280429 | 282137 | 281098 | 0.32 | cps |
| Strontium | 86-1 | 62633 | 64062 | 63085 | 63260 | 1.16 | cps |
| Strontium | 88-1 | 540444 | 553537 | 545952 | 546644 | 1.20 | cps |
| Sulfur | 34-1 | 1131723 | 1139820 | 1110895 | 1127479 | 1.32 | cps |
| Terbium | 159-1 | 21497200 | 20776869 | 21005012 | 21093027 | 1.75 | cps |
| Terbium | 159-2 | 7242362 | 7141338 | 7293604 | 7225768 | 1.07 | cps |
| Thallium | 203-1 | 490 | 587 | 647 | 574 | 13.76 | cps |
| Thallium | 205-1 | 1277 | 1277 | 1383 | 1312 | 4.69 | cps |
| Tin | 118-1 | 2560 | 2924 | 2570 | 2685 | 7.71 | cps |
| Titanium | 47-1 | 3277 | 4082 | 3461 | 3607 | 11.70 | cps |
| Uranium | 238-1 | 1177 | 1087 | 1117 | 1127 | 4.07 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-02-06 18:40:56 | DataFile Name : | 119AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2237 | 2060 | 1947 | 2081 | 7.02 | cps |
| Ytterbium | 172-1 | 337 | 290 | 313 | 313 | 7.45 | cps |
| Ytterbium | 172-2 | 137 | 163 | 147 | 149 | 9.05 | cps |
| Ytterbium | 176-1 | 2234 | 2334 | 2160 | 2242 | 3.88 | cps |
| Ytterbium | 176-2 | 363 | 430 | 357 | 383 | 10.58 | cps |
| Yttrium | 89-1 | 30981195 | 30280863 | 30726580 | 30662880 | 1.16 | cps |
| Yttrium | 89-2 | 2199884 | 2275325 | 2236489 | 2237232 | 1.69 | cps |
| Zinc | 66-2 | 937 | 997 | 927 | 953 | 3.97 | cps |
| Zirconium | 90-1 | 3154 | 3231 | 3370 | 3252 | 3.38 | cps |
| Zirconium | 91-1 | 687 | 720 | 2818 | 1408 | 86.69 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 711930 | 704652 | 693853 | 703478 | 1.29 | cps |
| Antimony | 121-1 | 8544787 | 8604655 | 8597067 | 8582170 | 0.38 | cps |
| Arsenic | 75-2 | 1673 | 1593 | 1737 | 1668 | 4.31 | cps |
| Barium | 135-1 | 9176916 | 9173814 | 9149774 | 9166835 | 0.16 | cps |
| Barium | 137-1 | 15610290 | 16076222 | 15869198 | 15851903 | 1.47 | cps |
| Beryllium | 9-1 | 3171188 | 3293487 | 3229472 | 3231383 | 1.89 | cps |
| Bismuth | 209-1 | 12051891 | 11989426 | 11908531 | 11983283 | 0.60 | cps |
| Bismuth | 209-2 | 5086287 | 5210607 | 5610196 | 5302363 | 5.16 | cps |
| Bromine | 81-1 | 19807 | 22047 | 22638 | 21498 | 6.95 | cps |
| Cadmium | 108-1 | 152844 | 155647 | 154481 | 154324 | 0.91 | cps |
| Cadmium | 106-1 | 238862 | 243886 | 244246 | 242331 | 1.24 | cps |
| Cadmium | 111-1 | 2073766 | 2091210 | 2068752 | 2077909 | 0.57 | cps |
| Calcium | 43-1 | 3777627 | 3776788 | 3772193 | 3775536 | 0.08 | cps |
| Calcium | 44-1 | 60378772 | 60367174 | 60881129 | 60542359 | 0.48 | cps |
| Carbon | 12-1 | 10713394 | 11819554 | 12385382 | 11639443 | 7.31 | cps |
| Carbon | 12-2 | 81869 | 82597 | 83425 | 82630 | 0.94 | cps |
| Chlorine | 35-1 | 69993797 | 75696797 | 78650435 | 74780343 | 5.88 | cps |
| Chlorine | 35-2 | 339046 | 339845 | 341517 | 340136 | 0.37 | cps |
| Chromium | 52-2 | 2005385 | 2032396 | 1971772 | 2003184 | 1.52 | cps |
| Cobalt | 59-2 | 3946468 | 3954728 | 3856443 | 3919213 | 1.39 | cps |
| Copper | 63-2 | 29014180 | 28687833 | 28860755 | 28854256 | 0.57 | cps |
| Dysprosium | 156-1 | 3794 | 3957 | 3984 | 3912 | 2.63 | cps |
| Dysprosium | 156-2 | 1417 | 1337 | 1470 | 1408 | 4.77 | cps |
| Erbium | 164-1 | 3064 | 2844 | 3074 | 2994 | 4.34 | cps |
| Erbium | 164-2 | 1073 | 1080 | 1070 | 1075 | 0.47 | cps |
| Gadolinium | 160-1 | 3450 | 3624 | 3694 | 3589 | 3.49 | cps |
| Gadolinium | 160-2 | 1600 | 1510 | 1677 | 1596 | 5.23 | cps |
| Holmium | 165-1 | 20477652 | 20305507 | 20182528 | 20321896 | 0.73 | cps |
| Holmium | 165-2 | 7155329 | 7396236 | 7926721 | 7492762 | 5.27 | cps |
| Indium | 115-1 | 16529267 | 16436425 | 16289847 | 16418513 | 0.74 | cps |
| Indium | 115-2 | 1639105 | 1669782 | 1755450 | 1688112 | 3.57 | cps |
| Iron | 54-2 | 9700914 | 9730961 | 9592089 | 9674654 | 0.76 | cps |
| Iron | 56-2 | 178348917 | 176984131 | 173055157 | 176129402 | 1.56 | cps |
| Iron | 57-2 | 4428316 | 4432162 | 4391995 | 4417491 | 0.50 | cps |
| Krypton | 83-1 | 303 | 320 | 267 | 297 | 9.20 | cps |
| Lead | 206-1 | 31257913 | 31209400 | 31580940 | 31349418 | 0.64 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26803170 | 27232350 | 27361024 | 27132181 | 1.08 | cps |
| Lead | 208-1 | 122772002 | 124980044 | 126247021 | 124666356 | 1.41 | cps |
| Lithium | 6-1 | 9859708 | 9765901 | 9552391 | 9726000 | 1.62 | cps |
| Magnesium | 24-2 | 14165760 | 13939724 | 13941164 | 14015550 | 0.93 | cps |
| Manganese | 55-2 | 9863465 | 9850447 | 9728544 | 9814152 | 0.76 | cps |
| Molybdenum | 94-1 | 14353911 | 14729246 | 14465408 | 14516188 | 1.33 | cps |
| Molybdenum | 95-1 | 15897985 | 15709830 | 15847715 | 15818510 | 0.62 | cps |
| Molybdenum | 96-1 | 17808308 | 17968346 | 17910000 | 17895551 | 0.45 | cps |
| Molybdenum | 97-1 | 9753468 | 9879339 | 9800859 | 9811222 | 0.65 | cps |
| Molybdenum | 98-1 | 25235256 | 25933350 | 25568550 | 25579052 | 1.37 | cps |
| Neodymium | 150-1 | 6535 | 6428 | 6488 | 6484 | 0.83 | cps |
| Neodymium | 150-2 | 1370 | 1463 | 1443 | 1426 | 3.45 | cps |
| Nickel | 60-2 | 1003804 | 1012450 | 998278 | 1004844 | 0.71 | cps |
| Phosphorus | 31-2 | 210 | 190 | 170 | 190 | 10.53 | cps |
| Potassium | 39-2 | 3980808 | 3933893 | 3979627 | 3964776 | 0.67 | cps |
| Rhodium | 103-1 | 15465832 | 15534479 | 15259212 | 15419841 | 0.93 | cps |
| Rhodium | 103-2 | 6011741 | 6137078 | 6615570 | 6254797 | 5.09 | cps |
| Scandium | 45-1 | 12503580 | 12513769 | 12343739 | 12453696 | 0.77 | cps |
| Scandium | 45-2 | 240865 | 240071 | 260201 | 247046 | 4.61 | cps |
| Selenium | 82-1 | 127014 | 129942 | 129635 | 128864 | 1.25 | cps |
| Selenium | 77-2 | 2480 | 2314 | 2397 | 2397 | 3.48 | cps |
| Selenium | 78-2 | 8122 | 7612 | 7889 | 7874 | 3.24 | cps |
| Silicon | 28-1 | 31289713 | 31280500 | 31718346 | 31429520 | 0.80 | cps |
| Silver | 107-1 | 1843294 | 1880714 | 1908635 | 1877548 | 1.75 | cps |
| Silver | 109-1 | 1742551 | 1764428 | 1742658 | 1749879 | 0.72 | cps |
| Sodium | 23-2 | 27954680 | 27844790 | 27514195 | 27771222 | 0.83 | cps |
| Strontium | 86-1 | 3656004 | 3751582 | 3665936 | 3691174 | 1.42 | cps |
| Strontium | 88-1 | 31009335 | 31776831 | 31733576 | 31506581 | 1.37 | cps |
| Sulfur | 34-1 | 1784457 | 1779907 | 1771881 | 1778748 | 0.36 | cps |
| Terbium | 159-1 | 20810940 | 20633188 | 20661293 | 20701807 | 0.46 | cps |
| Terbium | 159-2 | 7022959 | 6977977 | 7630290 | 7210409 | 5.05 | cps |
| Thallium | 203-1 | 7565799 | 7541093 | 7585873 | 7564255 | 0.30 | cps |
| Thallium | 205-1 | 17833898 | 18046549 | 18135609 | 18005352 | 0.86 | cps |
| Tin | 118-1 | 6185457 | 6259693 | 6267112 | 6237421 | 0.72 | cps |
| Titanium | 47-1 | 17700 | 17598 | 16533 | 17277 | 3.74 | cps |
| Uranium | 238-1 | 23459649 | 24257549 | 24761122 | 24159440 | 2.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MS | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:44:15 | DataFile Name : | 120AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1661595 | 1650397 | 1643458 | 1651817 | 0.55 | cps |
| Ytterbium | 172-1 | 1463 | 1490 | 1460 | 1471 | 1.12 | cps |
| Ytterbium | 172-2 | 620 | 620 | 650 | 630 | 2.75 | cps |
| Ytterbium | 176-1 | 36664 | 37423 | 38025 | 37371 | 1.82 | cps |
| Ytterbium | 176-2 | 13534 | 14031 | 13794 | 13786 | 1.80 | cps |
| Yttrium | 89-1 | 30504624 | 30244353 | 29672505 | 30140494 | 1.41 | cps |
| Yttrium | 89-2 | 2173865 | 2187804 | 2392682 | 2251450 | 5.44 | cps |
| Zinc | 66-2 | 3160347 | 3136596 | 3073604 | 3123516 | 1.44 | cps |
| Zirconium | 90-1 | 14878016 | 15233619 | 14981724 | 15031120 | 1.22 | cps |
| Zirconium | 91-1 | 3398818 | 3417140 | 3323347 | 3379768 | 1.47 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 712805 | 707613 | 704288 | 708235 | 0.61 | cps |
| Antimony | 121-1 | 8647073 | 8727697 | 8689597 | 8688122 | 0.46 | cps |
| Arsenic | 75-2 | 1653 | 1603 | 1797 | 1685 | 5.96 | cps |
| Barium | 135-1 | 9136778 | 9302045 | 9175482 | 9204768 | 0.94 | cps |
| Barium | 137-1 | 15794470 | 16199264 | 15851240 | 15948325 | 1.37 | cps |
| Beryllium | 9-1 | 3223798 | 3267287 | 3213123 | 3234736 | 0.89 | cps |
| Bismuth | 209-1 | 11846516 | 11959230 | 12098583 | 11968110 | 1.06 | cps |
| Bismuth | 209-2 | 5170277 | 5176506 | 5262763 | 5203182 | 0.99 | cps |
| Bromine | 81-1 | 17061 | 18112 | 18703 | 17958 | 4.63 | cps |
| Cadmium | 108-1 | 157009 | 157232 | 157863 | 157368 | 0.28 | cps |
| Cadmium | 106-1 | 243223 | 245152 | 248116 | 245497 | 1.00 | cps |
| Cadmium | 111-1 | 2121497 | 2133304 | 2125644 | 2126815 | 0.28 | cps |
| Calcium | 43-1 | 3694068 | 3725120 | 3718582 | 3712590 | 0.44 | cps |
| Calcium | 44-1 | 60339111 | 59990477 | 60139931 | 60156506 | 0.29 | cps |
| Carbon | 12-1 | 11169025 | 12255775 | 12372621 | 11932474 | 5.56 | cps |
| Carbon | 12-2 | 83988 | 83167 | 84082 | 83746 | 0.60 | cps |
| Chlorine | 35-1 | 77683517 | 82529945 | 84326939 | 81513467 | 4.22 | cps |
| Chlorine | 35-2 | 353539 | 358753 | 359056 | 357116 | 0.87 | cps |
| Chromium | 52-2 | 2025318 | 2055654 | 2061919 | 2047630 | 0.96 | cps |
| Cobalt | 59-2 | 3943611 | 3951407 | 3915496 | 3936838 | 0.48 | cps |
| Copper | 63-2 | 29347480 | 28788594 | 29171138 | 29102404 | 0.98 | cps |
| Dysprosium | 156-1 | 3971 | 3974 | 3881 | 3942 | 1.34 | cps |
| Dysprosium | 156-2 | 1437 | 1297 | 1247 | 1327 | 7.42 | cps |
| Erbium | 164-1 | 3157 | 3174 | 3184 | 3172 | 0.42 | cps |
| Erbium | 164-2 | 1007 | 1113 | 1060 | 1060 | 5.03 | cps |
| Gadolinium | 160-1 | 3651 | 3884 | 3781 | 3772 | 3.10 | cps |
| Gadolinium | 160-2 | 1673 | 1610 | 1640 | 1641 | 1.93 | cps |
| Holmium | 165-1 | 20121167 | 20048198 | 20447146 | 20205504 | 1.05 | cps |
| Holmium | 165-2 | 7463731 | 7306592 | 7348726 | 7373016 | 1.10 | cps |
| Indium | 115-1 | 16271591 | 16329799 | 16665351 | 16422247 | 1.29 | cps |
| Indium | 115-2 | 1707836 | 1652570 | 1646849 | 1669085 | 2.02 | cps |
| Iron | 54-2 | 9596859 | 9594719 | 9610155 | 9600577 | 0.09 | cps |
| Iron | 56-2 | 175751017 | 175754857 | 174379524 | 175295133 | 0.45 | cps |
| Iron | 57-2 | 4412610 | 4332694 | 4374229 | 4373178 | 0.91 | cps |
| Krypton | 83-1 | 273 | 290 | 323 | 296 | 8.61 | cps |
| Lead | 206-1 | 31546452 | 31922815 | 32054659 | 31841308 | 0.83 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27097317 | 27716055 | 27701680 | 27505017 | 1.28 | cps |
| Lead | 208-1 | 124462775 | 127575061 | 127183447 | 126407095 | 1.34 | cps |
| Lithium | 6-1 | 9646449 | 9582993 | 9741999 | 9657147 | 0.83 | cps |
| Magnesium | 24-2 | 14003447 | 14306101 | 13804927 | 14038158 | 1.80 | cps |
| Manganese | 55-2 | 9883877 | 9931763 | 9851995 | 9889212 | 0.41 | cps |
| Molybdenum | 94-1 | 14456544 | 14555748 | 14563900 | 14525397 | 0.41 | cps |
| Molybdenum | 95-1 | 15915112 | 15737361 | 15725256 | 15792576 | 0.67 | cps |
| Molybdenum | 96-1 | 17937700 | 17890260 | 17831816 | 17886592 | 0.30 | cps |
| Molybdenum | 97-1 | 9584707 | 9688768 | 9781698 | 9685058 | 1.02 | cps |
| Molybdenum | 98-1 | 25223974 | 25284969 | 25588837 | 25365927 | 0.77 | cps |
| Neodymium | 150-1 | 6275 | 6602 | 6448 | 6442 | 2.54 | cps |
| Neodymium | 150-2 | 1733 | 1570 | 1593 | 1632 | 5.41 | cps |
| Nickel | 60-2 | 1016293 | 1008852 | 1011019 | 1012054 | 0.38 | cps |
| Phosphorus | 31-2 | 167 | 147 | 140 | 151 | 9.18 | cps |
| Potassium | 39-2 | 3946486 | 3994482 | 3948446 | 3963138 | 0.69 | cps |
| Rhodium | 103-1 | 15087524 | 15166981 | 15513641 | 15256049 | 1.49 | cps |
| Rhodium | 103-2 | 6221670 | 6165853 | 6132843 | 6173455 | 0.73 | cps |
| Scandium | 45-1 | 12405548 | 12226254 | 12420579 | 12350793 | 0.88 | cps |
| Scandium | 45-2 | 244197 | 240209 | 243677 | 242695 | 0.89 | cps |
| Selenium | 82-1 | 129403 | 131610 | 131318 | 130777 | 0.92 | cps |
| Selenium | 77-2 | 2244 | 2290 | 2150 | 2228 | 3.20 | cps |
| Selenium | 78-2 | 7972 | 7585 | 7639 | 7732 | 2.71 | cps |
| Silicon | 28-1 | 31010268 | 31612998 | 31390258 | 31337841 | 0.97 | cps |
| Silver | 107-1 | 1915913 | 1871560 | 1904819 | 1897430 | 1.22 | cps |
| Silver | 109-1 | 1789269 | 1781083 | 1776845 | 1782399 | 0.35 | cps |
| Sodium | 23-2 | 27358661 | 28312030 | 28071534 | 27914075 | 1.78 | cps |
| Strontium | 86-1 | 3684254 | 3762094 | 3763838 | 3736729 | 1.22 | cps |
| Strontium | 88-1 | 31283910 | 32283871 | 32219205 | 31928996 | 1.75 | cps |
| Sulfur | 34-1 | 1716693 | 1735754 | 1728266 | 1726904 | 0.56 | cps |
| Terbium | 159-1 | 20505009 | 20599824 | 20787876 | 20630903 | 0.70 | cps |
| Terbium | 159-2 | 7234624 | 7043161 | 7212453 | 7163413 | 1.46 | cps |
| Thallium | 203-1 | 7693141 | 7782134 | 7786864 | 7754046 | 0.68 | cps |
| Thallium | 205-1 | 18267175 | 18533363 | 18809608 | 18536715 | 1.46 | cps |
| Tin | 118-1 | 6174383 | 6248530 | 6215840 | 6212918 | 0.60 | cps |
| Titanium | 47-1 | 17284 | 21699 | 22913 | 20632 | 14.36 | cps |
| Uranium | 238-1 | 24003872 | 24778160 | 24480225 | 24420753 | 1.60 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02MSD | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:46:59 | DataFile Name : | 121AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1633328 | 1672164 | 1664825 | 1656772 | 1.25 | cps |
| Ytterbium | 172-1 | 1513 | 1457 | 1443 | 1471 | 2.53 | cps |
| Ytterbium | 172-2 | 653 | 623 | 693 | 657 | 5.35 | cps |
| Ytterbium | 176-1 | 38111 | 39014 | 38777 | 38634 | 1.21 | cps |
| Ytterbium | 176-2 | 13781 | 13597 | 13884 | 13754 | 1.06 | cps |
| Yttrium | 89-1 | 29417972 | 29801319 | 30112070 | 29777120 | 1.17 | cps |
| Yttrium | 89-2 | 2226967 | 2158101 | 2141181 | 2175416 | 2.09 | cps |
| Zinc | 66-2 | 3146290 | 3145686 | 3089939 | 3127305 | 1.03 | cps |
| Zirconium | 90-1 | 14922144 | 14975630 | 15025046 | 14974273 | 0.34 | cps |
| Zirconium | 91-1 | 3469861 | 3414927 | 3388639 | 3424476 | 1.21 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 741316 | 745071 | 743925 | 743437 | 0.26 | cps |
| Antimony | 121-1 | 8615779 | 8791368 | 8767378 | 8724842 | 1.09 | cps |
| Arsenic | 75-2 | 1593 | 1583 | 1640 | 1606 | 1.88 | cps |
| Barium | 135-1 | 9090670 | 9315401 | 9237168 | 9214413 | 1.24 | cps |
| Barium | 137-1 | 15957674 | 16284347 | 16000144 | 16080722 | 1.10 | cps |
| Beryllium | 9-1 | 3185658 | 3265187 | 3282046 | 3244297 | 1.59 | cps |
| Bismuth | 209-1 | 12367986 | 12068758 | 12013193 | 12149979 | 1.57 | cps |
| Bismuth | 209-2 | 5283283 | 5313934 | 5293138 | 5296785 | 0.30 | cps |
| Bromine | 81-1 | 16443 | 17558 | 18355 | 17452 | 5.50 | cps |
| Cadmium | 108-1 | 155965 | 158813 | 159531 | 158103 | 1.19 | cps |
| Cadmium | 106-1 | 244078 | 248182 | 248614 | 246958 | 1.01 | cps |
| Cadmium | 111-1 | 2131905 | 2145889 | 2115413 | 2131069 | 0.72 | cps |
| Calcium | 43-1 | 3676593 | 3792307 | 3787823 | 3752241 | 1.75 | cps |
| Calcium | 44-1 | 60214836 | 61541957 | 60393441 | 60716745 | 1.19 | cps |
| Carbon | 12-1 | 10955643 | 12061481 | 12474022 | 11830382 | 6.64 | cps |
| Carbon | 12-2 | 83512 | 84628 | 85255 | 84465 | 1.05 | cps |
| Chlorine | 35-1 | 78598941 | 84064382 | 85038499 | 82567274 | 4.20 | cps |
| Chlorine | 35-2 | 358819 | 362825 | 366756 | 362800 | 1.09 | cps |
| Chromium | 52-2 | 2114941 | 2050572 | 2045677 | 2070397 | 1.87 | cps |
| Cobalt | 59-2 | 3975640 | 3960079 | 3908410 | 3948043 | 0.89 | cps |
| Copper | 63-2 | 29467110 | 29169710 | 29066031 | 29234284 | 0.71 | cps |
| Dysprosium | 156-1 | 4094 | 4124 | 4027 | 4082 | 1.21 | cps |
| Dysprosium | 156-2 | 1260 | 1380 | 1317 | 1319 | 4.55 | cps |
| Erbium | 164-1 | 3090 | 3527 | 3037 | 3218 | 8.36 | cps |
| Erbium | 164-2 | 1190 | 1130 | 1250 | 1190 | 5.04 | cps |
| Gadolinium | 160-1 | 3824 | 3981 | 3771 | 3858 | 2.83 | cps |
| Gadolinium | 160-2 | 1430 | 1673 | 1623 | 1576 | 8.16 | cps |
| Holmium | 165-1 | 20469259 | 20194190 | 20536423 | 20399958 | 0.89 | cps |
| Holmium | 165-2 | 7521233 | 7376304 | 7416942 | 7438160 | 1.01 | cps |
| Indium | 115-1 | 16840644 | 16642547 | 16224300 | 16569164 | 1.90 | cps |
| Indium | 115-2 | 1683494 | 1684388 | 1668453 | 1678778 | 0.53 | cps |
| Iron | 54-2 | 9487035 | 9646604 | 9626589 | 9586743 | 0.91 | cps |
| Iron | 56-2 | 176804624 | 174081111 | 175268064 | 175384600 | 0.78 | cps |
| Iron | 57-2 | 4476368 | 4400379 | 4443491 | 4440080 | 0.86 | cps |
| Krypton | 83-1 | 283 | 307 | 293 | 294 | 3.98 | cps |
| Lead | 206-1 | 32301535 | 32695755 | 32677694 | 32558328 | 0.68 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27698528 | 28398652 | 28089292 | 28062157 | 1.25 | cps |
| Lead | 208-1 | 127252350 | 129734402 | 128115111 | 128367288 | 0.98 | cps |
| Lithium | 6-1 | 9809962 | 9726348 | 9631873 | 9722728 | 0.92 | cps |
| Magnesium | 24-2 | 14288654 | 14522705 | 14244049 | 14351803 | 1.04 | cps |
| Manganese | 55-2 | 9934038 | 9985384 | 10028910 | 9982778 | 0.48 | cps |
| Molybdenum | 94-1 | 14426312 | 14680104 | 14668959 | 14591792 | 0.98 | cps |
| Molybdenum | 95-1 | 15654702 | 16007276 | 15946700 | 15869559 | 1.19 | cps |
| Molybdenum | 96-1 | 17779473 | 18350138 | 18178883 | 18102831 | 1.62 | cps |
| Molybdenum | 97-1 | 9929834 | 9986976 | 9922017 | 9946276 | 0.36 | cps |
| Molybdenum | 98-1 | 25585110 | 25736195 | 26030416 | 25783907 | 0.88 | cps |
| Neodymium | 150-1 | 7129 | 6745 | 6815 | 6897 | 2.96 | cps |
| Neodymium | 150-2 | 1547 | 1580 | 1507 | 1545 | 2.38 | cps |
| Nickel | 60-2 | 1026353 | 1020996 | 1021056 | 1022802 | 0.30 | cps |
| Phosphorus | 31-2 | 127 | 157 | 160 | 148 | 12.42 | cps |
| Potassium | 39-2 | 4012782 | 4021225 | 4005808 | 4013271 | 0.19 | cps |
| Rhodium | 103-1 | 15711485 | 15510809 | 15215591 | 15479295 | 1.61 | cps |
| Rhodium | 103-2 | 6330502 | 6183898 | 6099780 | 6204727 | 1.88 | cps |
| Scandium | 45-1 | 12546133 | 12349353 | 12138411 | 12344632 | 1.65 | cps |
| Scandium | 45-2 | 247230 | 241576 | 246519 | 245108 | 1.26 | cps |
| Selenium | 82-1 | 128606 | 132408 | 132821 | 131278 | 1.77 | cps |
| Selenium | 77-2 | 2314 | 2414 | 2430 | 2386 | 2.65 | cps |
| Selenium | 78-2 | 7956 | 8049 | 7816 | 7940 | 1.48 | cps |
| Silicon | 28-1 | 35119170 | 35816491 | 36852879 | 35929513 | 2.43 | cps |
| Silver | 107-1 | 1899517 | 1911153 | 1937785 | 1916152 | 1.02 | cps |
| Silver | 109-1 | 1772597 | 1832758 | 1801267 | 1802207 | 1.67 | cps |
| Sodium | 23-2 | 28188105 | 28494315 | 28230423 | 28304281 | 0.59 | cps |
| Strontium | 86-1 | 3664507 | 3719329 | 3724162 | 3702666 | 0.89 | cps |
| Strontium | 88-1 | 32024481 | 32239013 | 31665158 | 31976217 | 0.91 | cps |
| Sulfur | 34-1 | 1712142 | 1731317 | 1710022 | 1717827 | 0.68 | cps |
| Terbium | 159-1 | 21175004 | 21118214 | 20357520 | 20883579 | 2.19 | cps |
| Terbium | 159-2 | 7111556 | 7049292 | 7156119 | 7105656 | 0.76 | cps |
| Thallium | 203-1 | 7861529 | 7971026 | 7967429 | 7933328 | 0.78 | cps |
| Thallium | 205-1 | 18715821 | 18926953 | 18875946 | 18839573 | 0.58 | cps |
| Tin | 118-1 | 6169999 | 6333734 | 6320300 | 6274678 | 1.45 | cps |
| Titanium | 47-1 | 49486 | 51797 | 40362 | 47215 | 12.81 | cps |
| Uranium | 238-1 | 24495213 | 25354332 | 24907648 | 24919064 | 1.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1211-02A | Instrumnet Name : | P8 |
| Client Sample ID : | TAPIAL2-MW03-012825- | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:49:45 | DataFile Name : | 122AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1665619 | 1641318 | 1700385 | 1669107 | 1.78 | cps |
| Ytterbium | 172-1 | 1417 | 1704 | 1694 | 1605 | 10.14 | cps |
| Ytterbium | 172-2 | 733 | 730 | 633 | 699 | 8.13 | cps |
| Ytterbium | 176-1 | 38854 | 39184 | 38884 | 38974 | 0.47 | cps |
| Ytterbium | 176-2 | 14118 | 14278 | 14154 | 14183 | 0.59 | cps |
| Yttrium | 89-1 | 30792810 | 29785462 | 29377890 | 29985387 | 2.43 | cps |
| Yttrium | 89-2 | 2230846 | 2180474 | 2180979 | 2197433 | 1.32 | cps |
| Zinc | 66-2 | 3192464 | 3150878 | 3156863 | 3166735 | 0.71 | cps |
| Zirconium | 90-1 | 14948774 | 15154355 | 15281155 | 15128095 | 1.11 | cps |
| Zirconium | 91-1 | 3321877 | 3419305 | 3401322 | 3380835 | 1.53 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3845763 | 3862495 | 3796385 | 3834881 | 0.90 | cps |
| Antimony | 121-1 | 8070374 | 8155636 | 8304320 | 8176776 | 1.45 | cps |
| Arsenic | 75-2 | 175289 | 178317 | 180237 | 177948 | 1.40 | cps |
| Barium | 135-1 | 9591170 | 9842416 | 9914482 | 9782689 | 1.73 | cps |
| Barium | 137-1 | 16792821 | 16999703 | 16916218 | 16902914 | 0.62 | cps |
| Beryllium | 9-1 | 3034455 | 3109644 | 3048982 | 3064360 | 1.30 | cps |
| Bismuth | 209-1 | 11342832 | 10883827 | 11076048 | 11100902 | 2.08 | cps |
| Bismuth | 209-2 | 4860946 | 4541681 | 4610691 | 4671106 | 3.60 | cps |
| Bromine | 81-1 | 6251 | 5878 | 6225 | 6118 | 3.41 | cps |
| Cadmium | 108-1 | 156818 | 160904 | 163088 | 160270 | 1.99 | cps |
| Cadmium | 106-1 | 230662 | 233805 | 238514 | 234327 | 1.69 | cps |
| Cadmium | 111-1 | 1963559 | 1996119 | 2025183 | 1994954 | 1.55 | cps |
| Calcium | 43-1 | 14027736 | 14129160 | 14095468 | 14084121 | 0.37 | cps |
| Calcium | 44-1 | 227435997 | 229714763 | 228471157 | 228540639 | 0.50 | cps |
| Carbon | 12-1 | 6609949 | 6784223 | 6986239 | 6793470 | 2.77 | cps |
| Carbon | 12-2 | 50426 | 50443 | 50901 | 50590 | 0.53 | cps |
| Chlorine | 35-1 | 5127423 | 4812195 | 4548909 | 4829509 | 6.00 | cps |
| Chlorine | 35-2 | 16393 | 16129 | 15805 | 16109 | 1.83 | cps |
| Chromium | 52-2 | 2052872 | 2029577 | 2017191 | 2033213 | 0.89 | cps |
| Cobalt | 59-2 | 3700956 | 3782854 | 3726229 | 3736680 | 1.12 | cps |
| Copper | 63-2 | 27189207 | 27125057 | 27102416 | 27138893 | 0.17 | cps |
| Dysprosium | 156-1 | 400 | 457 | 437 | 431 | 6.67 | cps |
| Dysprosium | 156-2 | 133 | 130 | 103 | 122 | 13.46 | cps |
| Erbium | 164-1 | 403 | 397 | 427 | 409 | 3.85 | cps |
| Erbium | 164-2 | 170 | 160 | 170 | 167 | 3.46 | cps |
| Gadolinium | 160-1 | 390 | 377 | 383 | 383 | 1.74 | cps |
| Gadolinium | 160-2 | 157 | 140 | 110 | 136 | 17.45 | cps |
| Holmium | 165-1 | 20271291 | 19225875 | 19279816 | 19592327 | 3.00 | cps |
| Holmium | 165-2 | 7045053 | 6519517 | 7027727 | 6864099 | 4.35 | cps |
| Indium | 115-1 | 15875189 | 14950155 | 15084348 | 15303231 | 3.27 | cps |
| Indium | 115-2 | 1557725 | 1414405 | 1471200 | 1481110 | 4.87 | cps |
| Iron | 54-2 | 19861976 | 20107217 | 20260622 | 20076605 | 1.00 | cps |
| Iron | 56-2 | 362233221 | 364109795 | 365803568 | 364048861 | 0.49 | cps |
| Iron | 57-2 | 9151672 | 9264255 | 9159943 | 9191957 | 0.68 | cps |
| Krypton | 83-1 | 350 | 320 | 333 | 334 | 4.49 | cps |
| Lead | 206-1 | 29811493 | 30765306 | 31117292 | 30564697 | 2.21 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 25904464 | 26306471 | 26335337 | 26182091 | 0.92 | cps |
| Lead | 208-1 | 119111466 | 121040730 | 121557423 | 120569873 | 1.07 | cps |
| Lithium | 6-1 | 9160208 | 8944903 | 9110054 | 9071722 | 1.24 | cps |
| Magnesium | 24-2 | 65665711 | 67050971 | 67239884 | 66652188 | 1.29 | cps |
| Manganese | 55-2 | 7938829 | 7988579 | 8146709 | 8024706 | 1.35 | cps |
| Molybdenum | 94-1 | 29434890 | 30553633 | 30181242 | 30056588 | 1.90 | cps |
| Molybdenum | 95-1 | 41625443 | 42834743 | 43086609 | 42515598 | 1.84 | cps |
| Molybdenum | 96-1 | 46470713 | 46335001 | 47233048 | 46679587 | 1.04 | cps |
| Molybdenum | 97-1 | 25870254 | 26410942 | 26672420 | 26317872 | 1.55 | cps |
| Molybdenum | 98-1 | 67435997 | 69425869 | 68663504 | 68508457 | 1.47 | cps |
| Neodymium | 150-1 | 790 | 797 | 733 | 773 | 4.50 | cps |
| Neodymium | 150-2 | 43 | 53 | 47 | 48 | 10.66 | cps |
| Nickel | 60-2 | 951214 | 954355 | 951683 | 952417 | 0.18 | cps |
| Phosphorus | 31-2 | 36526 | 37405 | 36967 | 36966 | 1.19 | cps |
| Potassium | 39-2 | 19299719 | 19499945 | 19754290 | 19517984 | 1.17 | cps |
| Rhodium | 103-1 | 14325696 | 13428607 | 13785434 | 13846579 | 3.26 | cps |
| Rhodium | 103-2 | 5653266 | 5182983 | 5399773 | 5412007 | 4.35 | cps |
| Scandium | 45-1 | 11808637 | 11432970 | 11433770 | 11558459 | 1.87 | cps |
| Scandium | 45-2 | 233037 | 218122 | 225314 | 225491 | 3.31 | cps |
| Selenium | 82-1 | 119742 | 121719 | 122075 | 121179 | 1.04 | cps |
| Selenium | 77-2 | 2174 | 2127 | 2290 | 2197 | 3.83 | cps |
| Selenium | 78-2 | 7485 | 7902 | 7449 | 7612 | 3.31 | cps |
| Silicon | 28-1 | 7445029 | 7432273 | 7430265 | 7435856 | 0.11 | cps |
| Silver | 107-1 | 9666025 | 10053664 | 10134307 | 9951332 | 2.52 | cps |
| Silver | 109-1 | 9245008 | 9345922 | 9636827 | 9409252 | 2.16 | cps |
| Sodium | 23-2 | 133200381 | 136572505 | 137391478 | 135721455 | 1.64 | cps |
| Strontium | 86-1 | 2758673 | 2819540 | 2816385 | 2798200 | 1.22 | cps |
| Strontium | 88-1 | 23515334 | 23735344 | 23714868 | 23655182 | 0.51 | cps |
| Sulfur | 34-1 | 1650004 | 1650883 | 1621417 | 1640768 | 1.02 | cps |
| Terbium | 159-1 | 20255307 | 19865042 | 19748831 | 19956393 | 1.33 | cps |
| Terbium | 159-2 | 6824926 | 6345208 | 6641035 | 6603723 | 3.66 | cps |
| Thallium | 203-1 | 7372236 | 7552879 | 7603523 | 7509546 | 1.62 | cps |
| Thallium | 205-1 | 17273860 | 18304818 | 18168505 | 17915728 | 3.13 | cps |
| Tin | 118-1 | 6491027 | 6485525 | 6543434 | 6506662 | 0.49 | cps |
| Titanium | 47-1 | 13368029 | 13560956 | 13475508 | 13468164 | 0.72 | cps |
| Uranium | 238-1 | 24282185 | 24283115 | 24433879 | 24333060 | 0.36 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:52:28 | DataFile Name : | 123CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1612573 | 1635945 | 1602062 | 1616860 | 1.07 | cps |
| Ytterbium | 172-1 | 437 | 580 | 413 | 477 | 18.93 | cps |
| Ytterbium | 172-2 | 210 | 243 | 253 | 236 | 9.63 | cps |
| Ytterbium | 176-1 | 37567 | 38272 | 39195 | 38344 | 2.13 | cps |
| Ytterbium | 176-2 | 13841 | 14298 | 13971 | 14036 | 1.68 | cps |
| Yttrium | 89-1 | 29072290 | 28111999 | 28097209 | 28427166 | 1.97 | cps |
| Yttrium | 89-2 | 2124875 | 1961757 | 1987638 | 2024757 | 4.33 | cps |
| Zinc | 66-2 | 2947327 | 2992846 | 2982635 | 2974269 | 0.80 | cps |
| Zirconium | 90-1 | 14550203 | 15475511 | 15118671 | 15048128 | 3.10 | cps |
| Zirconium | 91-1 | 3328275 | 3392710 | 3393437 | 3371474 | 1.11 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 143 | 147 | 153 | 148 | 3.45 | cps |
| Antimony | 121-1 | 1037 | 1007 | 1107 | 1050 | 4.89 | cps |
| Arsenic | 75-2 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Barium | 135-1 | 190 | 187 | 233 | 203 | 12.80 | cps |
| Barium | 137-1 | 323 | 283 | 330 | 312 | 8.08 | cps |
| Beryllium | 9-1 | 1789 | 1804 | 1741 | 1778 | 1.84 | cps |
| Bismuth | 209-1 | 12888537 | 11991596 | 12408072 | 12429401 | 3.61 | cps |
| Bismuth | 209-2 | 5347108 | 5673923 | 5667063 | 5562698 | 3.36 | cps |
| Bromine | 81-1 | 5948 | 5611 | 5708 | 5756 | 3.01 | cps |
| Cadmium | 108-1 | 7 | 13 | 27 | 16 | 65.47 | cps |
| Cadmium | 106-1 | 8486 | 7906 | 8659 | 8350 | 4.73 | cps |
| Cadmium | 111-1 | 6059 | 5585 | 6166 | 5937 | 5.21 | cps |
| Calcium | 43-1 | 793 | 780 | 740 | 771 | 3.60 | cps |
| Calcium | 44-1 | 37622 | 36626 | 37255 | 37168 | 1.36 | cps |
| Carbon | 12-1 | 4669530 | 4459030 | 4471560 | 4533373 | 2.60 | cps |
| Carbon | 12-2 | 27740 | 27763 | 28067 | 27856 | 0.66 | cps |
| Chlorine | 35-1 | 1597809 | 1550775 | 1456086 | 1534890 | 4.70 | cps |
| Chlorine | 35-2 | 5755 | 5471 | 5408 | 5544 | 3.33 | cps |
| Chromium | 52-2 | 1677 | 1690 | 1783 | 1717 | 3.39 | cps |
| Cobalt | 59-2 | 253 | 277 | 253 | 261 | 5.16 | cps |
| Copper | 63-2 | 4084 | 4167 | 3941 | 4064 | 2.82 | cps |
| Dysprosium | 156-1 | 13 | 17 | 23 | 18 | 28.64 | cps |
| Dysprosium | 156-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Erbium | 164-1 | 113 | 87 | 90 | 97 | 15.03 | cps |
| Erbium | 164-2 | 53 | 50 | 37 | 47 | 18.89 | cps |
| Gadolinium | 160-1 | 143 | 103 | 137 | 128 | 16.78 | cps |
| Gadolinium | 160-2 | 20 | 43 | 33 | 32 | 36.33 | cps |
| Holmium | 165-1 | 20393242 | 19133824 | 20018978 | 19848681 | 3.26 | cps |
| Holmium | 165-2 | 7155366 | 7515857 | 7510981 | 7394068 | 2.80 | cps |
| Indium | 115-1 | 16995465 | 16345357 | 16940321 | 16760381 | 2.15 | cps |
| Indium | 115-2 | 1684566 | 1788950 | 1777622 | 1750379 | 3.27 | cps |
| Iron | 54-2 | 1127 | 1133 | 1340 | 1200 | 10.11 | cps |
| Iron | 56-2 | 17738 | 18616 | 18198 | 18184 | 2.41 | cps |
| Iron | 57-2 | 450 | 433 | 397 | 427 | 6.39 | cps |
| Krypton | 83-1 | 357 | 347 | 323 | 342 | 5.00 | cps |
| Lead | 206-1 | 3904 | 3697 | 3947 | 3850 | 3.47 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3544 | 3644 | 3564 | 3584 | 1.48 | cps |
| Lead | 208-1 | 15864 | 15477 | 15567 | 15636 | 1.29 | cps |
| Lithium | 6-1 | 9987623 | 9561051 | 9893784 | 9814153 | 2.28 | cps |
| Magnesium | 24-2 | 5818 | 5801 | 6048 | 5889 | 2.34 | cps |
| Manganese | 55-2 | 570 | 527 | 537 | 544 | 4.17 | cps |
| Molybdenum | 94-1 | 1123 | 1027 | 1070 | 1073 | 4.51 | cps |
| Molybdenum | 95-1 | 887 | 753 | 813 | 818 | 8.17 | cps |
| Molybdenum | 96-1 | 933 | 943 | 983 | 953 | 2.78 | cps |
| Molybdenum | 97-1 | 527 | 473 | 513 | 504 | 5.50 | cps |
| Molybdenum | 98-1 | 1323 | 1213 | 1253 | 1263 | 4.41 | cps |
| Neodymium | 150-1 | 20 | 10 | 20 | 17 | 34.64 | cps |
| Neodymium | 150-2 | 3 | 7 | 3 | 4 | 43.40 | cps |
| Nickel | 60-2 | 1577 | 1760 | 1717 | 1685 | 5.69 | cps |
| Phosphorus | 31-2 | 53 | 83 | 90 | 76 | 25.85 | cps |
| Potassium | 39-2 | 21680 | 21186 | 20939 | 21268 | 1.77 | cps |
| Rhodium | 103-1 | 16584018 | 15302121 | 16100915 | 15995684 | 4.05 | cps |
| Rhodium | 103-2 | 6242253 | 6596772 | 6594567 | 6477864 | 3.15 | cps |
| Scandium | 45-1 | 12789678 | 11872818 | 12373549 | 12345348 | 3.72 | cps |
| Scandium | 45-2 | 236671 | 249246 | 246079 | 243999 | 2.68 | cps |
| Selenium | 82-1 | -3 | 23 | 40 | 20 | 109.33 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 3 | 10 | 17 | 10 | 66.70 | cps |
| Silicon | 28-1 | 641040 | 649121 | 640781 | 643647 | 0.74 | cps |
| Silver | 107-1 | 640 | 610 | 637 | 629 | 2.61 | cps |
| Silver | 109-1 | 467 | 467 | 563 | 499 | 11.19 | cps |
| Sodium | 23-2 | 82381 | 82474 | 81499 | 82118 | 0.66 | cps |
| Strontium | 86-1 | 723 | 680 | 733 | 712 | 3.98 | cps |
| Strontium | 88-1 | 1083 | 1013 | 1103 | 1067 | 4.43 | cps |
| Sulfur | 34-1 | 850786 | 852434 | 851103 | 851441 | 0.10 | cps |
| Terbium | 159-1 | 21166899 | 20015414 | 20722345 | 20634886 | 2.81 | cps |
| Terbium | 159-2 | 6946735 | 7286104 | 7311378 | 7181406 | 2.84 | cps |
| Thallium | 203-1 | 1450 | 1307 | 1360 | 1372 | 5.28 | cps |
| Thallium | 205-1 | 3390 | 3247 | 3187 | 3275 | 3.19 | cps |
| Tin | 118-1 | 2040 | 2160 | 2087 | 2096 | 2.89 | cps |
| Titanium | 47-1 | 433 | 323 | 347 | 368 | 15.76 | cps |
| Uranium | 238-1 | 243 | 193 | 223 | 220 | 11.44 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB007 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB007 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 18:58:24 | DataFile Name : | 124CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 30 | 33 | 43 | 36 | 19.51 | cps |
| Ytterbium | 172-1 | 103 | 123 | 87 | 104 | 17.57 | cps |
| Ytterbium | 172-2 | 43 | 50 | 27 | 40 | 30.04 | cps |
| Ytterbium | 176-1 | 2017 | 1940 | 2030 | 1996 | 2.43 | cps |
| Ytterbium | 176-2 | 273 | 333 | 277 | 294 | 11.45 | cps |
| Yttrium | 89-1 | 31265022 | 29130775 | 30027465 | 30141087 | 3.56 | cps |
| Yttrium | 89-2 | 2156169 | 2280003 | 2274692 | 2236955 | 3.13 | cps |
| Zinc | 66-2 | 507 | 497 | 597 | 533 | 10.33 | cps |
| Zirconium | 90-1 | 1333 | 1420 | 1487 | 1413 | 5.44 | cps |
| Zirconium | 91-1 | 260 | 320 | 277 | 286 | 10.85 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1892254 | 1853194 | 1787313 | 1844254 | 2.88 | cps |
| Antimony | 121-1 | 18105 | 17959 | 17808 | 17957 | 0.83 | cps |
| Arsenic | 75-2 | 22001 | 22969 | 22174 | 22381 | 2.31 | cps |
| Barium | 135-1 | 978873 | 995852 | 981656 | 985460 | 0.92 | cps |
| Barium | 137-1 | 1763742 | 1818263 | 1740934 | 1774313 | 2.24 | cps |
| Beryllium | 9-1 | 7974 | 7991 | 7851 | 7939 | 0.96 | cps |
| Bismuth | 209-1 | 12126629 | 11940975 | 12108961 | 12058855 | 0.85 | cps |
| Bismuth | 209-2 | 5399777 | 4961415 | 5829899 | 5397030 | 8.05 | cps |
| Bromine | 81-1 | 13226 | 12112 | 11615 | 12318 | 6.70 | cps |
| Cadmium | 108-1 | 143 | 157 | 210 | 170 | 20.75 | cps |
| Cadmium | 106-1 | 8646 | 8816 | 8850 | 8771 | 1.24 | cps |
| Cadmium | 111-1 | 6822 | 6955 | 6998 | 6925 | 1.32 | cps |
| Calcium | 43-1 | 375419 | 378017 | 371744 | 375060 | 0.84 | cps |
| Calcium | 44-1 | 6267391 | 6318462 | 6124037 | 6236630 | 1.62 | cps |
| Carbon | 12-1 | 5063958 | 5085706 | 5082170 | 5077278 | 0.23 | cps |
| Carbon | 12-2 | 32386 | 31647 | 31427 | 31820 | 1.58 | cps |
| Chlorine | 35-1 | 218017010 | 235938296 | 242593710 | 232183005 | 5.47 | cps |
| Chlorine | 35-2 | 1031124 | 1035134 | 1035472 | 1033910 | 0.23 | cps |
| Chromium | 52-2 | 226614 | 226674 | 226544 | 226610 | 0.03 | cps |
| Cobalt | 59-2 | 235306 | 235245 | 235768 | 235440 | 0.12 | cps |
| Copper | 63-2 | 660187 | 663384 | 649253 | 657608 | 1.13 | cps |
| Dysprosium | 156-1 | 71148 | 72217 | 71996 | 71787 | 0.79 | cps |
| Dysprosium | 156-2 | 28657 | 27929 | 29038 | 28542 | 1.97 | cps |
| Erbium | 164-1 | 68334 | 69540 | 69071 | 68982 | 0.88 | cps |
| Erbium | 164-2 | 25100 | 24933 | 24509 | 24848 | 1.23 | cps |
| Gadolinium | 160-1 | 76333 | 75690 | 76565 | 76196 | 0.60 | cps |
| Gadolinium | 160-2 | 34050 | 34585 | 34067 | 34234 | 0.89 | cps |
| Holmium | 165-1 | 20171306 | 20083131 | 19841763 | 20032067 | 0.85 | cps |
| Holmium | 165-2 | 7400539 | 6836693 | 7942626 | 7393286 | 7.48 | cps |
| Indium | 115-1 | 16763666 | 16423181 | 16466461 | 16551103 | 1.12 | cps |
| Indium | 115-2 | 1709792 | 1592037 | 1824925 | 1708918 | 6.81 | cps |
| Iron | 54-2 | 10780242 | 10664809 | 10578170 | 10674407 | 0.95 | cps |
| Iron | 56-2 | 196890284 | 197396850 | 194887544 | 196391559 | 0.68 | cps |
| Iron | 57-2 | 5031092 | 5046010 | 4965387 | 5014163 | 0.86 | cps |
| Krypton | 83-1 | 500 | 473 | 467 | 480 | 3.67 | cps |
| Lead | 206-1 | 336095 | 338167 | 344643 | 339635 | 1.31 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 272841 | 277773 | 273723 | 274779 | 0.96 | cps |
| Lead | 208-1 | 1288810 | 1303811 | 1308090 | 1300237 | 0.78 | cps |
| Lithium | 6-1 | 10536485 | 10555516 | 10359388 | 10483796 | 1.03 | cps |
| Magnesium | 24-2 | 3260980 | 3267199 | 3124869 | 3217683 | 2.50 | cps |
| Manganese | 55-2 | 863738 | 862956 | 859374 | 862022 | 0.27 | cps |
| Molybdenum | 94-1 | 17668 | 17064 | 17348 | 17360 | 1.74 | cps |
| Molybdenum | 95-1 | 11348 | 11265 | 10921 | 11178 | 2.02 | cps |
| Molybdenum | 96-1 | 14024 | 14014 | 14454 | 14164 | 1.77 | cps |
| Molybdenum | 97-1 | 6775 | 6648 | 6818 | 6747 | 1.31 | cps |
| Molybdenum | 98-1 | 18249 | 18222 | 18062 | 18178 | 0.56 | cps |
| Neodymium | 150-1 | 77180 | 76114 | 77006 | 76766 | 0.75 | cps |
| Neodymium | 150-2 | 20269 | 19908 | 19901 | 20026 | 1.05 | cps |
| Nickel | 60-2 | 181056 | 181830 | 179243 | 180710 | 0.73 | cps |
| Phosphorus | 31-2 | 2807 | 2634 | 2564 | 2668 | 4.70 | cps |
| Potassium | 39-2 | 121462 | 120891 | 121600 | 121318 | 0.31 | cps |
| Rhodium | 103-1 | 15929331 | 16167841 | 15820660 | 15972611 | 1.11 | cps |
| Rhodium | 103-2 | 6458937 | 5898130 | 6741101 | 6366056 | 6.74 | cps |
| Scandium | 45-1 | 13203603 | 13004366 | 12984535 | 13064168 | 0.93 | cps |
| Scandium | 45-2 | 256884 | 238784 | 270070 | 255246 | 6.15 | cps |
| Selenium | 82-1 | 3090 | 3140 | 3404 | 3212 | 5.24 | cps |
| Selenium | 77-2 | 223 | 163 | 180 | 189 | 16.40 | cps |
| Selenium | 78-2 | 290 | 330 | 317 | 312 | 6.52 | cps |
| Silicon | 28-1 | 101934285 | 101193965 | 99945629 | 101024626 | 0.99 | cps |
| Silver | 107-1 | 7756 | 7872 | 7759 | 7796 | 0.85 | cps |
| Silver | 109-1 | 7015 | 7365 | 7295 | 7225 | 2.56 | cps |
| Sodium | 23-2 | 125903 | 129054 | 130164 | 128374 | 1.72 | cps |
| Strontium | 86-1 | 318866 | 319859 | 319915 | 319547 | 0.18 | cps |
| Strontium | 88-1 | 2905401 | 2893620 | 2880870 | 2893297 | 0.42 | cps |
| Sulfur | 34-1 | 792851 | 757288 | 737730 | 762623 | 3.66 | cps |
| Terbium | 159-1 | 20685736 | 20395725 | 20489361 | 20523607 | 0.72 | cps |
| Terbium | 159-2 | 7147816 | 6571764 | 7742883 | 7154154 | 8.19 | cps |
| Thallium | 203-1 | 6759 | 7496 | 8003 | 7419 | 8.43 | cps |
| Thallium | 205-1 | 16798 | 18623 | 19655 | 18359 | 7.88 | cps |
| Tin | 118-1 | 6878 | 7095 | 7245 | 7073 | 2.61 | cps |
| Titanium | 47-1 | 65856 | 65204 | 65237 | 65433 | 0.56 | cps |
| Uranium | 238-1 | 23712 | 23746 | 24868 | 24109 | 2.73 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01A | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:55:15 | DataFile Name : | 125AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 222651 | 221882 | 219240 | 221258 | 0.81 | cps |
| Ytterbium | 172-1 | 19361 | 20279 | 19331 | 19657 | 2.74 | cps |
| Ytterbium | 172-2 | 8946 | 8770 | 8906 | 8874 | 1.04 | cps |
| Ytterbium | 176-1 | 13834 | 13260 | 14034 | 13709 | 2.93 | cps |
| Ytterbium | 176-2 | 5781 | 5901 | 5748 | 5810 | 1.39 | cps |
| Yttrium | 89-1 | 31247817 | 31211472 | 31161848 | 31207046 | 0.14 | cps |
| Yttrium | 89-2 | 2354129 | 2115670 | 2417043 | 2295614 | 6.93 | cps |
| Zinc | 66-2 | 93100 | 91332 | 91499 | 91977 | 1.06 | cps |
| Zirconium | 90-1 | 30113 | 29648 | 29471 | 29744 | 1.11 | cps |
| Zirconium | 91-1 | 6478 | 6722 | 6735 | 6645 | 2.18 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 620 | 600 | 523 | 581 | 8.78 | cps |
| Antimony | 121-1 | 433 | 443 | 430 | 436 | 1.59 | cps |
| Arsenic | 75-2 | 70 | 97 | 63 | 77 | 23.01 | cps |
| Barium | 135-1 | 65223 | 65631 | 65032 | 65295 | 0.47 | cps |
| Barium | 137-1 | 111585 | 113091 | 114940 | 113205 | 1.48 | cps |
| Beryllium | 9-1 | 599 | 662 | 664 | 642 | 5.79 | cps |
| Bismuth | 209-1 | 10694342 | 10889084 | 10996755 | 10860061 | 1.41 | cps |
| Bismuth | 209-2 | 4787088 | 4816182 | 4771969 | 4791746 | 0.47 | cps |
| Bromine | 81-1 | 101752 | 127340 | 142943 | 124012 | 16.77 | cps |
| Cadmium | 108-1 | 27 | 30 | 43 | 33 | 26.45 | cps |
| Cadmium | 106-1 | 7282 | 7996 | 8096 | 7791 | 5.70 | cps |
| Cadmium | 111-1 | 5179 | 5639 | 5713 | 5510 | 5.26 | cps |
| Calcium | 43-1 | 25329312 | 25245306 | 25862190 | 25478936 | 1.31 | cps |
| Calcium | 44-1 | 397314141 | 411621767 | 411091221 | 406675709 | 1.99 | cps |
| Carbon | 12-1 | 7842130 | 9037136 | 9488076 | 8789114 | 9.68 | cps |
| Carbon | 12-2 | 67561 | 68247 | 69487 | 68432 | 1.43 | cps |
| Chlorine | 35-1 | 41561986 | 43853666 | 43988924 | 43134859 | 3.16 | cps |
| Chlorine | 35-2 | 183501 | 182924 | 182060 | 182828 | 0.40 | cps |
| Chromium | 52-2 | 1917 | 1800 | 2104 | 1940 | 7.89 | cps |
| Cobalt | 59-2 | 537 | 537 | 557 | 543 | 2.13 | cps |
| Copper | 63-2 | 4811 | 4798 | 4868 | 4825 | 0.77 | cps |
| Dysprosium | 156-1 | 63 | 63 | 57 | 61 | 6.29 | cps |
| Dysprosium | 156-2 | 27 | 30 | 23 | 27 | 12.51 | cps |
| Erbium | 164-1 | 133 | 97 | 163 | 131 | 25.47 | cps |
| Erbium | 164-2 | 50 | 43 | 47 | 47 | 7.15 | cps |
| Gadolinium | 160-1 | 143 | 163 | 143 | 150 | 7.70 | cps |
| Gadolinium | 160-2 | 43 | 50 | 50 | 48 | 8.06 | cps |
| Holmium | 165-1 | 18744206 | 18889408 | 18839471 | 18824362 | 0.39 | cps |
| Holmium | 165-2 | 6918172 | 7006706 | 6963094 | 6962657 | 0.64 | cps |
| Indium | 115-1 | 14757475 | 14856706 | 14892118 | 14835433 | 0.47 | cps |
| Indium | 115-2 | 1559349 | 1559347 | 1506358 | 1541684 | 1.98 | cps |
| Iron | 54-2 | 217355 | 215956 | 215971 | 216427 | 0.37 | cps |
| Iron | 56-2 | 4032464 | 4041513 | 4053319 | 4042432 | 0.26 | cps |
| Iron | 57-2 | 99820 | 100645 | 99598 | 100021 | 0.55 | cps |
| Krypton | 83-1 | 327 | 277 | 340 | 314 | 10.62 | cps |
| Lead | 206-1 | 3544 | 3134 | 3014 | 3230 | 8.60 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2927 | 2854 | 2704 | 2828 | 4.03 | cps |
| Lead | 208-1 | 13696 | 12649 | 12209 | 12852 | 5.94 | cps |
| Lithium | 6-1 | 8796999 | 9115929 | 9182995 | 9031974 | 2.28 | cps |
| Magnesium | 24-2 | 39531196 | 38714454 | 39059852 | 39101834 | 1.05 | cps |
| Manganese | 55-2 | 82406 | 80746 | 80639 | 81264 | 1.22 | cps |
| Molybdenum | 94-1 | 4544 | 4667 | 4661 | 4624 | 1.50 | cps |
| Molybdenum | 95-1 | 6228 | 6598 | 6918 | 6582 | 5.25 | cps |
| Molybdenum | 96-1 | 6678 | 7072 | 6925 | 6892 | 2.89 | cps |
| Molybdenum | 97-1 | 3911 | 4084 | 4001 | 3998 | 2.17 | cps |
| Molybdenum | 98-1 | 9854 | 10277 | 10231 | 10120 | 2.30 | cps |
| Neodymium | 150-1 | 60 | 73 | 83 | 72 | 16.21 | cps |
| Neodymium | 150-2 | 13 | 17 | 30 | 20 | 44.10 | cps |
| Nickel | 60-2 | 1570 | 1823 | 1803 | 1732 | 8.13 | cps |
| Phosphorus | 31-2 | 127 | 177 | 107 | 137 | 26.38 | cps |
| Potassium | 39-2 | 762170 | 759560 | 763375 | 761702 | 0.26 | cps |
| Rhodium | 103-1 | 13101464 | 13563816 | 13465537 | 13376939 | 1.82 | cps |
| Rhodium | 103-2 | 5571090 | 5661562 | 5568465 | 5600372 | 0.95 | cps |
| Scandium | 45-1 | 11021823 | 11133652 | 11338025 | 11164500 | 1.44 | cps |
| Scandium | 45-2 | 229409 | 227998 | 225318 | 227575 | 0.91 | cps |
| Selenium | 82-1 | 2834 | 2870 | 2944 | 2883 | 1.94 | cps |
| Selenium | 77-2 | 37 | 57 | 57 | 50 | 23.09 | cps |
| Selenium | 78-2 | 180 | 213 | 200 | 198 | 8.48 | cps |
| Silicon | 28-1 | 110588908 | 114044522 | 114474198 | 113035876 | 1.88 | cps |
| Silver | 107-1 | 657 | 763 | 830 | 750 | 11.66 | cps |
| Silver | 109-1 | 447 | 473 | 507 | 476 | 6.32 | cps |
| Sodium | 23-2 | 100065769 | 100601322 | 99726712 | 100131267 | 0.44 | cps |
| Strontium | 86-1 | 76995879 | 76175342 | 78063039 | 77078087 | 1.23 | cps |
| Strontium | 88-1 | 665739750 | 664813537 | 677846217 | 669466501 | 1.09 | cps |
| Sulfur | 34-1 | 36202033 | 36412238 | 37051357 | 36555209 | 1.21 | cps |
| Terbium | 159-1 | 19185310 | 19360542 | 19512891 | 19352915 | 0.85 | cps |
| Terbium | 159-2 | 6727972 | 6845383 | 6570632 | 6714662 | 2.05 | cps |
| Thallium | 203-1 | 1290 | 1270 | 1407 | 1322 | 5.58 | cps |
| Thallium | 205-1 | 3117 | 2997 | 2954 | 3023 | 2.80 | cps |
| Tin | 118-1 | 8960 | 9193 | 12316 | 10156 | 18.45 | cps |
| Titanium | 47-1 | 2310 | 2240 | 2320 | 2290 | 1.90 | cps |
| Uranium | 238-1 | 11932 | 12563 | 12496 | 12331 | 2.81 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-09A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2959A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 19:58:30 | DataFile Name : | 126AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 107 | 70 | 127 | 101 | 28.42 | cps |
| Ytterbium | 172-1 | 123 | 113 | 107 | 114 | 7.33 | cps |
| Ytterbium | 172-2 | 57 | 30 | 53 | 47 | 31.14 | cps |
| Ytterbium | 176-1 | 1763 | 1783 | 1777 | 1775 | 0.57 | cps |
| Ytterbium | 176-2 | 287 | 360 | 353 | 333 | 12.17 | cps |
| Yttrium | 89-1 | 27204633 | 27835045 | 27723190 | 27587623 | 1.22 | cps |
| Yttrium | 89-2 | 2058880 | 2060886 | 2057871 | 2059213 | 0.07 | cps |
| Zinc | 66-2 | 860 | 850 | 933 | 881 | 5.16 | cps |
| Zirconium | 90-1 | 2820 | 2614 | 2520 | 2651 | 5.79 | cps |
| Zirconium | 91-1 | 560 | 550 | 527 | 546 | 3.14 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 48755 | 47798 | 48243 | 48265 | 0.99 | cps |
| Antimony | 121-1 | 74823 | 74739 | 76721 | 75428 | 1.49 | cps |
| Arsenic | 75-2 | 930 | 950 | 783 | 888 | 10.25 | cps |
| Barium | 135-1 | 166705 | 169190 | 170198 | 168698 | 1.07 | cps |
| Barium | 137-1 | 291919 | 297069 | 295328 | 294772 | 0.89 | cps |
| Beryllium | 9-1 | 654 | 712 | 671 | 679 | 4.44 | cps |
| Bismuth | 209-1 | 12111736 | 12217610 | 12064634 | 12131327 | 0.65 | cps |
| Bismuth | 209-2 | 5339697 | 5318389 | 5293808 | 5317298 | 0.43 | cps |
| Bromine | 81-1 | 250639 | 273800 | 290257 | 271566 | 7.33 | cps |
| Cadmium | 108-1 | 227 | 193 | 217 | 212 | 8.06 | cps |
| Cadmium | 106-1 | 9043 | 9000 | 8486 | 8843 | 3.50 | cps |
| Cadmium | 111-1 | 6461 | 6471 | 6105 | 6346 | 3.29 | cps |
| Calcium | 43-1 | 8158629 | 8269608 | 8304445 | 8244227 | 0.92 | cps |
| Calcium | 44-1 | 132607435 | 134140455 | 133701298 | 133483062 | 0.59 | cps |
| Carbon | 12-1 | 18225983 | 20513686 | 21706421 | 20148697 | 8.78 | cps |
| Carbon | 12-2 | 145643 | 147126 | 148434 | 147068 | 0.95 | cps |
| Chlorine | 35-1 | 7538743 | 7466393 | 7258851 | 7421329 | 1.96 | cps |
| Chlorine | 35-2 | 28775 | 28341 | 28054 | 28390 | 1.28 | cps |
| Chromium | 52-2 | 2667 | 2780 | 2914 | 2787 | 4.43 | cps |
| Cobalt | 59-2 | 1153 | 1217 | 1287 | 1219 | 5.47 | cps |
| Copper | 63-2 | 11141 | 10834 | 10714 | 10896 | 2.02 | cps |
| Dysprosium | 156-1 | 60 | 103 | 50 | 71 | 39.87 | cps |
| Dysprosium | 156-2 | 17 | 17 | 37 | 23 | 49.48 | cps |
| Erbium | 164-1 | 117 | 173 | 137 | 142 | 20.21 | cps |
| Erbium | 164-2 | 43 | 33 | 30 | 36 | 19.51 | cps |
| Gadolinium | 160-1 | 130 | 173 | 133 | 146 | 16.57 | cps |
| Gadolinium | 160-2 | 17 | 37 | 57 | 37 | 54.54 | cps |
| Holmium | 165-1 | 20205834 | 20513926 | 19978921 | 20232894 | 1.33 | cps |
| Holmium | 165-2 | 7371317 | 7415501 | 7388182 | 7391667 | 0.30 | cps |
| Indium | 115-1 | 16439712 | 16488467 | 16406286 | 16444821 | 0.25 | cps |
| Indium | 115-2 | 1684084 | 1685495 | 1679329 | 1682970 | 0.19 | cps |
| Iron | 54-2 | 7222 | 7262 | 7122 | 7202 | 1.00 | cps |
| Iron | 56-2 | 132648 | 130521 | 129485 | 130885 | 1.23 | cps |
| Iron | 57-2 | 3624 | 3480 | 3701 | 3602 | 3.10 | cps |
| Krypton | 83-1 | 310 | 240 | 260 | 270 | 13.36 | cps |
| Lead | 206-1 | 8056 | 7829 | 8133 | 8006 | 1.97 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6578 | 6832 | 6822 | 6744 | 2.13 | cps |
| Lead | 208-1 | 31222 | 31242 | 31936 | 31466 | 1.29 | cps |
| Lithium | 6-1 | 10290078 | 9743188 | 9879250 | 9970839 | 2.86 | cps |
| Magnesium | 24-2 | 13696 | 13266 | 12659 | 13207 | 3.95 | cps |
| Manganese | 55-2 | 5621 | 5564 | 5304 | 5497 | 3.07 | cps |
| Molybdenum | 94-1 | 222045 | 220522 | 223467 | 222011 | 0.66 | cps |
| Molybdenum | 95-1 | 374828 | 380276 | 382696 | 379267 | 1.06 | cps |
| Molybdenum | 96-1 | 399139 | 407216 | 409661 | 405339 | 1.36 | cps |
| Molybdenum | 97-1 | 238409 | 238910 | 238505 | 238608 | 0.11 | cps |
| Molybdenum | 98-1 | 602384 | 613293 | 613143 | 609607 | 1.03 | cps |
| Neodymium | 150-1 | 93 | 67 | 103 | 88 | 21.59 | cps |
| Neodymium | 150-2 | 40 | 10 | 17 | 22 | 70.88 | cps |
| Nickel | 60-2 | 352338 | 349742 | 353609 | 351896 | 0.56 | cps |
| Phosphorus | 31-2 | 1740 | 1693 | 1547 | 1660 | 6.08 | cps |
| Potassium | 39-2 | 10132441 | 10200235 | 10230104 | 10187593 | 0.49 | cps |
| Rhodium | 103-1 | 15270700 | 15100229 | 14947797 | 15106242 | 1.07 | cps |
| Rhodium | 103-2 | 6099273 | 6152131 | 6131478 | 6127627 | 0.43 | cps |
| Scandium | 45-1 | 12223504 | 12101345 | 12079493 | 12134781 | 0.64 | cps |
| Scandium | 45-2 | 243853 | 242870 | 240242 | 242322 | 0.77 | cps |
| Selenium | 82-1 | 3190 | 3064 | 3120 | 3125 | 2.03 | cps |
| Selenium | 77-2 | 23 | 43 | 50 | 39 | 35.69 | cps |
| Selenium | 78-2 | 200 | 233 | 240 | 224 | 9.55 | cps |
| Silicon | 28-1 | 32956152 | 33204272 | 33261833 | 33140752 | 0.49 | cps |
| Silver | 107-1 | 597 | 573 | 533 | 568 | 5.64 | cps |
| Silver | 109-1 | 393 | 377 | 350 | 373 | 5.85 | cps |
| Sodium | 23-2 | 18380020 | 18380008 | 17859754 | 18206594 | 1.65 | cps |
| Strontium | 86-1 | 7466294 | 7554714 | 7635543 | 7552184 | 1.12 | cps |
| Strontium | 88-1 | 64575866 | 66191431 | 65086131 | 65284476 | 1.26 | cps |
| Sulfur | 34-1 | 1877975 | 1885690 | 1862947 | 1875538 | 0.62 | cps |
| Terbium | 159-1 | 21096382 | 20630413 | 20565227 | 20764007 | 1.40 | cps |
| Terbium | 159-2 | 7248421 | 7182653 | 7097742 | 7176272 | 1.05 | cps |
| Thallium | 203-1 | 967 | 987 | 950 | 968 | 1.90 | cps |
| Thallium | 205-1 | 2130 | 2237 | 2157 | 2175 | 2.55 | cps |
| Tin | 118-1 | 10624 | 10878 | 10591 | 10698 | 1.47 | cps |
| Titanium | 47-1 | 2157 | 2280 | 2334 | 2257 | 4.02 | cps |
| Uranium | 238-1 | 107 | 90 | 113 | 103 | 11.63 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1200-01A | Instrumnet Name : | P8 |
| Client Sample ID : | ME2964A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:01:47 | DataFile Name : | 127AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 8796 | 9140 | 8736 | 8891 | 2.45 | cps |
| Ytterbium | 172-1 | 120 | 160 | 117 | 132 | 18.24 | cps |
| Ytterbium | 172-2 | 67 | 63 | 90 | 73 | 19.81 | cps |
| Ytterbium | 176-1 | 1974 | 2050 | 2057 | 2027 | 2.28 | cps |
| Ytterbium | 176-2 | 320 | 370 | 313 | 334 | 9.26 | cps |
| Yttrium | 89-1 | 29855660 | 29536735 | 29621802 | 29671399 | 0.56 | cps |
| Yttrium | 89-2 | 2169553 | 2166534 | 2191777 | 2175955 | 0.63 | cps |
| Zinc | 66-2 | 2610 | 2570 | 2764 | 2648 | 3.85 | cps |
| Zirconium | 90-1 | 1860 | 1827 | 1763 | 1817 | 2.70 | cps |
| Zirconium | 91-1 | 357 | 390 | 353 | 367 | 5.53 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 183 | 93 | 143 | 140 | 32.21 | cps |
| Antimony | 121-1 | 133 | 133 | 120 | 129 | 5.98 | cps |
| Arsenic | 75-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Barium | 135-1 | 117 | 87 | 97 | 100 | 15.27 | cps |
| Barium | 137-1 | 170 | 127 | 157 | 151 | 14.69 | cps |
| Beryllium | 9-1 | 680 | 679 | 631 | 663 | 4.19 | cps |
| Bismuth | 209-1 | 13226366 | 12868132 | 13029590 | 13041363 | 1.38 | cps |
| Bismuth | 209-2 | 5529971 | 5625985 | 5476001 | 5543986 | 1.37 | cps |
| Bromine | 81-1 | 33139 | 28846 | 25410 | 29132 | 13.29 | cps |
| Cadmium | 108-1 | 27 | 30 | 23 | 27 | 12.51 | cps |
| Cadmium | 106-1 | 9177 | 8983 | 9353 | 9171 | 2.02 | cps |
| Cadmium | 111-1 | 6412 | 6297 | 6564 | 6424 | 2.09 | cps |
| Calcium | 43-1 | 1057 | 1077 | 1017 | 1050 | 2.91 | cps |
| Calcium | 44-1 | 44479 | 41202 | 40862 | 42181 | 4.73 | cps |
| Carbon | 12-1 | 5979986 | 5569361 | 5204699 | 5584682 | 6.95 | cps |
| Carbon | 12-2 | 30939 | 30659 | 29774 | 30457 | 2.00 | cps |
| Chlorine | 35-1 | 2963265 | 2800786 | 2662559 | 2808870 | 5.36 | cps |
| Chlorine | 35-2 | 9630 | 9393 | 9080 | 9368 | 2.95 | cps |
| Chromium | 52-2 | 850 | 857 | 773 | 827 | 5.60 | cps |
| Cobalt | 59-2 | 103 | 130 | 120 | 118 | 11.44 | cps |
| Copper | 63-2 | 3727 | 3560 | 3827 | 3705 | 3.64 | cps |
| Dysprosium | 156-1 | 7 | 3 | 20 | 10 | 88.20 | cps |
| Dysprosium | 156-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Erbium | 164-1 | 107 | 100 | 107 | 104 | 3.69 | cps |
| Erbium | 164-2 | 53 | 33 | 33 | 40 | 28.87 | cps |
| Gadolinium | 160-1 | 107 | 123 | 137 | 122 | 12.30 | cps |
| Gadolinium | 160-2 | 20 | 13 | 33 | 22 | 45.83 | cps |
| Holmium | 165-1 | 21169503 | 20588914 | 20577490 | 20778636 | 1.63 | cps |
| Holmium | 165-2 | 7478656 | 7539409 | 7431627 | 7483230 | 0.72 | cps |
| Indium | 115-1 | 17339391 | 17076685 | 16981560 | 17132545 | 1.08 | cps |
| Indium | 115-2 | 1758624 | 1775913 | 1671330 | 1735289 | 3.23 | cps |
| Iron | 54-2 | 693 | 620 | 593 | 636 | 8.15 | cps |
| Iron | 56-2 | 8669 | 9086 | 9103 | 8953 | 2.74 | cps |
| Iron | 57-2 | 217 | 193 | 220 | 210 | 6.92 | cps |
| Krypton | 83-1 | 287 | 313 | 343 | 314 | 9.02 | cps |
| Lead | 206-1 | 2220 | 1984 | 2020 | 2075 | 6.14 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1920 | 1773 | 1743 | 1812 | 5.22 | cps |
| Lead | 208-1 | 8518 | 8104 | 8094 | 8239 | 2.93 | cps |
| Lithium | 6-1 | 10096924 | 9875620 | 9927693 | 9966746 | 1.16 | cps |
| Magnesium | 24-2 | 4181 | 4591 | 4557 | 4443 | 5.13 | cps |
| Manganese | 55-2 | 347 | 337 | 293 | 326 | 8.71 | cps |
| Molybdenum | 94-1 | 407 | 507 | 470 | 461 | 10.97 | cps |
| Molybdenum | 95-1 | 283 | 267 | 223 | 258 | 12.01 | cps |
| Molybdenum | 96-1 | 330 | 327 | 373 | 343 | 7.58 | cps |
| Molybdenum | 97-1 | 180 | 170 | 157 | 169 | 6.93 | cps |
| Molybdenum | 98-1 | 353 | 467 | 353 | 391 | 16.73 | cps |
| Neodymium | 150-1 | 10 | 3 | 20 | 11 | 75.52 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1250 | 1293 | 1280 | 1275 | 1.74 | cps |
| Phosphorus | 31-2 | 53 | 67 | 83 | 68 | 22.18 | cps |
| Potassium | 39-2 | 24080 | 24391 | 23693 | 24055 | 1.45 | cps |
| Rhodium | 103-1 | 16358421 | 16327764 | 16245769 | 16310651 | 0.36 | cps |
| Rhodium | 103-2 | 6519830 | 6629310 | 6343857 | 6497665 | 2.22 | cps |
| Scandium | 45-1 | 12521292 | 12197146 | 12291108 | 12336515 | 1.35 | cps |
| Scandium | 45-2 | 248174 | 245923 | 238320 | 244139 | 2.11 | cps |
| Selenium | 82-1 | 43 | 0 | 27 | 23 | 93.68 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 3 | 13 | 9 | 57.30 | cps |
| Silicon | 28-1 | 658508 | 642960 | 635395 | 645621 | 1.83 | cps |
| Silver | 107-1 | 417 | 363 | 363 | 381 | 8.08 | cps |
| Silver | 109-1 | 173 | 193 | 187 | 184 | 5.52 | cps |
| Sodium | 23-2 | 72505 | 72954 | 73688 | 73049 | 0.82 | cps |
| Strontium | 86-1 | 1293 | 1020 | 940 | 1085 | 17.09 | cps |
| Strontium | 88-1 | 6478 | 4964 | 4111 | 5184 | 23.13 | cps |
| Sulfur | 34-1 | 1017853 | 1012964 | 1010730 | 1013849 | 0.36 | cps |
| Terbium | 159-1 | 21276601 | 20670504 | 21038158 | 20995087 | 1.45 | cps |
| Terbium | 159-2 | 7190883 | 7376379 | 7033854 | 7200372 | 2.38 | cps |
| Thallium | 203-1 | 767 | 670 | 697 | 711 | 7.02 | cps |
| Thallium | 205-1 | 1730 | 1690 | 1663 | 1695 | 1.98 | cps |
| Tin | 118-1 | 1810 | 1973 | 1837 | 1873 | 4.68 | cps |
| Titanium | 47-1 | 313 | 250 | 250 | 271 | 13.49 | cps |
| Uranium | 238-1 | 33 | 50 | 37 | 40 | 22.05 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:04:59 | DataFile Name : | 128CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 27 | 17 | 10 | 18 | 47.19 | cps |
| Ytterbium | 172-1 | 133 | 137 | 133 | 134 | 1.43 | cps |
| Ytterbium | 172-2 | 67 | 63 | 73 | 68 | 7.51 | cps |
| Ytterbium | 176-1 | 2050 | 1863 | 1927 | 1947 | 4.88 | cps |
| Ytterbium | 176-2 | 333 | 363 | 353 | 350 | 4.36 | cps |
| Yttrium | 89-1 | 30616748 | 30229846 | 29948091 | 30264895 | 1.11 | cps |
| Yttrium | 89-2 | 2245744 | 2230263 | 2143752 | 2206587 | 2.49 | cps |
| Zinc | 66-2 | 657 | 607 | 607 | 623 | 4.63 | cps |
| Zirconium | 90-1 | 917 | 1040 | 1143 | 1033 | 10.98 | cps |
| Zirconium | 91-1 | 177 | 177 | 197 | 183 | 6.30 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3557 | 3454 | 3307 | 3439 | 3.65 | cps |
| Antimony | 121-1 | 74217 | 74475 | 75239 | 74643 | 0.71 | cps |
| Arsenic | 75-2 | 700 | 773 | 930 | 801 | 14.67 | cps |
| Barium | 135-1 | 86366 | 86480 | 86927 | 86591 | 0.34 | cps |
| Barium | 137-1 | 152240 | 152107 | 151653 | 152000 | 0.20 | cps |
| Beryllium | 9-1 | 15228 | 15178 | 15085 | 15164 | 0.48 | cps |
| Bismuth | 209-1 | 12746760 | 12705111 | 12472804 | 12641558 | 1.17 | cps |
| Bismuth | 209-2 | 5594151 | 5505548 | 5434922 | 5511541 | 1.45 | cps |
| Bromine | 81-1 | 13747 | 12936 | 12509 | 13064 | 4.81 | cps |
| Cadmium | 108-1 | 753 | 743 | 833 | 777 | 6.35 | cps |
| Cadmium | 106-1 | 9987 | 10107 | 10090 | 10062 | 0.65 | cps |
| Cadmium | 111-1 | 15673 | 15688 | 15450 | 15604 | 0.86 | cps |
| Calcium | 43-1 | 65549 | 65903 | 65803 | 65752 | 0.28 | cps |
| Calcium | 44-1 | 1081428 | 1086998 | 1087996 | 1085474 | 0.33 | cps |
| Carbon | 12-1 | 4388123 | 4407541 | 4356894 | 4384186 | 0.58 | cps |
| Carbon | 12-2 | 27185 | 26751 | 27078 | 27005 | 0.84 | cps |
| Chlorine | 35-1 | 3482127 | 3649476 | 3757695 | 3629766 | 3.82 | cps |
| Chlorine | 35-2 | 15438 | 15325 | 15515 | 15426 | 0.62 | cps |
| Chromium | 52-2 | 18215 | 17771 | 17941 | 17976 | 1.25 | cps |
| Cobalt | 59-2 | 16827 | 17271 | 17287 | 17128 | 1.52 | cps |
| Copper | 63-2 | 31872 | 31461 | 32013 | 31782 | 0.90 | cps |
| Dysprosium | 156-1 | 20 | 40 | 7 | 22 | 75.49 | cps |
| Dysprosium | 156-2 | 7 | 7 | 13 | 9 | 43.25 | cps |
| Erbium | 164-1 | 93 | 117 | 120 | 110 | 13.21 | cps |
| Erbium | 164-2 | 47 | 33 | 33 | 38 | 20.39 | cps |
| Gadolinium | 160-1 | 90 | 93 | 147 | 110 | 28.91 | cps |
| Gadolinium | 160-2 | 27 | 50 | 7 | 28 | 78.06 | cps |
| Holmium | 165-1 | 20738157 | 20386979 | 20630771 | 20585302 | 0.87 | cps |
| Holmium | 165-2 | 7379629 | 7460997 | 7324270 | 7388299 | 0.93 | cps |
| Indium | 115-1 | 17095729 | 16680089 | 16876049 | 16883956 | 1.23 | cps |
| Indium | 115-2 | 1686926 | 1719830 | 1705572 | 1704109 | 0.97 | cps |
| Iron | 54-2 | 73186 | 71377 | 71504 | 72023 | 1.40 | cps |
| Iron | 56-2 | 1328347 | 1322947 | 1321858 | 1324384 | 0.26 | cps |
| Iron | 57-2 | 33569 | 33566 | 33078 | 33405 | 0.85 | cps |
| Krypton | 83-1 | 337 | 303 | 307 | 316 | 5.82 | cps |
| Lead | 206-1 | 29697 | 29006 | 29604 | 29436 | 1.27 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 25832 | 25756 | 25662 | 25750 | 0.33 | cps |
| Lead | 208-1 | 118355 | 118591 | 117706 | 118217 | 0.39 | cps |
| Lithium | 6-1 | 10102089 | 10077382 | 9930646 | 10036705 | 0.92 | cps |
| Magnesium | 24-2 | 293288 | 295272 | 291887 | 293483 | 0.58 | cps |
| Manganese | 55-2 | 4067 | 4157 | 3767 | 3997 | 5.11 | cps |
| Molybdenum | 94-1 | 77276 | 77240 | 76968 | 77161 | 0.22 | cps |
| Molybdenum | 95-1 | 92412 | 93046 | 91354 | 92271 | 0.93 | cps |
| Molybdenum | 96-1 | 103593 | 103169 | 103774 | 103512 | 0.30 | cps |
| Molybdenum | 97-1 | 57060 | 58329 | 56953 | 57447 | 1.33 | cps |
| Molybdenum | 98-1 | 148542 | 148185 | 145577 | 147435 | 1.10 | cps |
| Neodymium | 150-1 | 33 | 20 | 43 | 32 | 36.33 | cps |
| Neodymium | 150-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Nickel | 60-2 | 6021 | 6181 | 5838 | 6014 | 2.86 | cps |
| Phosphorus | 31-2 | 267 | 257 | 273 | 266 | 3.16 | cps |
| Potassium | 39-2 | 188372 | 186079 | 187647 | 187366 | 0.63 | cps |
| Rhodium | 103-1 | 16331657 | 16034266 | 15672556 | 16012826 | 2.06 | cps |
| Rhodium | 103-2 | 6319580 | 6392952 | 6430286 | 6380939 | 0.88 | cps |
| Scandium | 45-1 | 12115969 | 12226114 | 12050947 | 12131010 | 0.73 | cps |
| Scandium | 45-2 | 241371 | 240029 | 239385 | 240262 | 0.42 | cps |
| Selenium | 82-1 | 2967 | 3024 | 2984 | 2992 | 0.97 | cps |
| Selenium | 77-2 | 40 | 23 | 33 | 32 | 26.04 | cps |
| Selenium | 78-2 | 190 | 170 | 150 | 170 | 11.76 | cps |
| Silicon | 28-1 | 883262 | 969150 | 966510 | 939641 | 5.20 | cps |
| Silver | 107-1 | 45351 | 45906 | 46174 | 45810 | 0.92 | cps |
| Silver | 109-1 | 43020 | 43763 | 44150 | 43644 | 1.32 | cps |
| Sodium | 23-2 | 682360 | 672478 | 670124 | 674987 | 0.96 | cps |
| Strontium | 86-1 | 12729 | 12609 | 12662 | 12667 | 0.47 | cps |
| Strontium | 88-1 | 106687 | 105995 | 107641 | 106774 | 0.77 | cps |
| Sulfur | 34-1 | 1014752 | 994238 | 985423 | 998138 | 1.51 | cps |
| Terbium | 159-1 | 21116382 | 21262457 | 20646026 | 21008288 | 1.53 | cps |
| Terbium | 159-2 | 7233092 | 7144732 | 7043471 | 7140431 | 1.33 | cps |
| Thallium | 203-1 | 34777 | 35208 | 35124 | 35036 | 0.65 | cps |
| Thallium | 205-1 | 84319 | 84063 | 84687 | 84356 | 0.37 | cps |
| Tin | 118-1 | 149398 | 152576 | 149741 | 150571 | 1.16 | cps |
| Titanium | 47-1 | 7662 | 7692 | 7756 | 7703 | 0.62 | cps |
| Uranium | 238-1 | 105779 | 106761 | 106273 | 106271 | 0.46 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:08:20 | DataFile Name : | 129LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 35517 | 34916 | 34816 | 35083 | 1.08 | cps |
| Ytterbium | 172-1 | 123 | 117 | 140 | 127 | 9.49 | cps |
| Ytterbium | 172-2 | 47 | 50 | 47 | 48 | 4.02 | cps |
| Ytterbium | 176-1 | 2324 | 2354 | 2194 | 2290 | 3.71 | cps |
| Ytterbium | 176-2 | 320 | 427 | 383 | 377 | 14.24 | cps |
| Yttrium | 89-1 | 30020640 | 29727902 | 29826517 | 29858353 | 0.50 | cps |
| Yttrium | 89-2 | 2153006 | 2171568 | 2161497 | 2162024 | 0.43 | cps |
| Zinc | 66-2 | 7565 | 7369 | 7662 | 7532 | 1.99 | cps |
| Zirconium | 90-1 | 63922 | 65134 | 65382 | 64813 | 1.21 | cps |
| Zirconium | 91-1 | 14327 | 14758 | 14471 | 14519 | 1.51 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 230 | 247 | 207 | 228 | 8.82 | cps |
| Antimony | 121-1 | 150 | 150 | 143 | 148 | 2.60 | cps |
| Arsenic | 75-2 | 13 | 0 | 0 | 4 | 173.21 | cps |
| Barium | 135-1 | 180 | 183 | 250 | 204 | 19.31 | cps |
| Barium | 137-1 | 353 | 307 | 363 | 341 | 8.87 | cps |
| Beryllium | 9-1 | 599 | 647 | 560 | 602 | 7.28 | cps |
| Bismuth | 209-1 | 12876771 | 13154187 | 13035415 | 13022125 | 1.07 | cps |
| Bismuth | 209-2 | 5537205 | 5436342 | 5318960 | 5430836 | 2.01 | cps |
| Bromine | 81-1 | 9130 | 8643 | 8476 | 8749 | 3.88 | cps |
| Cadmium | 108-1 | 10 | 20 | 23 | 18 | 39.03 | cps |
| Cadmium | 106-1 | 9166 | 9053 | 9116 | 9112 | 0.62 | cps |
| Cadmium | 111-1 | 6423 | 6363 | 6409 | 6398 | 0.49 | cps |
| Calcium | 43-1 | 957 | 900 | 907 | 921 | 3.36 | cps |
| Calcium | 44-1 | 39217 | 39441 | 39364 | 39340 | 0.29 | cps |
| Carbon | 12-1 | 5150368 | 5638162 | 5942125 | 5576885 | 7.16 | cps |
| Carbon | 12-2 | 39777 | 40185 | 41275 | 40412 | 1.92 | cps |
| Chlorine | 35-1 | 1252466 | 1200593 | 1097279 | 1183446 | 6.68 | cps |
| Chlorine | 35-2 | 4097 | 3961 | 3904 | 3987 | 2.49 | cps |
| Chromium | 52-2 | 2067 | 1927 | 2017 | 2003 | 3.54 | cps |
| Cobalt | 59-2 | 110 | 103 | 153 | 122 | 22.21 | cps |
| Copper | 63-2 | 3651 | 3664 | 3324 | 3546 | 5.43 | cps |
| Dysprosium | 156-1 | 17 | 3 | 7 | 9 | 78.08 | cps |
| Dysprosium | 156-2 | 0 | 10 | 10 | 7 | 86.60 | cps |
| Erbium | 164-1 | 153 | 100 | 93 | 116 | 28.46 | cps |
| Erbium | 164-2 | 30 | 40 | 50 | 40 | 25.00 | cps |
| Gadolinium | 160-1 | 133 | 123 | 103 | 120 | 12.73 | cps |
| Gadolinium | 160-2 | 37 | 47 | 17 | 33 | 45.82 | cps |
| Holmium | 165-1 | 20907143 | 20846976 | 20974382 | 20909500 | 0.30 | cps |
| Holmium | 165-2 | 7390860 | 7304764 | 6955964 | 7217196 | 3.19 | cps |
| Indium | 115-1 | 17220728 | 17223822 | 16958391 | 17134314 | 0.89 | cps |
| Indium | 115-2 | 1678447 | 1655964 | 1646462 | 1660291 | 0.99 | cps |
| Iron | 54-2 | 870 | 870 | 893 | 878 | 1.54 | cps |
| Iron | 56-2 | 13156 | 12936 | 12973 | 13022 | 0.91 | cps |
| Iron | 57-2 | 290 | 283 | 327 | 300 | 7.78 | cps |
| Krypton | 83-1 | 283 | 303 | 300 | 296 | 3.63 | cps |
| Lead | 206-1 | 2967 | 2734 | 2867 | 2856 | 4.10 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2504 | 2504 | 2344 | 2450 | 3.77 | cps |
| Lead | 208-1 | 11642 | 11182 | 11022 | 11282 | 2.85 | cps |
| Lithium | 6-1 | 10209876 | 10162623 | 10103904 | 10158801 | 0.52 | cps |
| Magnesium | 24-2 | 4898 | 4714 | 4961 | 4858 | 2.64 | cps |
| Manganese | 55-2 | 833 | 757 | 917 | 836 | 9.58 | cps |
| Molybdenum | 94-1 | 453 | 560 | 540 | 518 | 10.95 | cps |
| Molybdenum | 95-1 | 210 | 203 | 163 | 192 | 13.13 | cps |
| Molybdenum | 96-1 | 243 | 230 | 240 | 238 | 2.92 | cps |
| Molybdenum | 97-1 | 150 | 110 | 127 | 129 | 15.59 | cps |
| Molybdenum | 98-1 | 247 | 247 | 243 | 246 | 0.78 | cps |
| Neodymium | 150-1 | 23 | 13 | 20 | 19 | 26.96 | cps |
| Neodymium | 150-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1127 | 1270 | 1163 | 1187 | 6.28 | cps |
| Phosphorus | 31-2 | 50 | 100 | 53 | 68 | 41.25 | cps |
| Potassium | 39-2 | 18742 | 18465 | 18936 | 18714 | 1.26 | cps |
| Rhodium | 103-1 | 16530386 | 15989324 | 16163671 | 16227793 | 1.70 | cps |
| Rhodium | 103-2 | 6346675 | 6195258 | 6079844 | 6207259 | 2.16 | cps |
| Scandium | 45-1 | 12457686 | 12258001 | 12091689 | 12269126 | 1.49 | cps |
| Scandium | 45-2 | 239034 | 233983 | 229068 | 234028 | 2.13 | cps |
| Selenium | 82-1 | 7 | -63 | -93 | -50 | -102.64 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Silicon | 28-1 | 813572 | 819373 | 824874 | 819273 | 0.69 | cps |
| Silver | 107-1 | 527 | 510 | 490 | 509 | 3.61 | cps |
| Silver | 109-1 | 320 | 303 | 283 | 302 | 6.07 | cps |
| Sodium | 23-2 | 80480 | 80178 | 80088 | 80249 | 0.26 | cps |
| Strontium | 86-1 | 827 | 920 | 800 | 849 | 7.42 | cps |
| Strontium | 88-1 | 4221 | 4464 | 4107 | 4264 | 4.28 | cps |
| Sulfur | 34-1 | 997305 | 956437 | 975392 | 976378 | 2.09 | cps |
| Terbium | 159-1 | 21250961 | 21269801 | 20960823 | 21160528 | 0.82 | cps |
| Terbium | 159-2 | 7047595 | 7022613 | 6718135 | 6929448 | 2.65 | cps |
| Thallium | 203-1 | 643 | 540 | 580 | 588 | 8.86 | cps |
| Thallium | 205-1 | 1483 | 1480 | 1290 | 1418 | 7.81 | cps |
| Tin | 118-1 | 3370 | 3010 | 3250 | 3210 | 5.71 | cps |
| Titanium | 47-1 | 373 | 343 | 243 | 320 | 21.27 | cps |
| Uranium | 238-1 | 40 | 50 | 67 | 52 | 25.80 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:11:38 | DataFile Name : | 130AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3 | 13 | 20 | 12 | 68.66 | cps |
| Ytterbium | 172-1 | 117 | 150 | 133 | 133 | 12.50 | cps |
| Ytterbium | 172-2 | 27 | 60 | 47 | 44 | 37.74 | cps |
| Ytterbium | 176-1 | 2237 | 1934 | 2014 | 2061 | 7.63 | cps |
| Ytterbium | 176-2 | 327 | 320 | 323 | 323 | 1.03 | cps |
| Yttrium | 89-1 | 30595300 | 29865875 | 29909489 | 30123555 | 1.36 | cps |
| Yttrium | 89-2 | 2184752 | 2119178 | 2091416 | 2131782 | 2.25 | cps |
| Zinc | 66-2 | 283 | 263 | 273 | 273 | 3.66 | cps |
| Zirconium | 90-1 | 1030 | 1093 | 1070 | 1064 | 3.01 | cps |
| Zirconium | 91-1 | 233 | 197 | 230 | 220 | 9.22 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 123 | 193 | 157 | 158 | 22.19 | cps |
| Antimony | 121-1 | 140 | 80 | 120 | 113 | 26.96 | cps |
| Arsenic | 75-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Barium | 135-1 | 167 | 177 | 190 | 178 | 6.58 | cps |
| Barium | 137-1 | 210 | 263 | 273 | 249 | 13.68 | cps |
| Beryllium | 9-1 | 610 | 621 | 587 | 606 | 2.83 | cps |
| Bismuth | 209-1 | 13560246 | 13090179 | 13073526 | 13241317 | 2.09 | cps |
| Bismuth | 209-2 | 5616740 | 5649540 | 5572291 | 5612857 | 0.69 | cps |
| Bromine | 81-1 | 7045 | 6628 | 6775 | 6816 | 3.10 | cps |
| Cadmium | 108-1 | 13 | 30 | 40 | 28 | 48.51 | cps |
| Cadmium | 106-1 | 9390 | 9183 | 9173 | 9249 | 1.32 | cps |
| Cadmium | 111-1 | 6584 | 6434 | 6423 | 6480 | 1.38 | cps |
| Calcium | 43-1 | 1020 | 833 | 910 | 921 | 10.19 | cps |
| Calcium | 44-1 | 39344 | 39547 | 38478 | 39123 | 1.45 | cps |
| Carbon | 12-1 | 5604158 | 5998760 | 6292415 | 5965111 | 5.79 | cps |
| Carbon | 12-2 | 41124 | 41739 | 43193 | 42019 | 2.53 | cps |
| Chlorine | 35-1 | 824286 | 806053 | 785596 | 805312 | 2.40 | cps |
| Chlorine | 35-2 | 2954 | 3127 | 3040 | 3040 | 2.85 | cps |
| Chromium | 52-2 | 1593 | 1790 | 1670 | 1685 | 5.89 | cps |
| Cobalt | 59-2 | 113 | 77 | 93 | 94 | 19.44 | cps |
| Copper | 63-2 | 3447 | 3677 | 3290 | 3472 | 5.60 | cps |
| Dysprosium | 156-1 | 17 | 20 | 13 | 17 | 20.01 | cps |
| Dysprosium | 156-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 117 | 90 | 123 | 110 | 16.04 | cps |
| Erbium | 164-2 | 20 | 27 | 67 | 38 | 66.81 | cps |
| Gadolinium | 160-1 | 150 | 100 | 123 | 124 | 20.10 | cps |
| Gadolinium | 160-2 | 47 | 23 | 27 | 32 | 39.17 | cps |
| Holmium | 165-1 | 21347342 | 20988046 | 20416420 | 20917269 | 2.24 | cps |
| Holmium | 165-2 | 7377339 | 7545911 | 7342003 | 7421751 | 1.47 | cps |
| Indium | 115-1 | 17938056 | 17194233 | 17073670 | 17401986 | 2.69 | cps |
| Indium | 115-2 | 1704371 | 1734503 | 1706925 | 1715267 | 0.97 | cps |
| Iron | 54-2 | 1230 | 1257 | 1087 | 1191 | 7.68 | cps |
| Iron | 56-2 | 18976 | 19500 | 20221 | 19566 | 3.19 | cps |
| Iron | 57-2 | 570 | 483 | 493 | 516 | 9.20 | cps |
| Krypton | 83-1 | 273 | 213 | 273 | 253 | 13.67 | cps |
| Lead | 206-1 | 2040 | 2050 | 1987 | 2026 | 1.68 | cps |

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On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1863 | 1593 | 1687 | 1715 | 8.00 | cps |
| Lead | 208-1 | 8561 | 7948 | 7744 | 8084 | 5.26 | cps |
| Lithium | 6-1 | 10340232 | 10018861 | 10004243 | 10121112 | 1.88 | cps |
| Magnesium | 24-2 | 5191 | 5054 | 5258 | 5168 | 2.01 | cps |
| Manganese | 55-2 | 3084 | 3167 | 3190 | 3147 | 1.78 | cps |
| Molybdenum | 94-1 | 533 | 507 | 527 | 522 | 2.66 | cps |
| Molybdenum | 95-1 | 203 | 187 | 177 | 189 | 7.13 | cps |
| Molybdenum | 96-1 | 253 | 247 | 243 | 248 | 2.06 | cps |
| Molybdenum | 97-1 | 120 | 87 | 83 | 97 | 20.98 | cps |
| Molybdenum | 98-1 | 233 | 213 | 280 | 242 | 14.12 | cps |
| Neodymium | 150-1 | 17 | 27 | 13 | 19 | 36.75 | cps |
| Neodymium | 150-2 | 10 | 0 | 0 | 3 | 173.21 | cps |
| Nickel | 60-2 | 1307 | 1293 | 1453 | 1351 | 6.57 | cps |
| Phosphorus | 31-2 | 63 | 70 | 67 | 67 | 5.00 | cps |
| Potassium | 39-2 | 19166 | 19220 | 19477 | 19287 | 0.86 | cps |
| Rhodium | 103-1 | 16771138 | 16153869 | 16174289 | 16366432 | 2.14 | cps |
| Rhodium | 103-2 | 6548027 | 6463506 | 6350753 | 6454095 | 1.53 | cps |
| Scandium | 45-1 | 12761454 | 12360805 | 12346363 | 12489541 | 1.89 | cps |
| Scandium | 45-2 | 238698 | 239559 | 239867 | 239374 | 0.25 | cps |
| Selenium | 82-1 | -7 | 20 | -57 | -14 | -269.42 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 10 | 10 | 20 | 13 | 43.30 | cps |
| Silicon | 28-1 | 608358 | 617019 | 627637 | 617671 | 1.56 | cps |
| Silver | 107-1 | 313 | 287 | 333 | 311 | 7.53 | cps |
| Silver | 109-1 | 157 | 190 | 140 | 162 | 15.69 | cps |
| Sodium | 23-2 | 129552 | 128214 | 128361 | 128709 | 0.57 | cps |
| Strontium | 86-1 | 467 | 560 | 583 | 537 | 11.50 | cps |
| Strontium | 88-1 | 1690 | 1703 | 1663 | 1686 | 1.21 | cps |
| Sulfur | 34-1 | 988681 | 994179 | 986708 | 989856 | 0.39 | cps |
| Terbium | 159-1 | 22302898 | 21355260 | 21198957 | 21619038 | 2.76 | cps |
| Terbium | 159-2 | 7181101 | 7212307 | 7215317 | 7202908 | 0.26 | cps |
| Thallium | 203-1 | 677 | 553 | 450 | 560 | 20.26 | cps |
| Thallium | 205-1 | 1337 | 1283 | 1140 | 1253 | 8.12 | cps |
| Tin | 118-1 | 2587 | 2467 | 2660 | 2571 | 3.80 | cps |
| Titanium | 47-1 | 347 | 403 | 247 | 332 | 23.88 | cps |
| Uranium | 238-1 | 37 | 23 | 23 | 28 | 27.73 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | Q1223-17 | Instrumnet Name : | P8 |
| Client Sample ID : | A6310 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:14:59 | DataFile Name : | 131AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17 | 43 | 13 | 24 | 67.26 | cps |
| Ytterbium | 172-1 | 93 | 100 | 130 | 108 | 18.12 | cps |
| Ytterbium | 172-2 | 43 | 43 | 43 | 43 | 0.00 | cps |
| Ytterbium | 176-1 | 2174 | 2000 | 2170 | 2115 | 4.69 | cps |
| Ytterbium | 176-2 | 327 | 310 | 343 | 327 | 5.10 | cps |
| Yttrium | 89-1 | 31703748 | 30483279 | 30095424 | 30760817 | 2.73 | cps |
| Yttrium | 89-2 | 2192880 | 2230967 | 2217447 | 2213765 | 0.87 | cps |
| Zinc | 66-2 | 270 | 293 | 277 | 280 | 4.29 | cps |
| Zirconium | 90-1 | 1153 | 983 | 1050 | 1062 | 8.06 | cps |
| Zirconium | 91-1 | 190 | 207 | 163 | 187 | 11.71 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3817099 | 3713247 | 3714835 | 3748394 | 1.59 | cps |
| Antimony | 121-1 | 8134081 | 8149523 | 8090330 | 8124644 | 0.38 | cps |
| Arsenic | 75-2 | 173454 | 174313 | 174684 | 174151 | 0.36 | cps |
| Barium | 135-1 | 9686434 | 9859643 | 9741236 | 9762438 | 0.91 | cps |
| Barium | 137-1 | 16711770 | 17022066 | 16993717 | 16909184 | 1.01 | cps |
| Beryllium | 9-1 | 3050084 | 3023258 | 3076331 | 3049891 | 0.87 | cps |
| Bismuth | 209-1 | 11145529 | 10925203 | 11002541 | 11024424 | 1.01 | cps |
| Bismuth | 209-2 | 4876597 | 4873621 | 4802522 | 4850913 | 0.86 | cps |
| Bromine | 81-1 | 5905 | 5855 | 6088 | 5949 | 2.07 | cps |
| Cadmium | 108-1 | 159506 | 159100 | 158186 | 158931 | 0.43 | cps |
| Cadmium | 106-1 | 234035 | 233138 | 232795 | 233323 | 0.27 | cps |
| Cadmium | 111-1 | 1971705 | 2000982 | 1976026 | 1982904 | 0.80 | cps |
| Calcium | 43-1 | 14137429 | 14149540 | 14361845 | 14216271 | 0.89 | cps |
| Calcium | 44-1 | 227965877 | 232184457 | 229220037 | 229790123 | 0.94 | cps |
| Carbon | 12-1 | 5790350 | 5891776 | 6091438 | 5924521 | 2.59 | cps |
| Carbon | 12-2 | 45500 | 46135 | 45671 | 45769 | 0.72 | cps |
| Chlorine | 35-1 | 519554 | 514665 | 512425 | 515548 | 0.71 | cps |
| Chlorine | 35-2 | 1933 | 2004 | 2084 | 2007 | 3.74 | cps |
| Chromium | 52-2 | 1968952 | 1948750 | 1942404 | 1953369 | 0.71 | cps |
| Cobalt | 59-2 | 3680225 | 3642349 | 3697421 | 3673332 | 0.77 | cps |
| Copper | 63-2 | 26807432 | 26661860 | 26691086 | 26720126 | 0.29 | cps |
| Dysprosium | 156-1 | 490 | 427 | 510 | 476 | 9.15 | cps |
| Dysprosium | 156-2 | 133 | 73 | 117 | 108 | 28.74 | cps |
| Erbium | 164-1 | 413 | 477 | 357 | 416 | 14.45 | cps |
| Erbium | 164-2 | 140 | 177 | 153 | 157 | 11.85 | cps |
| Gadolinium | 160-1 | 443 | 460 | 430 | 444 | 3.38 | cps |
| Gadolinium | 160-2 | 170 | 100 | 183 | 151 | 29.62 | cps |
| Holmium | 165-1 | 19573912 | 18892531 | 19067247 | 19177897 | 1.85 | cps |
| Holmium | 165-2 | 7108152 | 7044166 | 7060311 | 7070876 | 0.47 | cps |
| Indium | 115-1 | 14932032 | 14855530 | 14950625 | 14912729 | 0.34 | cps |
| Indium | 115-2 | 1543125 | 1484039 | 1520091 | 1515752 | 1.96 | cps |
| Iron | 54-2 | 19713612 | 19542981 | 19283018 | 19513204 | 1.11 | cps |
| Iron | 56-2 | 355173168 | 358402248 | 352598981 | 355391466 | 0.82 | cps |
| Iron | 57-2 | 9060862 | 8999774 | 9055954 | 9038863 | 0.38 | cps |
| Krypton | 83-1 | 323 | 307 | 287 | 306 | 6.01 | cps |
| Lead | 206-1 | 30506098 | 30585222 | 30315508 | 30468943 | 0.46 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26117323 | 26331855 | 25854298 | 26101159 | 0.92 | cps |
| Lead | 208-1 | 121084767 | 121125130 | 119938365 | 120716087 | 0.56 | cps |
| Lithium | 6-1 | 9082385 | 8919122 | 8773148 | 8924885 | 1.73 | cps |
| Magnesium | 24-2 | 66068654 | 66332417 | 64840206 | 65747092 | 1.21 | cps |
| Manganese | 55-2 | 7764332 | 7895635 | 7744172 | 7801380 | 1.05 | cps |
| Molybdenum | 94-1 | 29281030 | 30117688 | 29261425 | 29553381 | 1.65 | cps |
| Molybdenum | 95-1 | 42382280 | 42102794 | 41398075 | 41961050 | 1.21 | cps |
| Molybdenum | 96-1 | 46340876 | 46731189 | 46649891 | 46573985 | 0.44 | cps |
| Molybdenum | 97-1 | 25921270 | 25913224 | 26484596 | 26106363 | 1.25 | cps |
| Molybdenum | 98-1 | 67690796 | 68370292 | 68578691 | 68213260 | 0.68 | cps |
| Neodymium | 150-1 | 663 | 737 | 700 | 700 | 5.24 | cps |
| Neodymium | 150-2 | 60 | 53 | 47 | 53 | 12.50 | cps |
| Nickel | 60-2 | 1067516 | 1061134 | 1068222 | 1065624 | 0.37 | cps |
| Phosphorus | 31-2 | 36379 | 36011 | 36332 | 36241 | 0.55 | cps |
| Potassium | 39-2 | 19343522 | 19117490 | 18966298 | 19142437 | 0.99 | cps |
| Rhodium | 103-1 | 13784182 | 13266755 | 13773599 | 13608179 | 2.17 | cps |
| Rhodium | 103-2 | 5537415 | 5542928 | 5493798 | 5524714 | 0.49 | cps |
| Scandium | 45-1 | 11358769 | 11226323 | 11366600 | 11317231 | 0.70 | cps |
| Scandium | 45-2 | 231236 | 228763 | 230577 | 230192 | 0.56 | cps |
| Selenium | 82-1 | 122583 | 122963 | 121191 | 122246 | 0.76 | cps |
| Selenium | 77-2 | 2220 | 2284 | 2084 | 2196 | 4.66 | cps |
| Selenium | 78-2 | 7319 | 7605 | 7545 | 7490 | 2.02 | cps |
| Silicon | 28-1 | 7478043 | 7340813 | 7316448 | 7378435 | 1.18 | cps |
| Silver | 107-1 | 9886458 | 9942735 | 9686405 | 9838533 | 1.37 | cps |
| Silver | 109-1 | 9324890 | 9258465 | 9084443 | 9222599 | 1.35 | cps |
| Sodium | 23-2 | 135147358 | 133116521 | 132889331 | 133717737 | 0.93 | cps |
| Strontium | 86-1 | 2720542 | 2774434 | 2785511 | 2760162 | 1.26 | cps |
| Strontium | 88-1 | 23375475 | 23859483 | 24083481 | 23772813 | 1.52 | cps |
| Sulfur | 34-1 | 1629236 | 1603090 | 1599335 | 1610554 | 1.01 | cps |
| Terbium | 159-1 | 19844679 | 19455556 | 19292836 | 19531024 | 1.45 | cps |
| Terbium | 159-2 | 6825766 | 6852299 | 6779706 | 6819257 | 0.54 | cps |
| Thallium | 203-1 | 7573716 | 7518244 | 7376341 | 7489433 | 1.36 | cps |
| Thallium | 205-1 | 18057735 | 18142651 | 18084056 | 18094814 | 0.24 | cps |
| Tin | 118-1 | 6464690 | 6451611 | 6452107 | 6456136 | 0.11 | cps |
| Titanium | 47-1 | 13496406 | 13390980 | 13667136 | 13518174 | 1.03 | cps |
| Uranium | 238-1 | 24885900 | 24664076 | 24403866 | 24651281 | 0.98 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCV008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:22:56 | DataFile Name : | 133CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1563366 | 1576872 | 1568775 | 1569671 | 0.43 | cps |
| Ytterbium | 172-1 | 503 | 413 | 493 | 470 | 10.50 | cps |
| Ytterbium | 172-2 | 173 | 237 | 173 | 194 | 18.80 | cps |
| Ytterbium | 176-1 | 37894 | 38834 | 38733 | 38487 | 1.34 | cps |
| Ytterbium | 176-2 | 13811 | 13247 | 14191 | 13750 | 3.46 | cps |
| Yttrium | 89-1 | 27638800 | 27548702 | 27510380 | 27565960 | 0.24 | cps |
| Yttrium | 89-2 | 2083211 | 2055876 | 2036625 | 2058570 | 1.14 | cps |
| Zinc | 66-2 | 2914623 | 2913864 | 2920902 | 2916463 | 0.13 | cps |
| Zirconium | 90-1 | 14717945 | 15128159 | 14548981 | 14798362 | 2.01 | cps |
| Zirconium | 91-1 | 3291743 | 3380108 | 3273550 | 3315134 | 1.72 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 163 | 157 | 180 | 167 | 7.21 | cps |
| Antimony | 121-1 | 3060 | 2717 | 2270 | 2683 | 14.77 | cps |
| Arsenic | 75-2 | 7 | 7 | 20 | 11 | 69.25 | cps |
| Barium | 135-1 | 657 | 473 | 403 | 511 | 25.60 | cps |
| Barium | 137-1 | 1073 | 870 | 677 | 873 | 22.71 | cps |
| Beryllium | 9-1 | 1951 | 1841 | 1662 | 1818 | 8.02 | cps |
| Bismuth | 209-1 | 12847865 | 12857383 | 12914101 | 12873116 | 0.28 | cps |
| Bismuth | 209-2 | 5426447 | 5395756 | 5546765 | 5456322 | 1.46 | cps |
| Bromine | 81-1 | 5625 | 5655 | 5598 | 5626 | 0.50 | cps |
| Cadmium | 108-1 | 53 | 50 | 23 | 42 | 38.95 | cps |
| Cadmium | 106-1 | 8716 | 8429 | 8399 | 8515 | 2.05 | cps |
| Cadmium | 111-1 | 6227 | 6012 | 5993 | 6078 | 2.14 | cps |
| Calcium | 43-1 | 1373 | 1157 | 1083 | 1205 | 12.52 | cps |
| Calcium | 44-1 | 45532 | 42479 | 39995 | 42669 | 6.50 | cps |
| Carbon | 12-1 | 4162319 | 4038204 | 3967446 | 4055990 | 2.43 | cps |
| Carbon | 12-2 | 24604 | 24768 | 25379 | 24917 | 1.64 | cps |
| Chlorine | 35-1 | 444557 | 435469 | 431245 | 437090 | 1.56 | cps |
| Chlorine | 35-2 | 1640 | 1637 | 1740 | 1672 | 3.51 | cps |
| Chromium | 52-2 | 830 | 863 | 893 | 862 | 3.67 | cps |
| Cobalt | 59-2 | 190 | 223 | 170 | 194 | 13.86 | cps |
| Copper | 63-2 | 3791 | 3921 | 3841 | 3851 | 1.70 | cps |
| Dysprosium | 156-1 | 17 | 23 | 17 | 19 | 20.36 | cps |
| Dysprosium | 156-2 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Erbium | 164-1 | 113 | 100 | 133 | 116 | 14.52 | cps |
| Erbium | 164-2 | 23 | 40 | 43 | 36 | 30.14 | cps |
| Gadolinium | 160-1 | 113 | 123 | 103 | 113 | 8.82 | cps |
| Gadolinium | 160-2 | 13 | 27 | 17 | 19 | 36.75 | cps |
| Holmium | 165-1 | 20976475 | 20640560 | 20079916 | 20565650 | 2.20 | cps |
| Holmium | 165-2 | 7305318 | 7158543 | 7457284 | 7307048 | 2.04 | cps |
| Indium | 115-1 | 17348882 | 16922505 | 16938079 | 17069822 | 1.42 | cps |
| Indium | 115-2 | 1698996 | 1661037 | 1730608 | 1696880 | 2.05 | cps |
| Iron | 54-2 | 1000 | 1073 | 1193 | 1089 | 8.96 | cps |
| Iron | 56-2 | 16066 | 16807 | 17541 | 16804 | 4.39 | cps |
| Iron | 57-2 | 453 | 377 | 397 | 409 | 9.72 | cps |
| Krypton | 83-1 | 323 | 197 | 300 | 273 | 24.66 | cps |
| Lead | 206-1 | 6071 | 5545 | 4834 | 5483 | 11.32 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5274 | 4804 | 4141 | 4740 | 12.02 | cps |
| Lead | 208-1 | 24039 | 22058 | 19226 | 21774 | 11.11 | cps |
| Lithium | 6-1 | 10017723 | 10075243 | 9875734 | 9989567 | 1.03 | cps |
| Magnesium | 24-2 | 4644 | 4761 | 4818 | 4741 | 1.86 | cps |
| Manganese | 55-2 | 557 | 463 | 633 | 551 | 15.45 | cps |
| Molybdenum | 94-1 | 2644 | 2264 | 1847 | 2251 | 17.70 | cps |
| Molybdenum | 95-1 | 3117 | 2374 | 1957 | 2482 | 23.67 | cps |
| Molybdenum | 96-1 | 3427 | 2757 | 2087 | 2757 | 24.31 | cps |
| Molybdenum | 97-1 | 1970 | 1503 | 1287 | 1587 | 22.01 | cps |
| Molybdenum | 98-1 | 4708 | 4177 | 3064 | 3983 | 21.06 | cps |
| Neodymium | 150-1 | 13 | 23 | 10 | 16 | 44.60 | cps |
| Neodymium | 150-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1233 | 1357 | 1340 | 1310 | 5.11 | cps |
| Phosphorus | 31-2 | 47 | 53 | 83 | 61 | 31.96 | cps |
| Potassium | 39-2 | 21059 | 20374 | 20168 | 20534 | 2.27 | cps |
| Rhodium | 103-1 | 16615074 | 16346585 | 16220987 | 16394215 | 1.23 | cps |
| Rhodium | 103-2 | 6299189 | 6330799 | 6446091 | 6358693 | 1.22 | cps |
| Scandium | 45-1 | 12531748 | 12355514 | 12299711 | 12395658 | 0.98 | cps |
| Scandium | 45-2 | 237116 | 232629 | 244312 | 238019 | 2.48 | cps |
| Selenium | 82-1 | -27 | 150 | 33 | 52 | 172.04 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 10 | 3 | 10 | 8 | 49.52 | cps |
| Silicon | 28-1 | 624324 | 621856 | 621406 | 622529 | 0.25 | cps |
| Silver | 107-1 | 2054 | 1800 | 1433 | 1762 | 17.69 | cps |
| Silver | 109-1 | 1687 | 1383 | 1187 | 1419 | 17.75 | cps |
| Sodium | 23-2 | 84502 | 82511 | 81412 | 82808 | 1.89 | cps |
| Strontium | 86-1 | 690 | 657 | 553 | 633 | 11.25 | cps |
| Strontium | 88-1 | 2247 | 2060 | 1680 | 1996 | 14.47 | cps |
| Sulfur | 34-1 | 822370 | 826507 | 825206 | 824694 | 0.26 | cps |
| Terbium | 159-1 | 21700810 | 20895637 | 20531356 | 21042601 | 2.84 | cps |
| Terbium | 159-2 | 6944837 | 6903340 | 7230227 | 7026135 | 2.53 | cps |
| Thallium | 203-1 | 1460 | 1203 | 1063 | 1242 | 16.20 | cps |
| Thallium | 205-1 | 3330 | 2917 | 2480 | 2909 | 14.61 | cps |
| Tin | 118-1 | 2534 | 2427 | 2300 | 2420 | 4.83 | cps |
| Titanium | 47-1 | 950 | 907 | 613 | 823 | 22.24 | cps |
| Uranium | 238-1 | 1257 | 1017 | 690 | 988 | 28.80 | cps |

Reviewed By:Mohan
On:2/7/2025 11:31:39 AM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134612 | Operator : | Jaswal |
| Lab Sample ID : | CCB008 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB008 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-06 20:25:40 | DataFile Name : | 134CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 43 | 33 | 53 | 43 | 23.08 | cps |
| Ytterbium | 172-1 | 107 | 120 | 107 | 111 | 6.93 | cps |
| Ytterbium | 172-2 | 53 | 57 | 80 | 63 | 22.94 | cps |
| Ytterbium | 176-1 | 1970 | 1803 | 1937 | 1903 | 4.63 | cps |
| Ytterbium | 176-2 | 337 | 277 | 313 | 309 | 9.79 | cps |
| Yttrium | 89-1 | 30796411 | 30220110 | 29995989 | 30337503 | 1.36 | cps |
| Yttrium | 89-2 | 2148080 | 2147751 | 2264305 | 2186712 | 3.07 | cps |
| Zinc | 66-2 | 683 | 690 | 713 | 696 | 2.26 | cps |
| Zirconium | 90-1 | 2384 | 2224 | 1737 | 2115 | 15.93 | cps |
| Zirconium | 91-1 | 460 | 507 | 373 | 447 | 15.15 | cps |

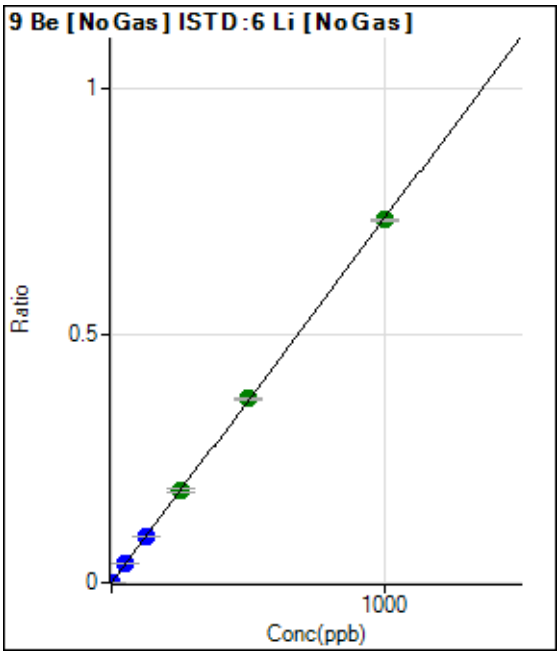
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

# Calibration for 055AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021125 MS.b\
Analysis File: P8021125 MS.batch.bin
DA Date-Time: 2025-02-11 16:41:16
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2025-02-11 12:05:13 |
| 2 | 005CALS.d | S02 | 2025-02-11 12:08:35 |
| 3 | 006CALB.d | S03 | 2025-02-11 12:11:58 |
| 4 | 007CALS.d | S04 | 2025-02-11 12:15:02 |
| 5 | 008CALS.d | S05 | 2025-02-11 12:18:01 |
| 6 | 009CALS.d | S06 | 2025-02-11 12:20:51 |
| 7 | 010CALS.d | S07 | 2025-02-11 12:23:38 |
| 8 | 011CALS.d | S08 | 2025-02-11 12:26:23 |

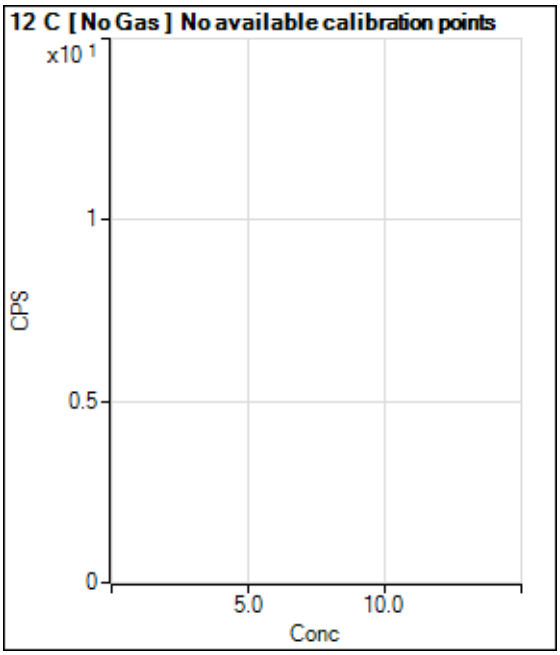
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 361.63 | 0.0000 | P | 1.2 |
| 2 | ☐ | 1.000 | 1.074 | 6278.90 | 0.0008 | P | 1.1 |
| 3 | ☐ | 50.000 | 51.377 | 280845.21 | 0.0379 | P | 2.5 |
| 4 | ☐ | 125.000 | 125.718 | 687140.12 | 0.0927 | P | 2.1 |
| 5 | ☐ | 250.000 | 253.365 | 1368162.02 | 0.1867 | A | 2.4 |
| 6 | ☐ | 500.000 | 505.733 | 2695154.28 | 0.3726 | A | 0.9 |
| 7 | ☐ | 1000.000 | 996.134 | 5226624.33 | 0.7338 | A | 0.3 |
| 8 | ☐ | | | 1942.39 | 0.0003 | P | 10.4 |

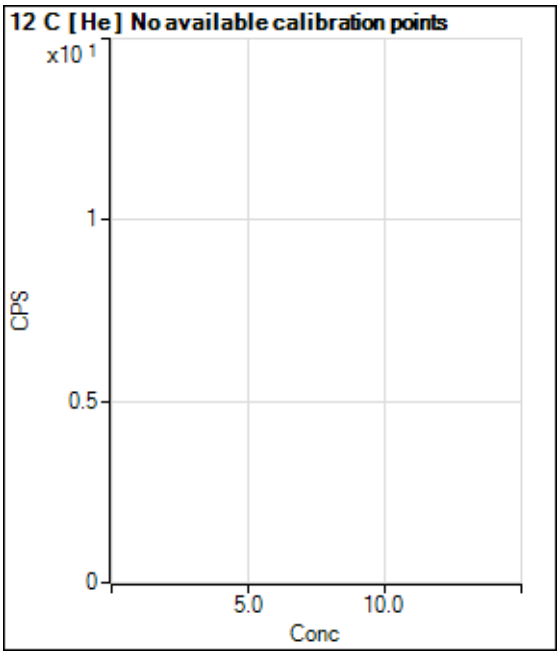
y = 7.3661E-004 * x + 4.8717E-005
R = 1.0000
DL = 0.00238
BEC = 0.06614

Weight: <None>
Min Conc: 0

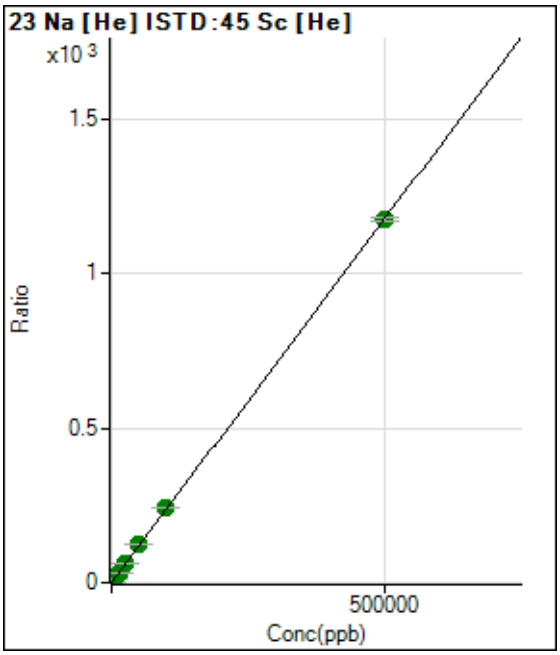



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 3360557.45 | | A | 1.2 |
| 2 | ☐ | | | 3369094.92 | | A | 0.1 |
| 3 | ☐ | | | 3438303.32 | | A | 0.4 |
| 4 | ☐ | | | 3592506.75 | | A | 0.6 |
| 5 | ☐ | | | 3714614.04 | | A | 1.3 |
| 6 | ☐ | | |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

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




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 22745.42 | | P | 1.3 |
| 2 | ☐ | | | 22698.71 | | P | 1.5 |
| 3 | ☐ | | | 23193.93 | | P | 0.5 |
| 4 | ☐ | | | 24332.42 | | P | 1.1 |
| 5 | ☐ | | | 26180.01 | | P | 1.6 |
| 6 | ☐ | | | 28867.23 | | P | 1.0 |
| 7 | ☐ | | | 34647.49 | | P | 2.1 |
| 8 | ☐ | | | 38443.49 | | P | 0.4 |

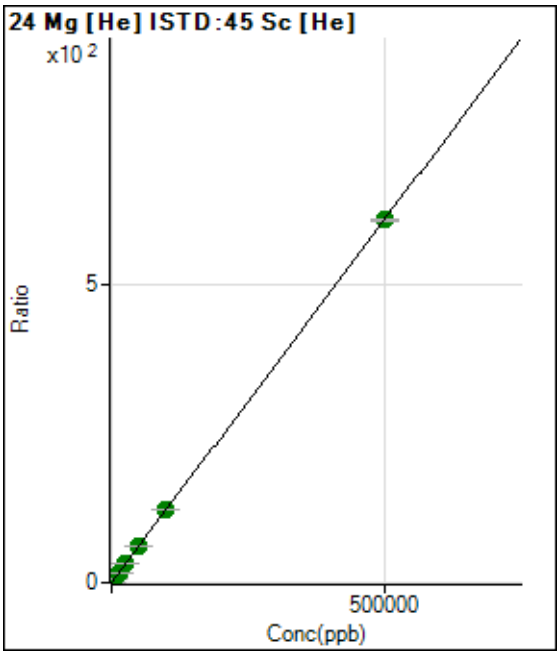



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 56834.43 | 0.3075 | P | 1.5 |
| 2 | ☐ | 500.000 | 541.926 | 296212.48 | 1.5827 | P | 0.9 |
| 3 | ☐ | 5000.000 | 5395.509 | 2384490.40 | 13.0036 | A | 1.7 |
| 4 | ☐ | 12500.000 | 13008.194 | 5714264.08 | 30.9169 | A | 0.1 |
| 5 | ☐ | 25000.000 | 26266.120 | 11455199.41 | 62.1139 | A | 2.8 |
| 6 | ☐ | 50000.000 | 52959.770 | 22737010.22 | 124.9263 | A | 0.9 |
| 7 | ☐ | 100000.00 | 103433.66 | 44802141.00 | 243.6956 | A | 0.1 |
| 8 | ☐ | 500000.00 | 498937.28 | 205456994.7 | 1,174.348 | A | 1.2 |

y = 0.0024 * x + 0.3075
R = 1.0000
DL = 5.923
BEC = 130.7

Weight: <None>
Min Conc: 0

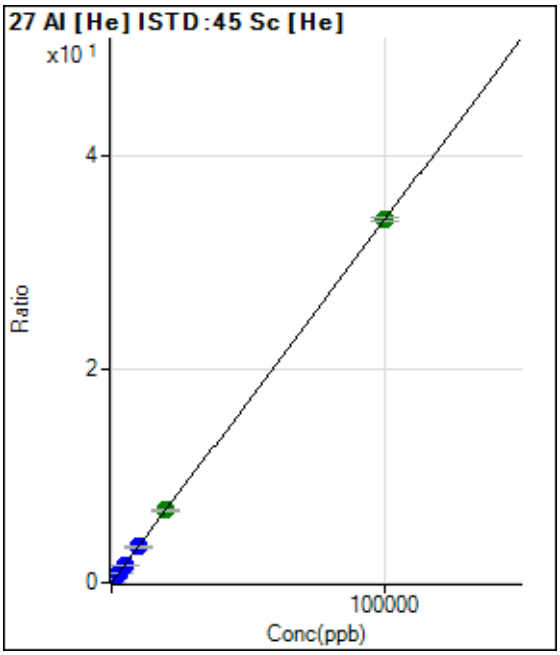
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4133.96 | 0.0224 | P | 4.3 |
| 2 | ☐ | 500.000 | 535.768 | 126672.02 | 0.6768 | P | 0.5 |
| 3 | ☐ | 5000.000 | 5346.022 | 1201561.62 | 6.5525 | A | 1.4 |
| 4 | ☐ | 12500.000 | 12958.730 | 2929735.09 | 15.8514 | A | 0.7 |
| 5 | ☐ | 25000.000 | 25946.260 | 5849317.27 | 31.7157 | A | 2.8 |
| 6 | ☐ | 50000.000 | 51175.425 | 11381502.05 | 62.5332 | A | 0.4 |
| 7 | ☐ | 100000.00 | 100144.98 | 22493654.67 | 122.3495 | A | 0.6 |
| 8 | ☐ | 500000.00 | 499791.18 | 106819078.4 | 610.5175 | A | 0.3 |

y = 0.0012 * x + 0.0224
R = 1.0000
DL = 2.376
BEC = 18.3

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 113.33 | 0.0006 | P | 11.1 |
| 2 | ☐ | 20.000 | 18.890 | 1317.85 | 0.0070 | P | 4.6 |
| 3 | ☐ | 1000.000 | 1002.990 | 62685.38 | 0.3418 | P | 0.2 |
| 4 | ☐ | 2500.000 | 2460.172 | 154800.30 | 0.8376 | P | 0.8 |
| 5 | ☐ | 5000.000 | 4942.658 | 310252.35 | 1.6821 | P | 2.1 |
| 6 | ☐ | 10000.000 | 9829.508 | 608743.34 | 3.3446 | P | 0.5 |
| 7 | ☐ | 20000.000 | 19944.046 | 1247461.68 | 6.7856 | A | 1.6 |
| 8 | ☐ | 100000.00 | 100032.07 | 5954172.07 | 34.0317 | A | 0.9 |

y = 3.4020E-004 * x + 6.1331E-004
R = 1.0000
DL = 0.5992
BEC = 1.803

Weight: <None>
Min Conc: 0

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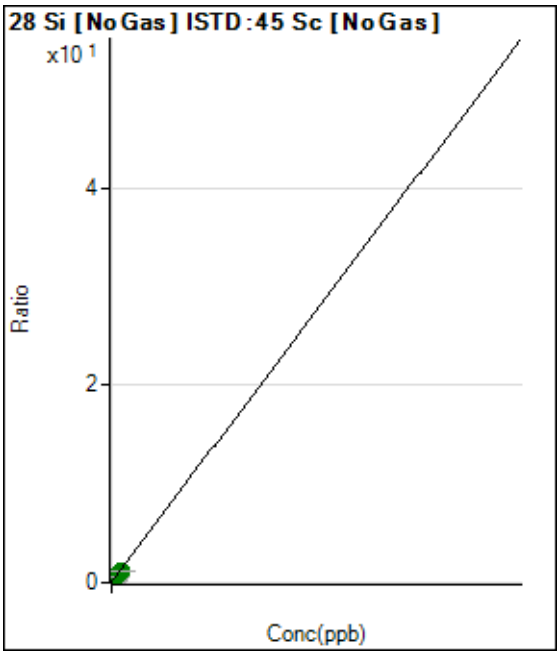
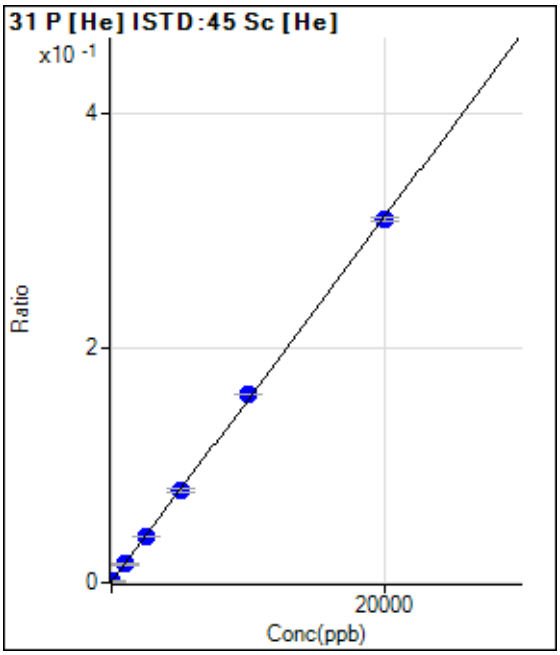



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 513265.19 | 0.0490 | P | 0.6 |
| 2 | ☐ | 10.000 | 6.376 | 590083.28 | 0.0567 | P | 0.4 |
| 3 | ☐ | 50.000 | 51.081 | 1168455.04 | 0.1105 | A | 0.8 |
| 4 | ☐ | 125.000 | 128.798 | 2134505.19 | 0.2041 | A | 1.2 |
| 5 | ☐ | 250.000 | 253.013 | 3706115.15 | 0.3536 | A | 2.6 |
| 6 | ☐ | 500.000 | 512.571 | 6836667.26 | 0.6661 | A | 2.9 |
| 7 | ☐ | 1000.000 | 992.469 | 12718038.98 | 1.2438 | A | 1.5 |
| 8 | ☐ | | | 670331.67 | 0.0697 | P | 2.2 |

y = 0.0012 * x + 0.0490
R = 0.9999
DL = 0.7172
BEC = 40.75

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -11.458 | 86.67 | 0.0005 | P | 16.3 |
| 2 | ☐ | 0.000 | 11.458 | 154.45 | 0.0008 | P | 18.3 |
| 3 | ☐ | 1000.000 | 982.833 | 2924.77 | 0.0160 | P | 5.7 |
| 4 | ☐ | 2500.000 | 2513.659 | 7354.15 | 0.0398 | P | 0.4 |
| 5 | ☐ | 5000.000 | 4977.904 | 14412.81 | 0.0782 | P | 3.8 |
| 6 | ☐ | 10000.000 | 10324.689 | 29379.74 | 0.1614 | P | 0.3 |
| 7 | ☐ | 20000.000 | 19842.330 | 56922.18 | 0.3096 | P | 0.9 |
| 8 | ☐ | | | 88.89 | 0.0005 | P | 18.3 |

y = 1.5572E-005 * x + 6.4699E-004
R = 0.9998
DL = 21.95
BEC = 41.55

Weight: <None>
Min Conc: 0

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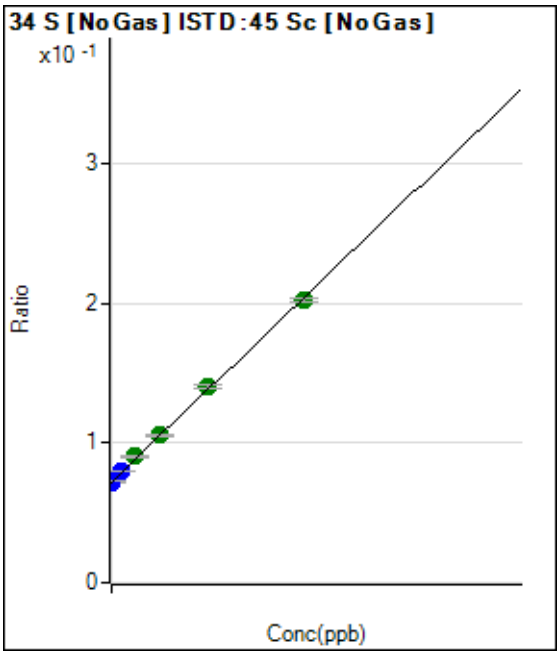
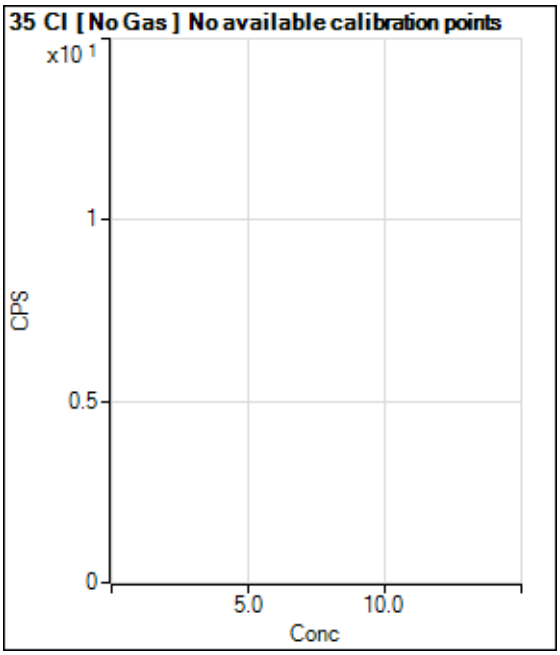



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -122.073 | 746544.49 | 0.0713 | P | 0.2 |
| 2 | ☐ | 0.000 | 122.073 | 758825.73 | 0.0729 | P | 0.2 |
| 3 | ☐ | 1000.000 | 1186.137 | 844998.56 | 0.0799 | P | 0.6 |
| 4 | ☐ | 2500.000 | 2786.306 | 946100.82 | 0.0905 | A | 1.5 |
| 5 | ☐ | 5000.000 | 5051.511 | 1104109.44 | 0.1053 | A | 2.0 |
| 6 | ☐ | 10000.000 | 10299.215 | 1435460.71 | 0.1398 | A | 1.9 |
| 7 | ☐ | 20000.000 | 19792.420 | 2067919.90 | 0.2022 | A | 1.3 |
| 8 | ☐ | | | 682747.53 | 0.0710 | P | 1.3 |

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

Weight: <None>
Min Conc: 0




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

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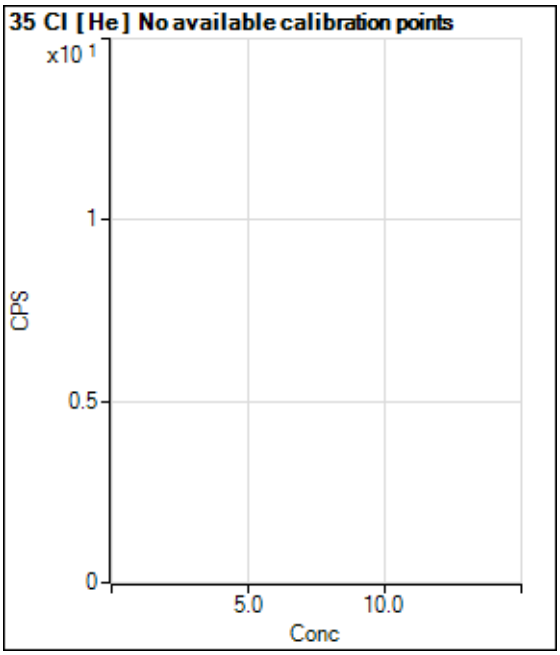
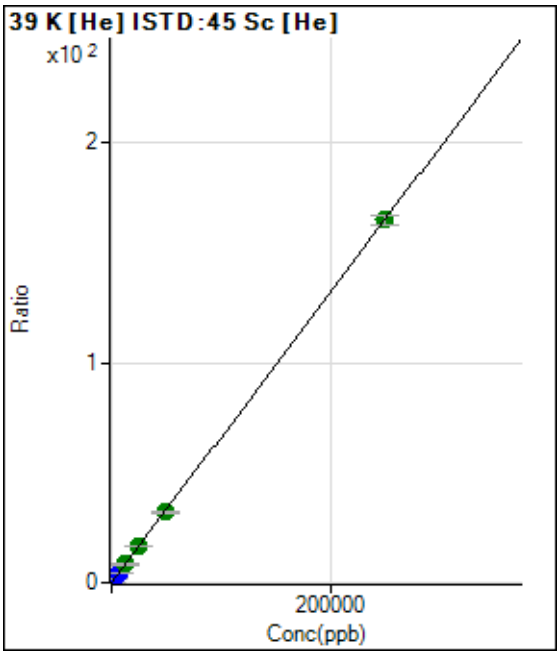



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 496.68 | | P | 4.4 |
| 2 | ☐ | | | 426.68 | | P | 6.8 |
| 3 | ☐ | | | 451.12 | | P | 10.6 |
| 4 | ☐ | | | 468.90 | | P | 15.1 |
| 5 | ☐ | | | 474.46 | | P | 5.4 |
| 6 | ☐ | | | 556.68 | | P | 2.2 |
| 7 | ☐ | | | 630.02 | | P | 7.4 |
| 8 | ☐ | | | 472.23 | | P | 12.0 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 9404.26 | 0.0509 | P | 2.0 |
| 2 | ☐ | 500.000 | 511.948 | 72701.71 | 0.3885 | P | 0.9 |
| 3 | ☐ | 2500.000 | 2515.987 | 313557.84 | 1.7099 | P | 0.8 |
| 4 | ☐ | 6250.000 | 6130.526 | 756536.93 | 4.0933 | P | 0.6 |
| 5 | ☐ | 12500.000 | 12535.253 | 1533826.82 | 8.3166 | A | 2.5 |
| 6 | ☐ | 25000.000 | 25173.078 | 3030279.68 | 16.6499 | A | 1.2 |
| 7 | ☐ | 50000.000 | 48434.432 | 5880779.98 | 31.9883 | A | 0.9 |
| 8 | ☐ | 250000.00 | 250296.84 | 28881381.23 | 165.0952 | A | 2.5 |

y = 6.5939E-004 * x + 0.0509
R = 1.0000
DL = 4.646
BEC = 77.16

Weight: <None>
Min Conc: 0

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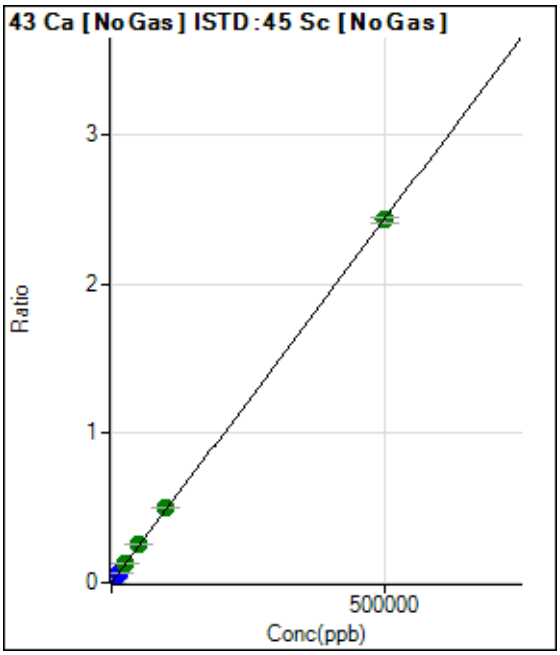
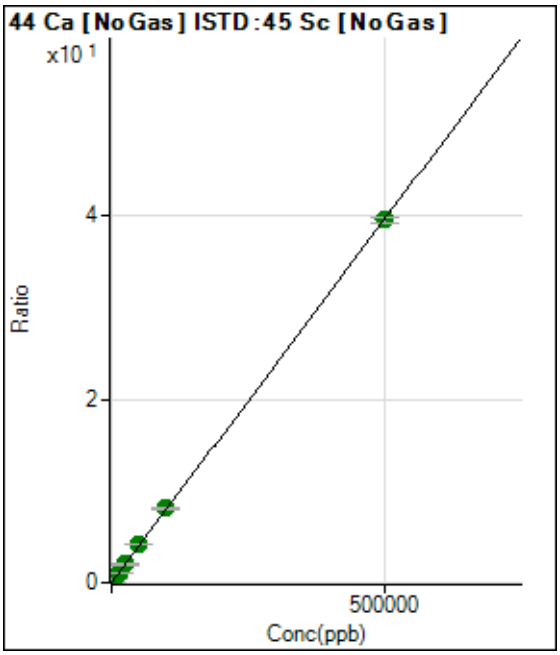



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 418.90 | 0.0000 | P | 8.2 |
| 2 | ☐ | 500.000 | 557.274 | 28606.29 | 0.0027 | P | 1.0 |
| 3 | ☐ | 5000.000 | 5237.620 | 269627.71 | 0.0255 | P | 1.6 |
| 4 | ☐ | 12500.000 | 12948.521 | 658945.87 | 0.0630 | P | 1.0 |
| 5 | ☐ | 25000.000 | 25865.046 | 1318677.40 | 0.1258 | A | 2.3 |
| 6 | ☐ | 50000.000 | 52812.055 | 2636408.17 | 0.2569 | A | 2.6 |
| 7 | ☐ | 100000.00 | 102909.14 | 5117125.24 | 0.5005 | A | 1.9 |
| 8 | ☐ | 500000.00 | 499080.06 | 23340811.32 | 2.4270 | A | 1.8 |

y = 4.8628E-006 * x + 4.0045E-005
R = 1.0000
DL = 2.029
BEC = 8.235

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29255.37 | 0.0028 | P | 1.1 |
| 2 | ☐ | 500.000 | 550.279 | 482897.91 | 0.0464 | P | 0.9 |
| 3 | ☐ | 5000.000 | 5237.700 | 4418528.03 | 0.4180 | A | 1.7 |
| 4 | ☐ | 12500.000 | 12884.254 | 10712373.38 | 1.0243 | A | 0.1 |
| 5 | ☐ | 25000.000 | 25348.293 | 21091365.24 | 2.0124 | A | 2.7 |
| 6 | ☐ | 50000.000 | 52048.012 | 42391909.09 | 4.1292 | A | 1.5 |
| 7 | ☐ | 100000.00 | 102351.35 | 83002634.32 | 8.1172 | A | 1.1 |
| 8 | ☐ | 500000.00 | 499295.47 | 380710749.8 | 39.5869 | A | 1.9 |

y = 7.9280E-005 * x + 0.0028
R = 1.0000
DL = 1.132
BEC = 35.26

Weight: <None>
Min Conc: 0

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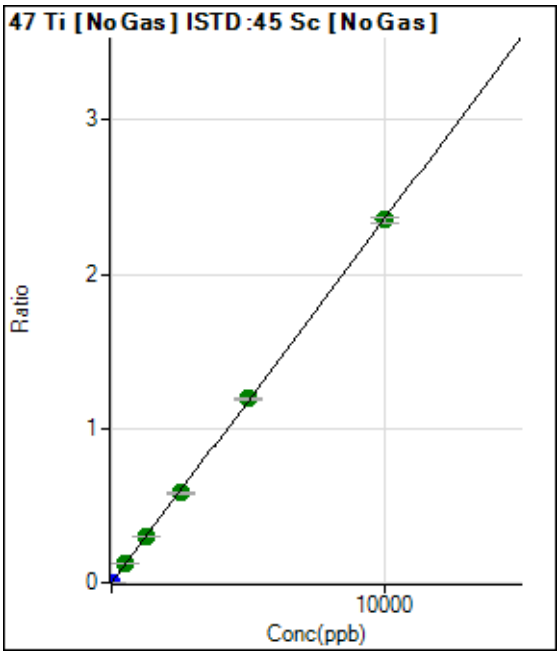
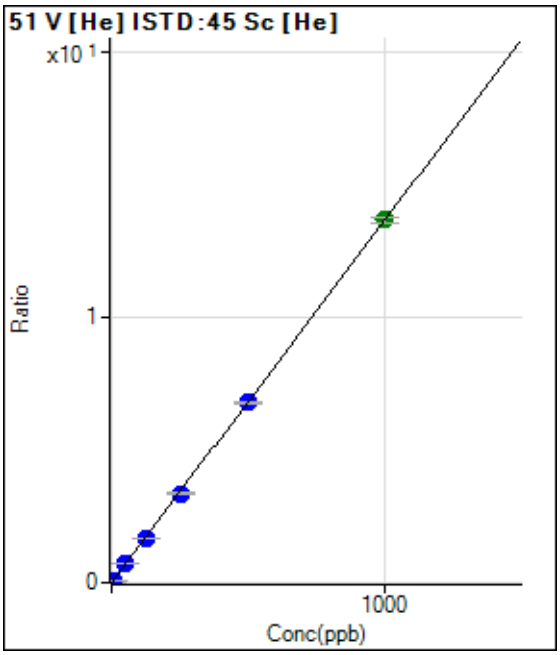



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 640.08 | 0.0001 | P | 15.8 |
| 2 | ☐ | 5.000 | 5.289 | 13608.75 | 0.0013 | P | 0.9 |
| 3 | ☐ | 500.000 | 512.437 | 1277689.90 | 0.1209 | A | 1.8 |
| 4 | ☐ | 1250.000 | 1266.661 | 3124153.88 | 0.2987 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2461.336 | 6083835.88 | 0.5804 | A | 1.1 |
| 6 | ☐ | 5000.000 | 5058.425 | 12245010.10 | 1.1927 | A | 1.2 |
| 7 | ☐ | 10000.000 | 9977.749 | 24056862.42 | 2.3526 | A | 1.3 |
| 8 | ☐ | | | 4429.62 | 0.0005 | P | 3.8 |

y = 2.3578E-004 * x + 6.1210E-005
R = 1.0000
DL = 0.1232
BEC = 0.2596

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15.55 | 0.0001 | P | 45.5 |
| 2 | ☐ | 5.000 | 5.287 | 13518.69 | 0.0722 | P | 1.4 |
| 3 | ☐ | 50.000 | 50.766 | 127068.63 | 0.6929 | P | 0.7 |
| 4 | ☐ | 125.000 | 124.016 | 312836.60 | 1.6926 | P | 0.2 |
| 5 | ☐ | 250.000 | 246.737 | 621038.67 | 3.3674 | P | 2.7 |
| 6 | ☐ | 500.000 | 497.839 | 1236563.13 | 6.7943 | P | 1.2 |
| 7 | ☐ | 1000.000 | 1001.980 | 2513928.26 | 13.6746 | A | 1.4 |
| 8 | ☐ | | | 721.14 | 0.0041 | P | 5.7 |

y = 0.0136 * x + 8.4396E-005
R = 1.0000
DL = 0.008434
BEC = 0.006184

Weight: <None>
Min Conc: 0

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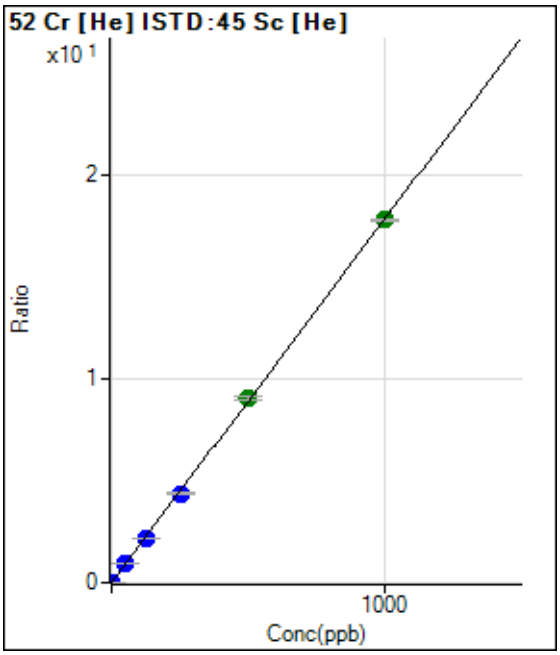
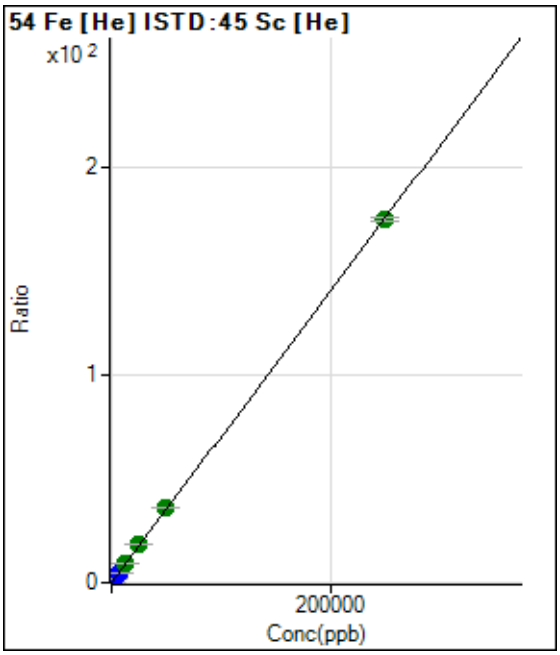



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 746.69 | 0.0040 | P | 5.8 |
| 2 | ☐ | 2.000 | 2.074 | 7658.78 | 0.0409 | P | 1.3 |
| 3 | ☐ | 50.000 | 50.527 | 165473.33 | 0.9024 | P | 0.7 |
| 4 | ☐ | 125.000 | 123.544 | 406715.60 | 2.2006 | P | 0.4 |
| 5 | ☐ | 250.000 | 243.673 | 799782.35 | 4.3364 | P | 2.2 |
| 6 | ☐ | 500.000 | 506.313 | 1639015.11 | 9.0059 | A | 2.1 |
| 7 | ☐ | 1000.000 | 998.581 | 3264720.71 | 17.7580 | A | 0.5 |
| 8 | ☐ | | | 10331.59 | 0.0590 | P | 1.9 |

y = 0.0178 * x + 0.0040
R = 0.9999
DL = 0.03972
BEC = 0.2271

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 363.34 | 0.0020 | P | 15.0 |
| 2 | ☐ | 50.000 | 56.743 | 7796.63 | 0.0417 | P | 1.1 |
| 3 | ☐ | 2500.000 | 2696.478 | 346196.43 | 1.8879 | P | 0.6 |
| 4 | ☐ | 6250.000 | 6564.854 | 848945.15 | 4.5934 | P | 1.1 |
| 5 | ☐ | 12500.000 | 13288.875 | 1714697.87 | 9.2961 | A | 1.8 |
| 6 | ☐ | 25000.000 | 26612.619 | 3387818.60 | 18.6147 | A | 1.5 |
| 7 | ☐ | 50000.000 | 51759.812 | 6655597.40 | 36.2025 | A | 0.4 |
| 8 | ☐ | 250000.00 | 249437.49 | 30521899.54 | 174.4570 | A | 1.2 |

y = 6.9939E-004 * x + 0.0020
R = 1.0000
DL = 1.267
BEC = 2.814

Weight: <None>
Min Conc: 0

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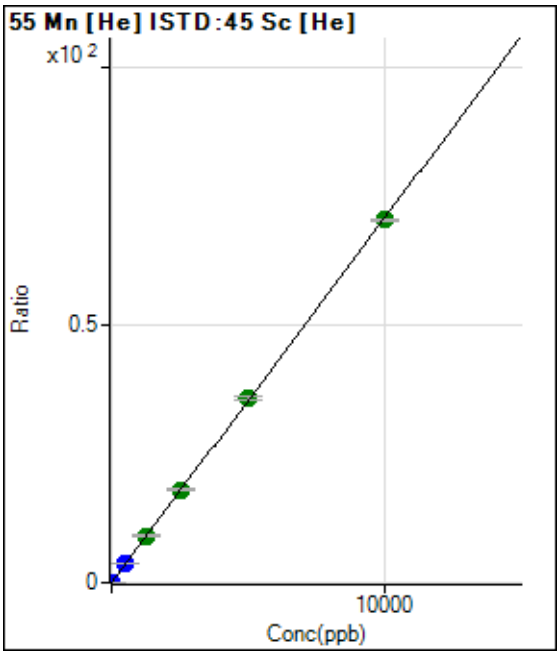
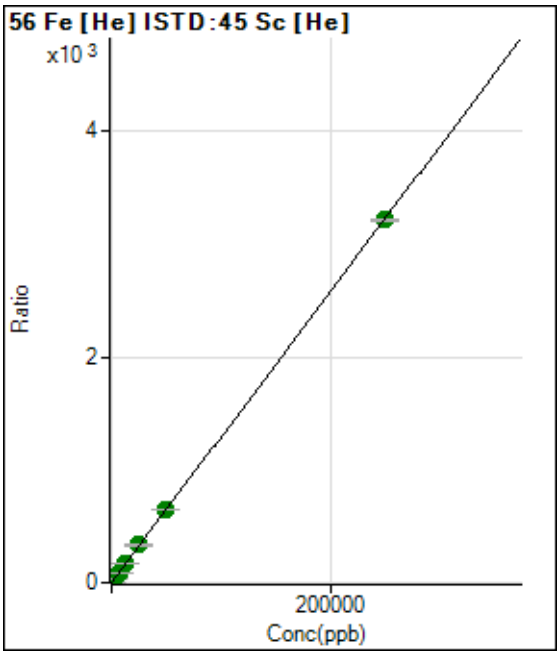



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164.45 | 0.0009 | P | 13.9 |
| 2 | ☐ | 1.000 | 1.039 | 1540.10 | 0.0082 | P | 3.3 |
| 3 | ☐ | 500.000 | 514.385 | 666753.06 | 3.6359 | P | 0.4 |
| 4 | ☐ | 1250.000 | 1288.953 | 1683574.99 | 9.1096 | A | 1.8 |
| 5 | ☐ | 2500.000 | 2554.575 | 3330009.78 | 18.0535 | A | 1.5 |
| 6 | ☐ | 5000.000 | 5051.624 | 6497271.29 | 35.6995 | A | 1.6 |
| 7 | ☐ | 10000.000 | 9954.956 | 12933611.89 | 70.3502 | A | 0.3 |
| 8 | ☐ | | | 5867.92 | 0.0335 | P | 2.6 |

y = 0.0071 * x + 8.8853E-004
R = 1.0000
DL = 0.05231
BEC = 0.1257

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5986.86 | 0.0324 | P | 1.5 |
| 2 | ☐ | 50.000 | 55.418 | 139578.56 | 0.7458 | P | 0.7 |
| 3 | ☐ | 2500.000 | 2687.743 | 6350587.89 | 34.6310 | A | 0.8 |
| 4 | ☐ | 6250.000 | 6542.381 | 15571277.27 | 84.2508 | A | 0.8 |
| 5 | ☐ | 12500.000 | 12986.197 | 30836203.98 | 167.2004 | A | 2.6 |
| 6 | ☐ | 25000.000 | 25941.773 | 60784408.54 | 333.9742 | A | 1.1 |
| 7 | ☐ | 50000.000 | 50686.796 | 119961205.9 | 652.5106 | A | 0.3 |
| 8 | ☐ | 250000.00 | 249734.96 | 562514476.0 | 3,214.807 | A | 0.7 |

y = 0.0129 * x + 0.0324
R = 1.0000
DL = 0.1131
BEC = 2.516

Weight: <None>
Min Conc: 0

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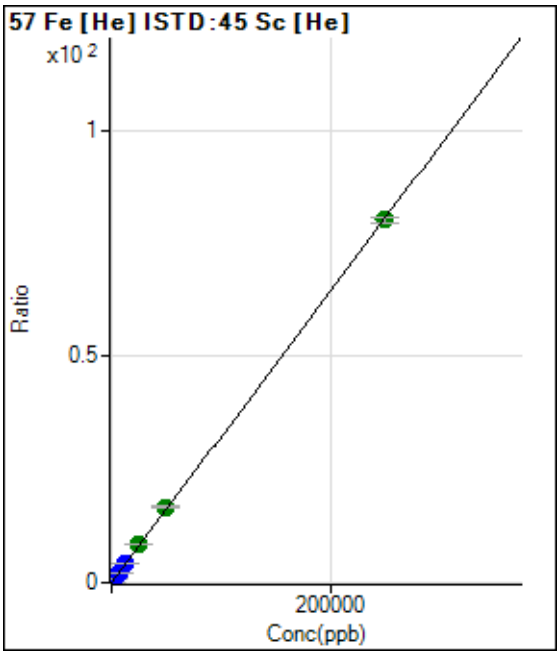
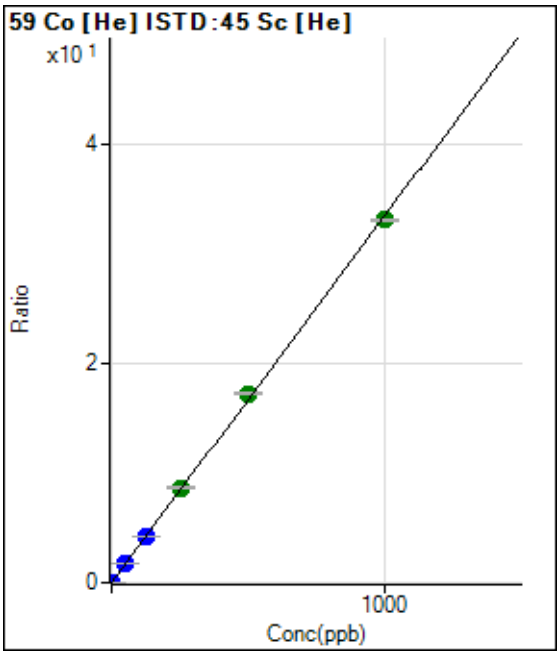



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 137.78 | 0.0007 | P | 10.4 |
| 2 | ☐ | 50.000 | 54.915 | 3446.01 | 0.0184 | P | 2.5 |
| 3 | ☐ | 2500.000 | 2653.277 | 156656.71 | 0.8543 | P | 0.5 |
| 4 | ☐ | 6250.000 | 6481.522 | 385499.25 | 2.0858 | P | 0.7 |
| 5 | ☐ | 12500.000 | 12791.724 | 759108.12 | 4.1157 | P | 2.0 |
| 6 | ☐ | 25000.000 | 26686.958 | 1562671.56 | 8.5857 | A | 0.8 |
| 7 | ☐ | 50000.000 | 51971.331 | 3073859.16 | 16.7194 | A | 1.2 |
| 8 | ☐ | 250000.00 | 249415.13 | 14037437.98 | 80.2350 | A | 1.6 |

y = 3.2169E-004 * x + 7.4458E-004
R = 1.0000
DL = 0.722
BEC = 2.315

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 174.45 | 0.0009 | P | 11.1 |
| 2 | ☐ | 1.000 | 1.137 | 7277.47 | 0.0389 | P | 2.1 |
| 3 | ☐ | 50.000 | 52.741 | 322956.36 | 1.7612 | P | 0.8 |
| 4 | ☐ | 125.000 | 127.362 | 785770.42 | 4.2516 | P | 1.0 |
| 5 | ☐ | 250.000 | 257.217 | 1583511.76 | 8.5854 | A | 2.1 |
| 6 | ☐ | 500.000 | 515.545 | 3131815.65 | 17.2069 | A | 0.6 |
| 7 | ☐ | 1000.000 | 989.991 | 6074573.17 | 33.0413 | A | 0.8 |
| 8 | ☐ | | | 12716.88 | 0.0727 | P | 1.8 |

y = 0.0334 * x + 9.4281E-004
R = 0.9998
DL = 0.009399
BEC = 0.02825

Weight: <None>
Min Conc: 0

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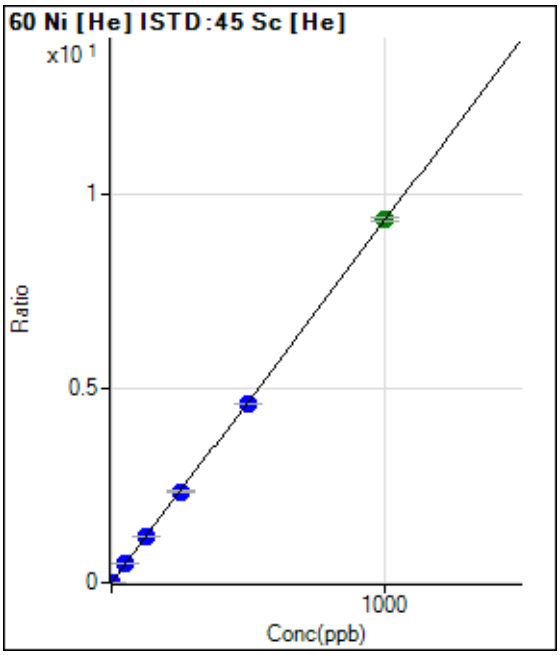
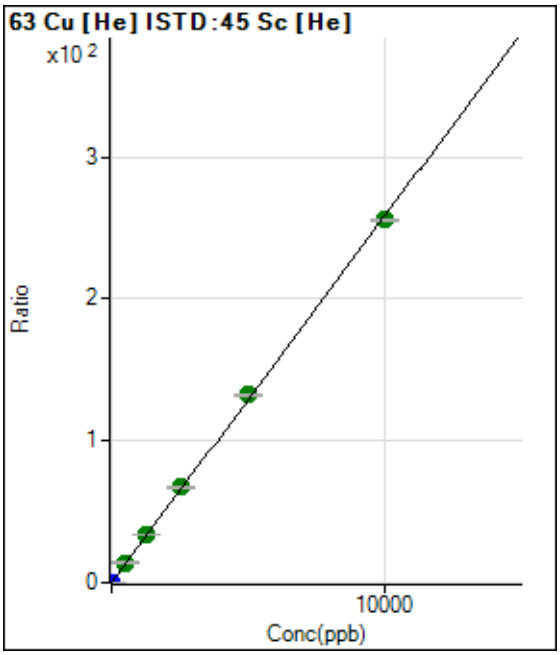



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 911.15 | 0.0049 | P | 3.1 |
| 2 | ☐ | 1.000 | 1.088 | 2815.86 | 0.0150 | P | 1.5 |
| 3 | ☐ | 50.000 | 52.412 | 90244.72 | 0.4921 | P | 0.8 |
| 4 | ☐ | 125.000 | 127.271 | 219562.39 | 1.1880 | P | 0.9 |
| 5 | ☐ | 250.000 | 250.554 | 430456.00 | 2.3340 | P | 2.4 |
| 6 | ☐ | 500.000 | 494.517 | 837554.47 | 4.6017 | P | 0.4 |
| 7 | ☐ | 1000.000 | 1002.199 | 1713577.08 | 9.3209 | A | 1.1 |
| 8 | ☐ | | | 6671.63 | 0.0381 | P | 3.2 |

y = 0.0093 * x + 0.0049
R = 1.0000
DL = 0.04913
BEC = 0.5304

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3408.22 | 0.0184 | P | 4.3 |
| 2 | ☐ | 2.000 | 2.254 | 14341.79 | 0.0766 | P | 1.1 |
| 3 | ☐ | 500.000 | 549.997 | 2607152.39 | 14.2175 | A | 1.0 |
| 4 | ☐ | 1250.000 | 1309.061 | 6249460.25 | 33.8139 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2606.155 | 12411753.15 | 67.3005 | A | 2.8 |
| 6 | ☐ | 5000.000 | 5119.625 | 24058980.75 | 132.1897 | A | 0.8 |
| 7 | ☐ | 10000.000 | 9903.766 | 47009129.30 | 255.6999 | A | 0.8 |
| 8 | ☐ | | | 11176.73 | 0.0639 | P | 2.1 |

y = 0.0258 * x + 0.0184
R = 0.9998
DL = 0.09155
BEC = 0.7144

Weight: <None>
Min Conc: 0

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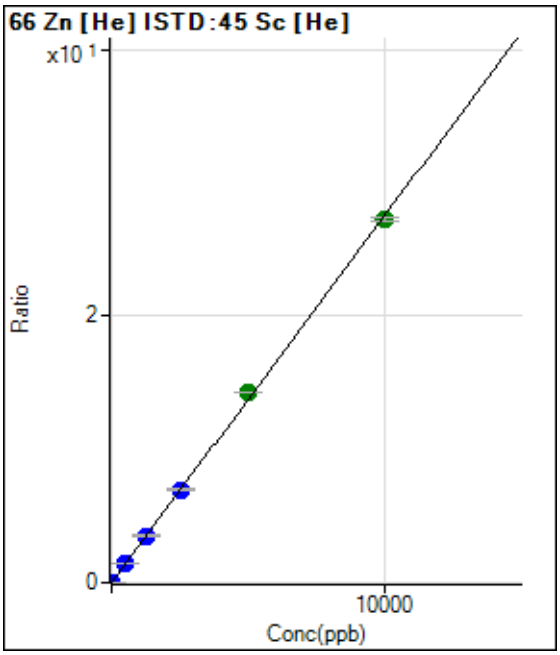
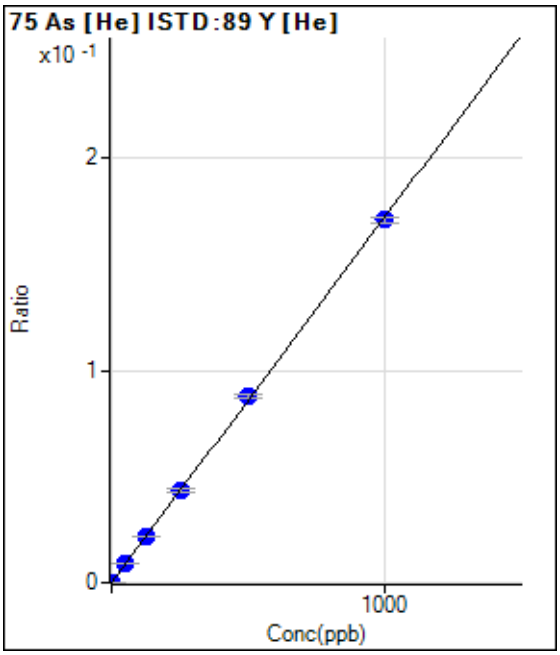



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 195.56 | 0.0011 | P | 19.7 |
| 2 | ☐ | 2.000 | 5.719 | 3142.60 | 0.0168 | P | 3.5 |
| 3 | ☐ | 500.000 | 529.429 | 267299.64 | 1.4576 | P | 0.9 |
| 4 | ☐ | 1250.000 | 1280.881 | 651513.04 | 3.5251 | P | 0.8 |
| 5 | ☐ | 2500.000 | 2534.639 | 1286339.64 | 6.9745 | P | 2.2 |
| 6 | ☐ | 5000.000 | 5189.570 | 2598898.36 | 14.2788 | A | 0.1 |
| 7 | ☐ | 10000.000 | 9891.223 | 5003111.38 | 27.2142 | A | 0.9 |
| 8 | ☐ | | | 2770.30 | 0.0158 | P | 5.2 |

y = 0.0028 * x + 0.0011
R = 0.9997
DL = 0.228
BEC = 0.3851

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 11.11 | 0.0000 | P | 86.6 |
| 2 | ☐ | 1.000 | 1.035 | 321.12 | 0.0002 | P | 6.4 |
| 3 | ☐ | 50.000 | 51.271 | 15063.70 | 0.0088 | P | 1.3 |
| 4 | ☐ | 125.000 | 125.336 | 36952.74 | 0.0215 | P | 0.1 |
| 5 | ☐ | 250.000 | 254.368 | 74181.62 | 0.0437 | P | 4.4 |
| 6 | ☐ | 500.000 | 510.113 | 146407.79 | 0.0877 | P | 1.7 |
| 7 | ☐ | 1000.000 | 993.746 | 289459.19 | 0.1708 | P | 1.3 |
| 8 | ☐ | | | 161.11 | 0.0001 | P | 11.4 |

y = 1.7185E-004 * x + 6.4940E-006
R = 0.9999
DL = 0.09818
BEC = 0.03779

Weight: <None>
Min Conc: 0

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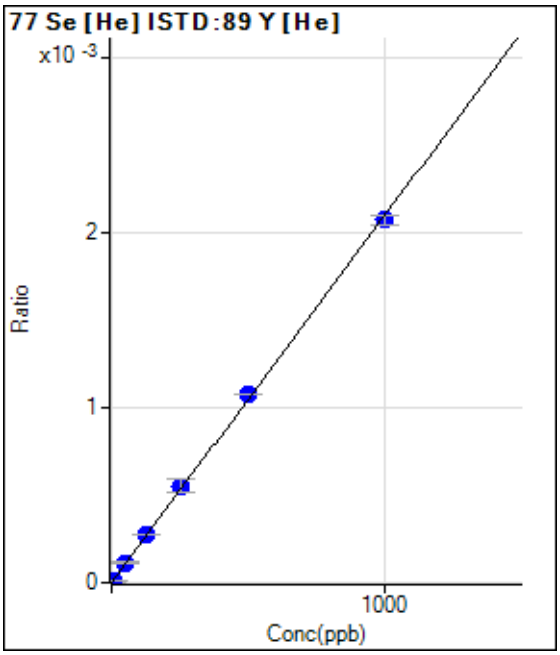
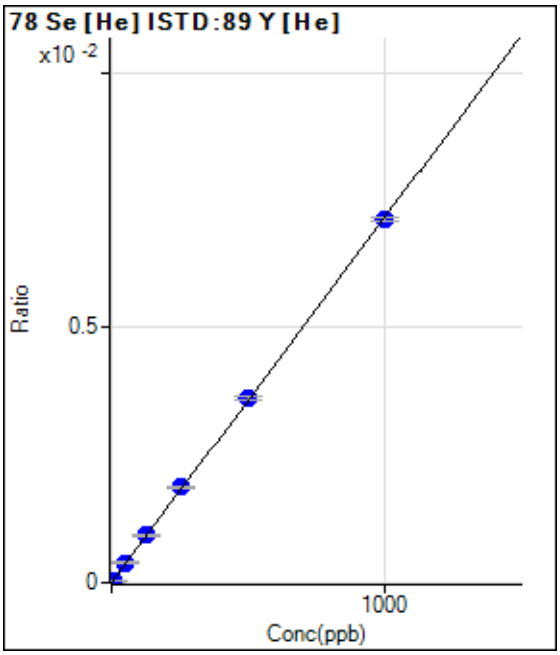



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1.11 | 0.0000 | P | 173.2 |
| 2 | ☐ | 5.000 | 4.860 | 18.89 | 0.0000 | P | 26.6 |
| 3 | ☐ | 50.000 | 53.081 | 191.11 | 0.0001 | P | 8.7 |
| 4 | ☐ | 125.000 | 130.536 | 470.01 | 0.0003 | P | 2.6 |
| 5 | ☐ | 250.000 | 264.367 | 938.93 | 0.0006 | P | 12.2 |
| 6 | ☐ | 500.000 | 513.088 | 1795.69 | 0.0011 | P | 0.6 |
| 7 | ☐ | 1000.000 | 989.019 | 3512.70 | 0.0021 | P | 2.4 |
| 8 | ☐ | | | 5.56 | 0.0000 | P | 91.3 |

y = 2.0943E-006 * x + 6.4547E-007
R = 0.9998
DL = 1.601
BEC = 0.3082

Weight: <None>
Min Conc: 0




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

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

Weight: <None>
Min Conc: 0

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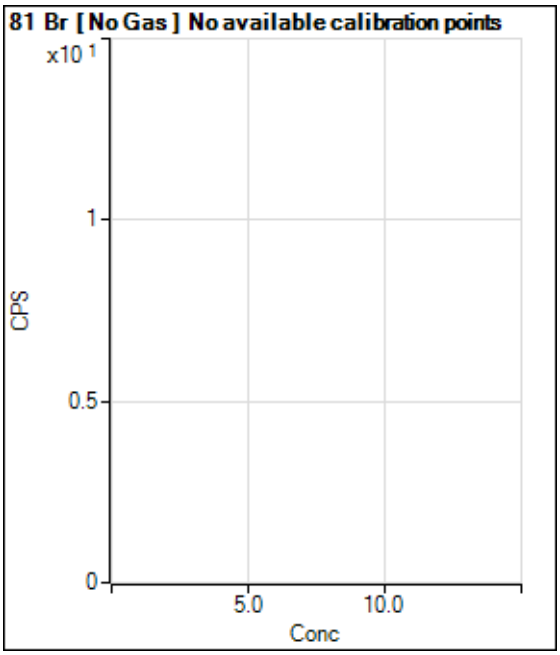
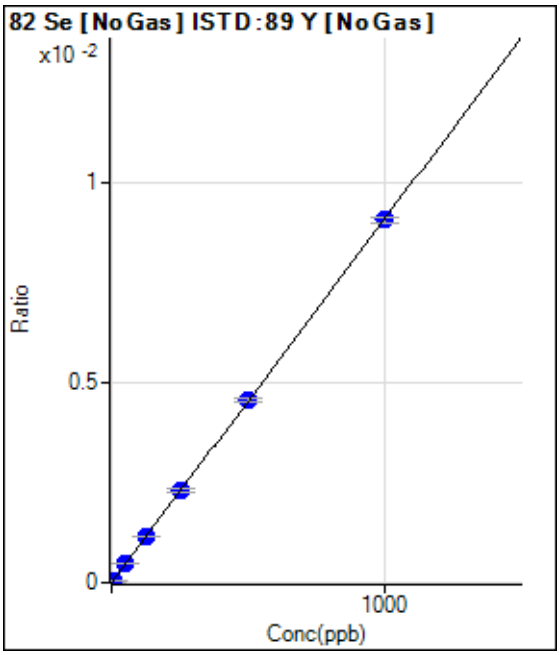



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 3632.73 | | P | 4.5 |
| 2 | ☐ | | | 3846.13 | | P | 1.9 |
| 3 | ☐ | | | 3836.12 | | P | 1.4 |
| 4 | ☐ | | | 3917.26 | | P | 1.7 |
| 5 | ☐ | | | 3969.49 | | P | 2.4 |
| 6 | ☐ | | | 3911.70 | | P | 1.8 |
| 7 | ☐ | | | 4038.40 | | P | 3.3 |
| 8 | ☐ | | | 4264.02 | | P | 2.2 |




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

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

Weight: <None>
Min Conc: 0

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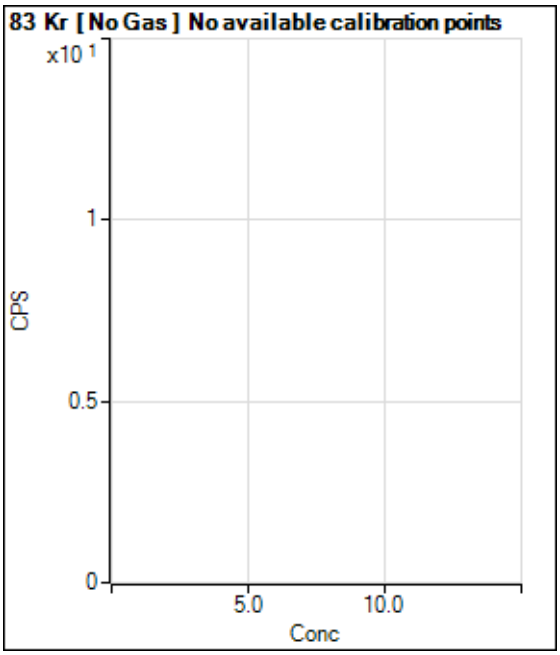
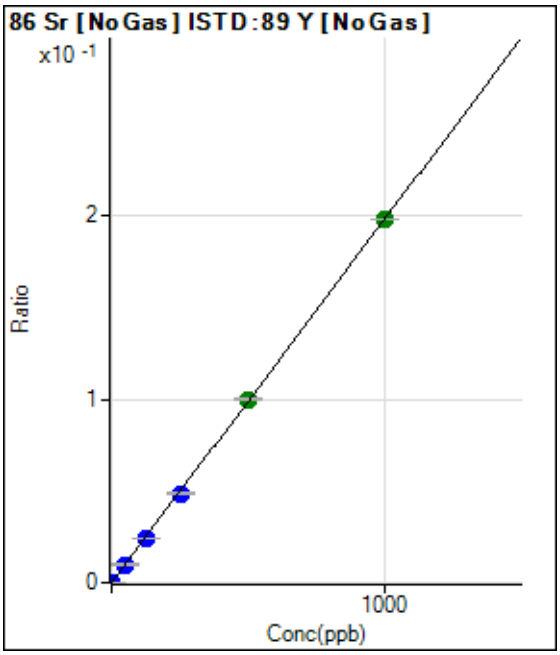



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 285.56 | | P | 17.3 |
| 2 | ☐ | | | 291.12 | | P | 15.6 |
| 3 | ☐ | | | 262.23 | | P | 15.9 |
| 4 | ☐ | | | 277.78 | | P | 5.9 |
| 5 | ☐ | | | 264.45 | | P | 9.5 |
| 6 | ☐ | | | 291.12 | | P | 0.7 |
| 7 | ☐ | | | 317.79 | | P | 4.2 |
| 8 | ☐ | | | 357.79 | | P | 6.9 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 781.14 | 0.0000 | P | 6.5 |
| 2 | ☐ | 1.000 | 1.039 | 6325.94 | 0.0002 | P | 2.4 |
| 3 | ☐ | 50.000 | 50.116 | 270837.62 | 0.0100 | P | 1.2 |
| 4 | ☐ | 125.000 | 123.384 | 664050.36 | 0.0245 | P | 1.2 |
| 5 | ☐ | 250.000 | 245.451 | 1309660.60 | 0.0487 | P | 2.7 |
| 6 | ☐ | 500.000 | 504.909 | 2685975.69 | 0.1001 | A | 1.5 |
| 7 | ☐ | 1000.000 | 998.879 | 5240817.01 | 0.1980 | A | 0.2 |
| 8 | ☐ | | | 15965.88 | 0.0006 | P | 1.7 |

y = 1.9824E-004 * x + 2.8879E-005
R = 1.0000
DL = 0.02836
BEC = 0.1457

Weight: <None>
Min Conc: 0

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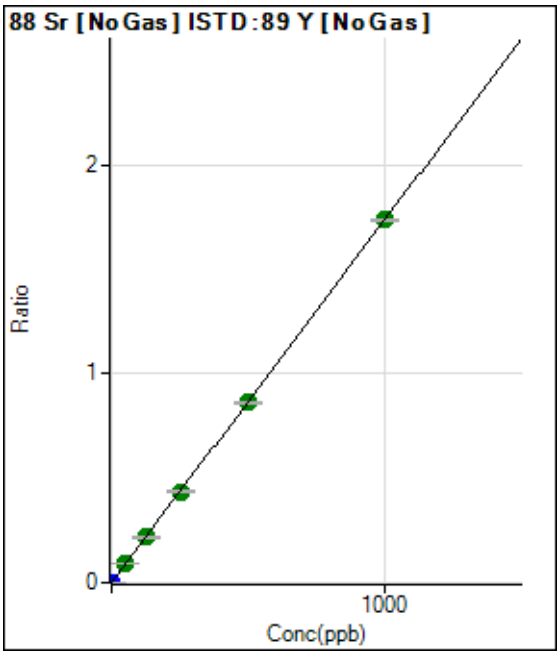
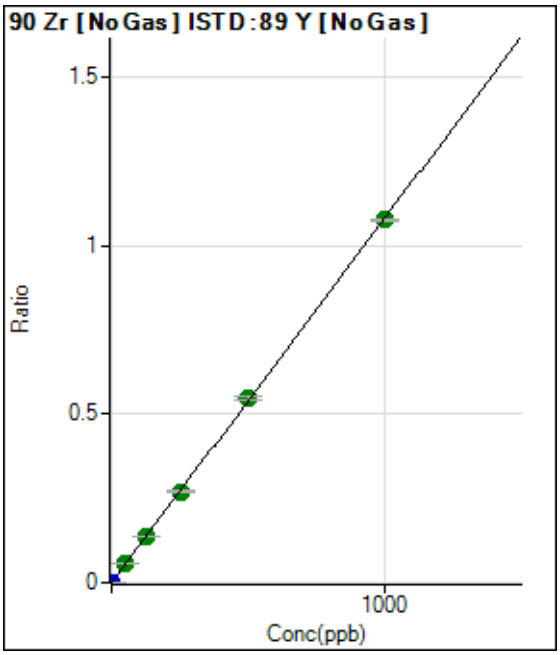



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2825.87 | 0.0001 | P | 5.6 |
| 2 | ☐ | 1.000 | 1.051 | 51967.28 | 0.0019 | P | 0.6 |
| 3 | ☐ | 50.000 | 51.020 | 2410345.68 | 0.0887 | A | 1.4 |
| 4 | ☐ | 125.000 | 125.158 | 5894713.10 | 0.2174 | A | 1.2 |
| 5 | ☐ | 250.000 | 250.752 | 11713536.63 | 0.4354 | A | 2.0 |
| 6 | ☐ | 500.000 | 498.039 | 23198508.54 | 0.8647 | A | 1.0 |
| 7 | ☐ | 1000.000 | 1000.722 | 45973874.87 | 1.7374 | A | 0.6 |
| 8 | ☐ | | | 136274.86 | 0.0055 | P | 0.8 |

y = 0.0017 * x + 1.0448E-004
R = 1.0000
DL = 0.01018
BEC = 0.06018

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 913.37 | 0.0000 | P | 0.9 |
| 2 | ☐ | 1.000 | 1.028 | 30819.64 | 0.0011 | P | 0.7 |
| 3 | ☐ | 50.000 | 51.000 | 1497319.02 | 0.0551 | A | 2.0 |
| 4 | ☐ | 125.000 | 125.544 | 3675817.06 | 0.1356 | A | 1.3 |
| 5 | ☐ | 250.000 | 250.667 | 7280292.88 | 0.2706 | A | 2.2 |
| 6 | ☐ | 500.000 | 506.355 | 14665439.92 | 0.5466 | A | 1.7 |
| 7 | ☐ | 1000.000 | 996.538 | 28467033.47 | 1.0758 | A | 0.8 |
| 8 | ☐ | | | 46238.69 | 0.0019 | P | 0.2 |

y = 0.0011 * x + 3.3766E-005
R = 1.0000
DL = 0.0008525
BEC = 0.03128

Weight: <None>
Min Conc: 0

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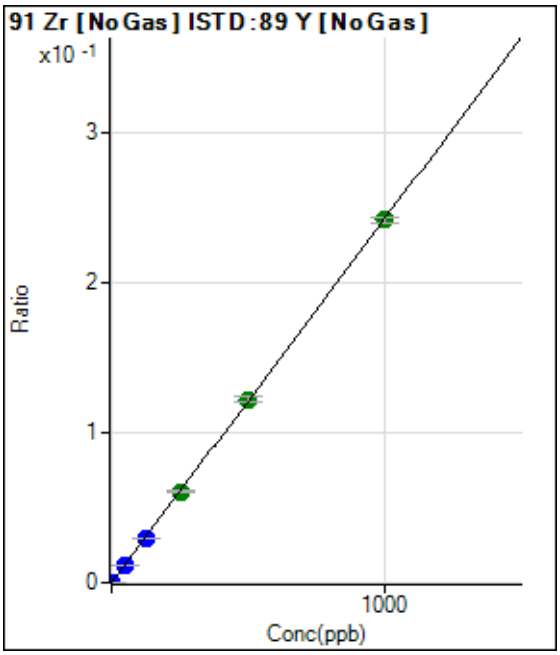
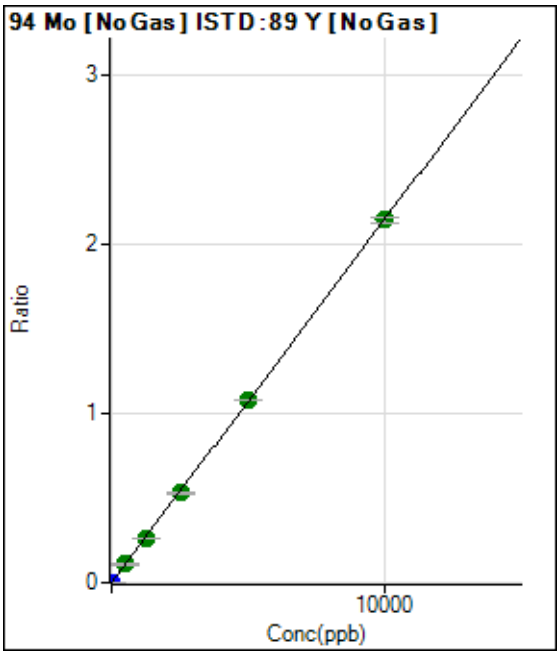



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 174.45 | 0.0000 | P | 10.5 |
| 2 | ☐ | 1.000 | 1.011 | 6780.59 | 0.0003 | P | 2.2 |
| 3 | ☐ | 50.000 | 49.304 | 325406.46 | 0.0120 | P | 2.6 |
| 4 | ☐ | 125.000 | 121.120 | 797307.97 | 0.0294 | P | 1.0 |
| 5 | ☐ | 250.000 | 250.640 | 1636637.43 | 0.0608 | A | 2.2 |
| 6 | ☐ | 500.000 | 504.843 | 3287332.35 | 0.1225 | A | 2.3 |
| 7 | ☐ | 1000.000 | 997.938 | 6409197.75 | 0.2422 | A | 1.4 |
| 8 | ☐ | | | 10289.43 | 0.0004 | P | 0.9 |

y = 2.4270E-004 * x + 6.4489E-006
R = 1.0000
DL = 0.008347
BEC = 0.02657

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 391.12 | 0.0000 | P | 11.5 |
| 2 | ☐ | 5.000 | 6.230 | 36412.05 | 0.0014 | P | 1.0 |
| 3 | ☐ | 500.000 | 504.362 | 2942752.00 | 0.1083 | A | 2.7 |
| 4 | ☐ | 1250.000 | 1234.020 | 7183080.38 | 0.2649 | A | 0.1 |
| 5 | ☐ | 2500.000 | 2481.328 | 14327663.40 | 0.5326 | A | 2.3 |
| 6 | ☐ | 5000.000 | 5027.630 | 28951671.24 | 1.0791 | A | 0.8 |
| 7 | ☐ | 10000.000 | 9992.632 | 56753204.71 | 2.1448 | A | 1.4 |
| 8 | ☐ | | | 40232.46 | 0.0016 | P | 0.9 |

y = 2.1464E-004 * x + 1.4461E-005
R = 1.0000
DL = 0.02315
BEC = 0.06737

Weight: <None>
Min Conc: 0

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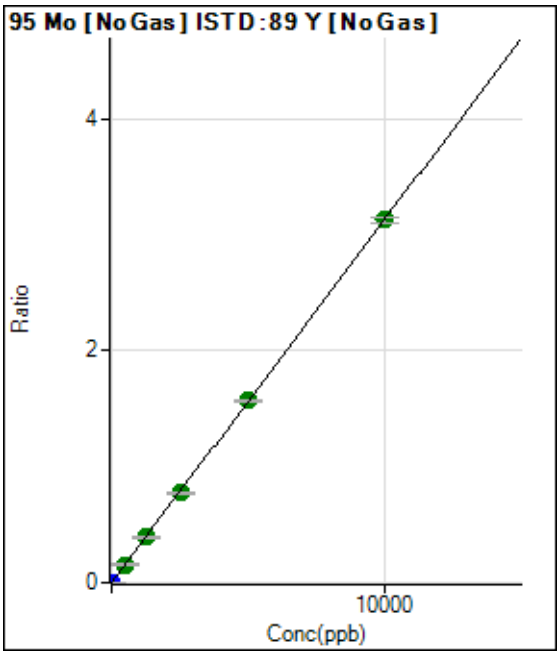
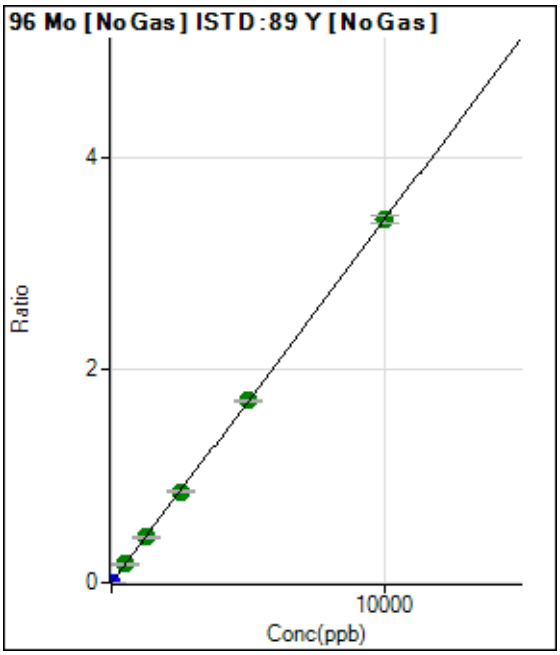
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 152.23 | 0.0000 | P | 12.5 |
| 2 | ☐ | 5.000 | 5.167 | 43726.33 | 0.0016 | P | 0.6 |
| 3 | ☐ | 500.000 | 502.824 | 4278614.90 | 0.1574 | A | 1.4 |
| 4 | ☐ | 1250.000 | 1248.540 | 10597854.98 | 0.3908 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2487.536 | 20947410.10 | 0.7786 | A | 2.1 |
| 6 | ☐ | 5000.000 | 5012.688 | 42095429.37 | 1.5691 | A | 1.1 |
| 7 | ☐ | 10000.000 | 9996.813 | 82800687.10 | 3.1292 | A | 1.4 |
| 8 | ☐ | | | 41343.55 | 0.0017 | P | 1.8 |

y = 3.1302E-004 * x + 5.6281E-006
R = 1.0000
DL = 0.006769
BEC = 0.01798

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 245.56 | 0.0000 | P | 6.5 |
| 2 | ☐ | 5.000 | 5.321 | 49197.85 | 0.0018 | P | 1.4 |
| 3 | ☐ | 500.000 | 506.172 | 4699074.41 | 0.1729 | A | 1.3 |
| 4 | ☐ | 1250.000 | 1246.948 | 11548227.88 | 0.4259 | A | 0.6 |
| 5 | ☐ | 2500.000 | 2496.006 | 22931215.21 | 0.8524 | A | 2.5 |
| 6 | ☐ | 5000.000 | 5008.971 | 45893952.65 | 1.7106 | A | 1.3 |
| 7 | ☐ | 10000.000 | 9996.586 | 90334759.76 | 3.4140 | A | 2.0 |
| 8 | ☐ | | | 47771.86 | 0.0019 | P | 1.7 |

y = 3.4151E-004 * x + 9.0788E-006
R = 1.0000
DL = 0.005151
BEC = 0.02658

Weight: <None>
Min Conc: 0

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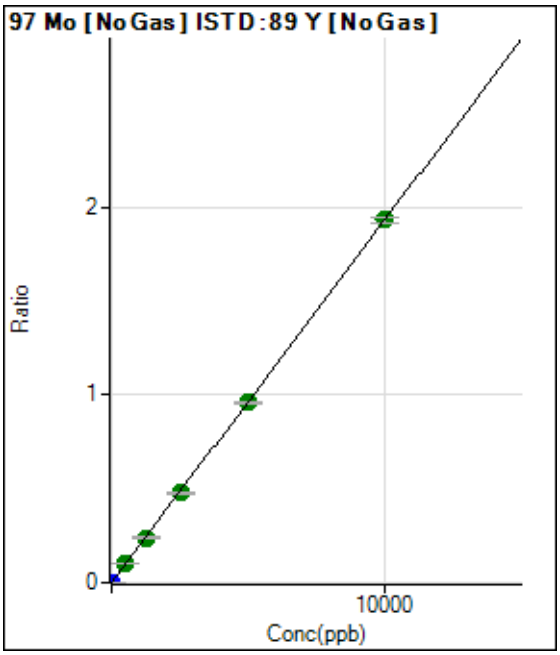
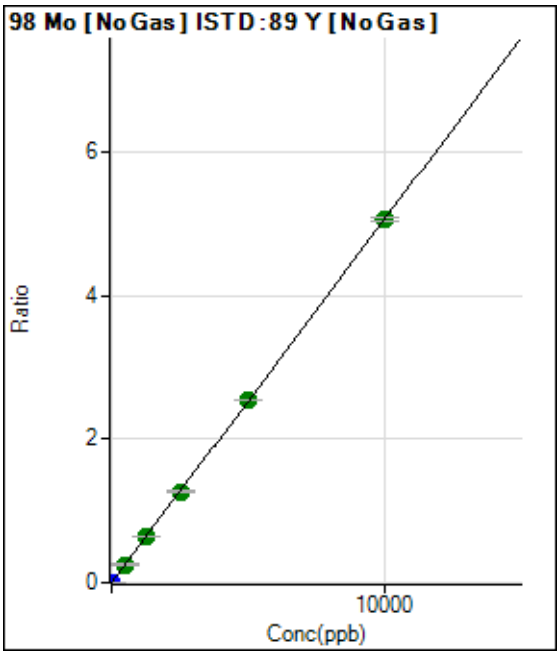



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 122.22 | 0.0000 | P | 11.2 |
| 2 | ☐ | 5.000 | 5.281 | 27557.40 | 0.0010 | P | 0.6 |
| 3 | ☐ | 500.000 | 510.788 | 2677493.29 | 0.0985 | A | 1.7 |
| 4 | ☐ | 1250.000 | 1246.636 | 6519029.76 | 0.2404 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2490.455 | 12919576.75 | 0.4803 | A | 2.4 |
| 6 | ☐ | 5000.000 | 4979.357 | 25761610.17 | 0.9602 | A | 0.8 |
| 7 | ☐ | 10000.000 | 10012.589 | 51090981.46 | 1.9308 | A | 1.7 |
| 8 | ☐ | | | 25497.94 | 0.0010 | P | 1.0 |

y = 1.9284E-004 * x + 4.5188E-006
R = 1.0000
DL = 0.007839
BEC = 0.02343

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 196.67 | 0.0000 | P | 9.6 |
| 2 | ☐ | 5.000 | 5.179 | 70761.38 | 0.0026 | P | 0.6 |
| 3 | ☐ | 500.000 | 502.440 | 6906871.50 | 0.2541 | A | 2.0 |
| 4 | ☐ | 1250.000 | 1247.750 | 17112852.80 | 0.6310 | A | 0.6 |
| 5 | ☐ | 2500.000 | 2500.990 | 34024028.66 | 1.2649 | A | 2.8 |
| 6 | ☐ | 5000.000 | 5027.166 | 68212822.32 | 2.5425 | A | 0.8 |
| 7 | ☐ | 10000.000 | 9986.329 | 133643052.4 | 5.0505 | A | 1.1 |
| 8 | ☐ | | | 65447.77 | 0.0026 | P | 0.6 |

y = 5.0574E-004 * x + 7.2715E-006
R = 1.0000
DL = 0.004143
BEC = 0.01438

Weight: <None>
Min Conc: 0

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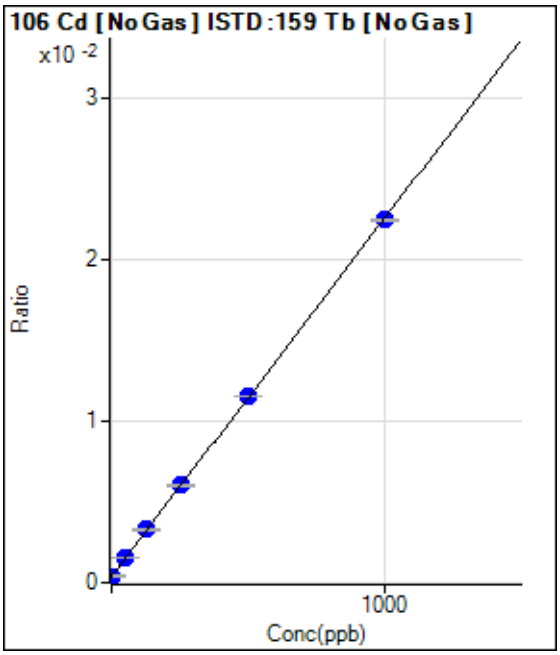
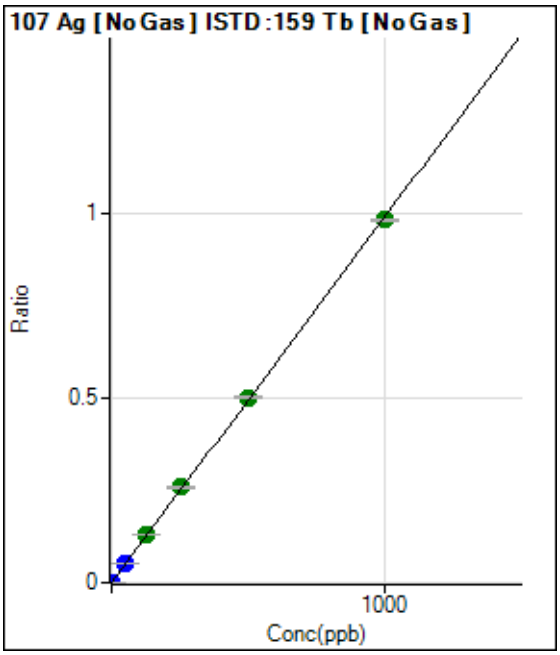



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8269.21 | 0.0004 | P | 0.7 |
| 2 | ☐ | 1.000 | 0.475 | 8583.87 | 0.0004 | P | 4.0 |
| 3 | ☐ | 50.000 | 53.290 | 33574.09 | 0.0016 | P | 1.4 |
| 4 | ☐ | 125.000 | 130.198 | 69305.01 | 0.0033 | P | 1.1 |
| 5 | ☐ | 250.000 | 255.105 | 127219.42 | 0.0061 | P | 2.4 |
| 6 | ☐ | 500.000 | 503.967 | 244847.64 | 0.0116 | P | 0.5 |
| 7 | ☐ | 1000.000 | 995.927 | 467069.89 | 0.0225 | P | 0.6 |
| 8 | ☐ | | | 7897.89 | 0.0004 | P | 2.8 |

y = 2.2169E-005 * x + 4.0012E-004
R = 1.0000
DL = 0.361
BEC = 18.05

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 232.23 | 0.0000 | P | 7.7 |
| 2 | ☐ | 1.000 | 1.052 | 21977.59 | 0.0011 | P | 1.9 |
| 3 | ☐ | 50.000 | 52.011 | 1091906.39 | 0.0514 | P | 1.4 |
| 4 | ☐ | 125.000 | 132.119 | 2755006.56 | 0.1306 | A | 0.4 |
| 5 | ☐ | 250.000 | 260.734 | 5416344.64 | 0.2578 | A | 2.1 |
| 6 | ☐ | 500.000 | 506.633 | 10598469.63 | 0.5009 | A | 1.0 |
| 7 | ☐ | 1000.000 | 993.010 | 20400324.14 | 0.9818 | A | 0.7 |
| 8 | ☐ | | | 3576.06 | 0.0002 | P | 2.7 |

y = 9.8873E-004 * x + 1.1244E-005
R = 0.9999
DL = 0.002643
BEC = 0.01137

Weight: <None>
Min Conc: 0

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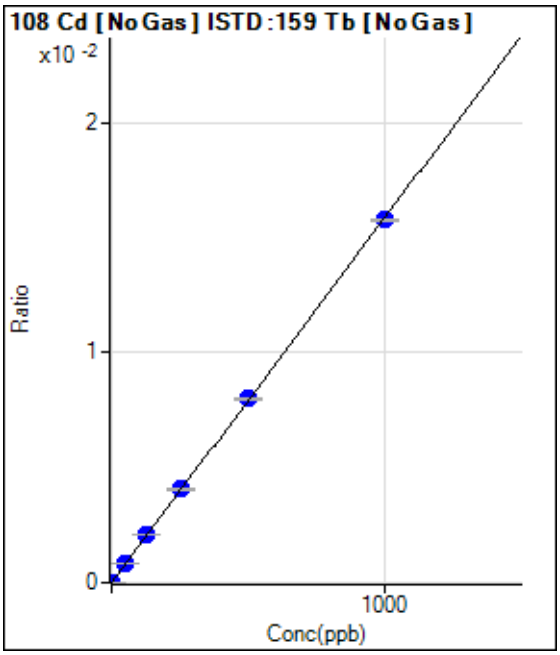
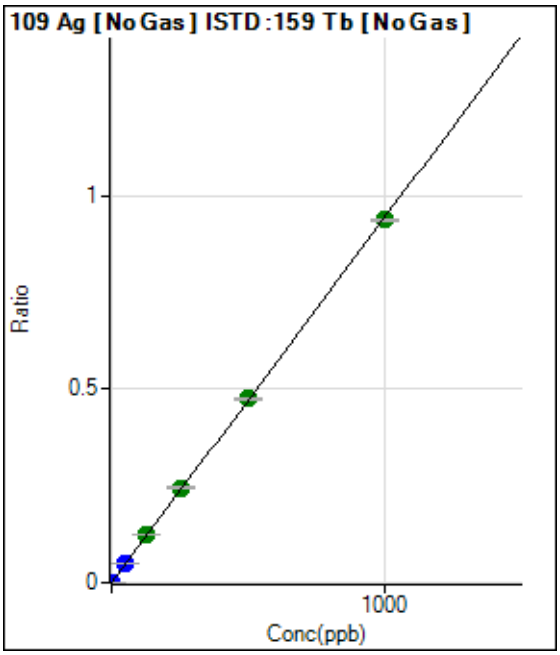



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20.00 | 0.0000 | P | 43.1 |
| 2 | ☐ | 1.000 | 1.069 | 374.45 | 0.0000 | P | 5.8 |
| 3 | ☐ | 50.000 | 52.508 | 17692.57 | 0.0008 | P | 2.3 |
| 4 | ☐ | 125.000 | 131.307 | 43924.10 | 0.0021 | P | 0.7 |
| 5 | ☐ | 250.000 | 257.135 | 85667.25 | 0.0041 | P | 2.9 |
| 6 | ☐ | 500.000 | 504.141 | 169137.44 | 0.0080 | P | 0.8 |
| 7 | ☐ | 1000.000 | 995.232 | 327895.52 | 0.0158 | P | 0.6 |
| 8 | ☐ | | | 264.45 | 0.0000 | P | 22.2 |

y = 1.5855E-005 * x + 9.6494E-007
R = 0.9999
DL = 0.07876
BEC = 0.06086

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.66 | 0.0000 | P | 17.9 |
| 2 | ☐ | 1.000 | 1.067 | 21104.05 | 0.0010 | P | 1.9 |
| 3 | ☐ | 50.000 | 52.147 | 1043710.47 | 0.0492 | P | 1.8 |
| 4 | ☐ | 125.000 | 132.450 | 2633330.61 | 0.1249 | A | 1.1 |
| 5 | ☐ | 250.000 | 258.777 | 5125797.43 | 0.2440 | A | 2.1 |
| 6 | ☐ | 500.000 | 505.377 | 10080838.12 | 0.4765 | A | 1.2 |
| 7 | ☐ | 1000.000 | 994.079 | 19473775.13 | 0.9372 | A | 0.8 |
| 8 | ☐ | | | 3310.43 | 0.0002 | P | 8.7 |

y = 9.4279E-004 * x + 3.2280E-006
R = 0.9999
DL = 0.001837
BEC = 0.003424

Weight: <None>
Min Conc: 0

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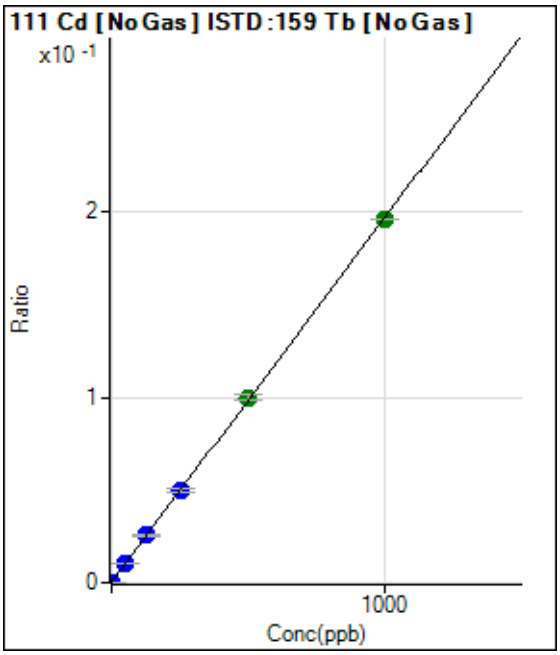
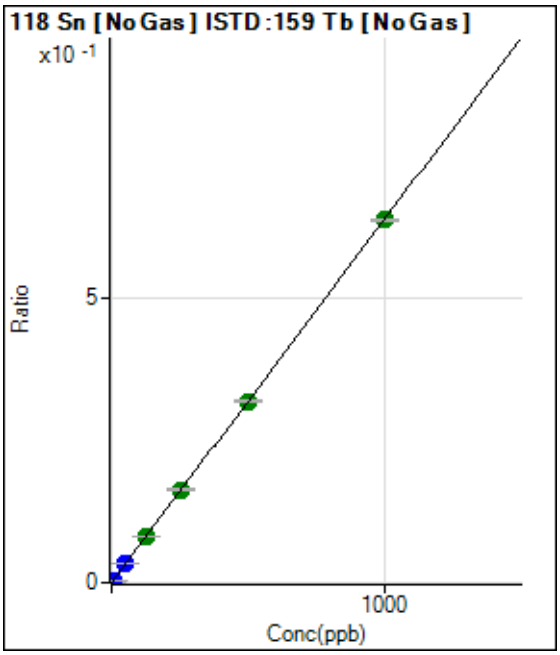



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5794.45 | 0.0003 | P | 0.8 |
| 2 | ☐ | 1.000 | 1.092 | 10342.96 | 0.0005 | P | 2.3 |
| 3 | ☐ | 50.000 | 52.063 | 222924.08 | 0.0105 | P | 1.6 |
| 4 | ☐ | 125.000 | 128.359 | 537297.32 | 0.0255 | P | 1.7 |
| 5 | ☐ | 250.000 | 252.065 | 1045505.93 | 0.0498 | P | 2.6 |
| 6 | ☐ | 500.000 | 507.835 | 2115317.97 | 0.1000 | A | 2.4 |
| 7 | ☐ | 1000.000 | 995.043 | 4064870.65 | 0.1956 | A | 0.1 |
| 8 | ☐ | | | 6083.44 | 0.0003 | P | 3.6 |

y = 1.9632E-004 * x + 2.8038E-004
R = 0.9999
DL = 0.03577
BEC = 1.428

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3199.33 | 0.0002 | P | 1.4 |
| 2 | ☐ | 5.000 | 5.406 | 75531.26 | 0.0036 | P | 1.0 |
| 3 | ☐ | 50.000 | 51.155 | 697930.70 | 0.0329 | P | 1.7 |
| 4 | ☐ | 125.000 | 128.995 | 1743462.38 | 0.0827 | A | 0.2 |
| 5 | ☐ | 250.000 | 255.483 | 3437226.72 | 0.1636 | A | 1.4 |
| 6 | ☐ | 500.000 | 499.030 | 6757281.01 | 0.3194 | A | 0.6 |
| 7 | ☐ | 1000.000 | 998.555 | 13275721.05 | 0.6389 | A | 0.7 |
| 8 | ☐ | | | 4106.22 | 0.0002 | P | 7.3 |

y = 6.3969E-004 * x + 1.5482E-004
R = 1.0000
DL = 0.01045
BEC = 0.242

Weight: <None>
Min Conc: 0

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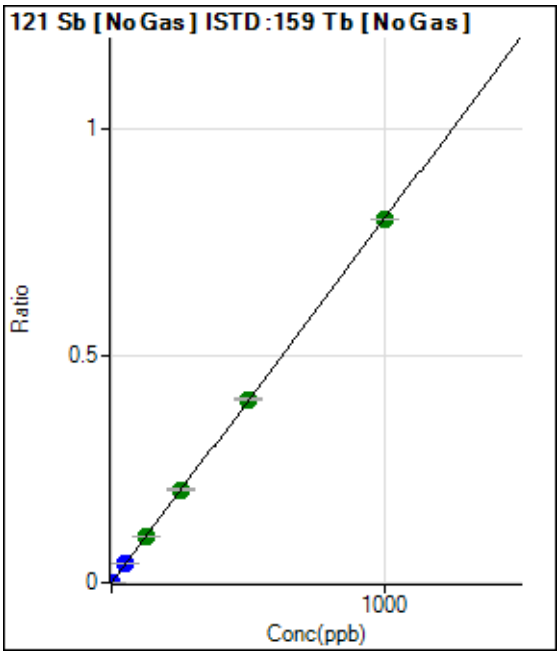
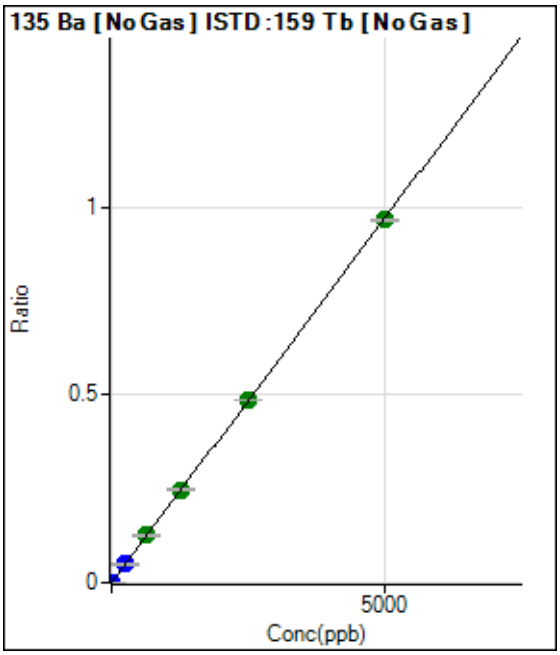



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 52.22 | 0.0000 | P | 20.8 |
| 2 | ☐ | 2.000 | 2.170 | 36398.34 | 0.0017 | P | 1.1 |
| 3 | ☐ | 50.000 | 50.695 | 862187.81 | 0.0406 | P | 1.5 |
| 4 | ☐ | 125.000 | 128.994 | 2179274.22 | 0.1033 | A | 0.3 |
| 5 | ☐ | 250.000 | 254.133 | 4277443.27 | 0.2036 | A | 1.9 |
| 6 | ☐ | 500.000 | 503.651 | 8536571.33 | 0.4035 | A | 0.8 |
| 7 | ☐ | 1000.000 | 996.607 | 16589281.14 | 0.7984 | A | 0.0 |
| 8 | ☐ | | | 13604.64 | 0.0007 | P | 3.0 |

y = 8.0110E-004 * x + 2.5284E-006
R = 1.0000
DL = 0.001972
BEC = 0.003156

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 258.90 | 0.0000 | P | 3.4 |
| 2 | ☐ | 10.000 | 10.674 | 43544.16 | 0.0021 | P | 1.5 |
| 3 | ☐ | 250.000 | 252.123 | 1038393.20 | 0.0489 | P | 1.1 |
| 4 | ☐ | 625.000 | 650.192 | 2659638.67 | 0.1261 | A | 1.5 |
| 5 | ☐ | 1250.000 | 1270.549 | 5177905.86 | 0.2464 | A | 1.9 |
| 6 | ☐ | 2500.000 | 2516.167 | 10325885.82 | 0.4880 | A | 0.2 |
| 7 | ☐ | 5000.000 | 4983.523 | 20084869.70 | 0.9666 | A | 0.5 |
| 8 | ☐ | | | 7615.55 | 0.0004 | P | 2.4 |

y = 1.9396E-004 * x + 1.2526E-005
R = 1.0000
DL = 0.006518
BEC = 0.06458

Weight: <None>
Min Conc: 0

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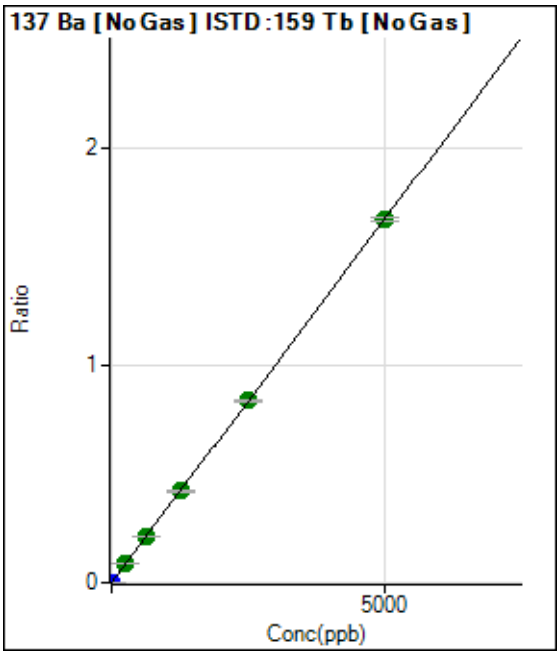
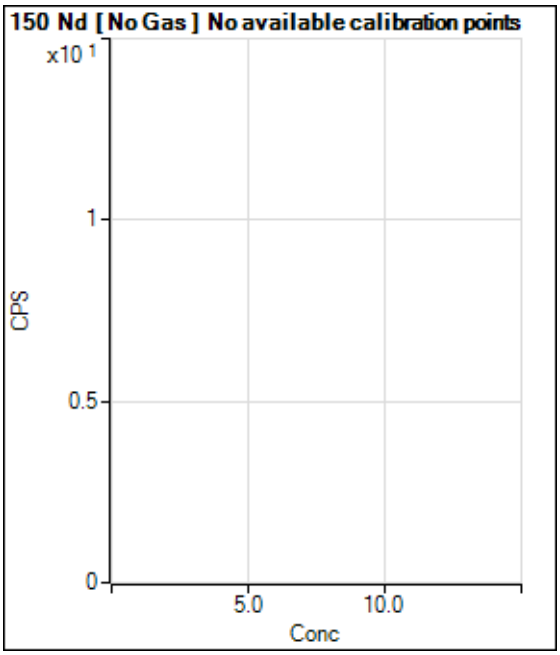



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 338.90 | 0.0000 | P | 6.9 |
| 2 | ☐ | 10.000 | 10.756 | 75685.51 | 0.0036 | P | 1.4 |
| 3 | ☐ | 250.000 | 257.171 | 1829544.00 | 0.0862 | A | 1.1 |
| 4 | ☐ | 625.000 | 640.558 | 4525920.42 | 0.2146 | A | 2.3 |
| 5 | ☐ | 1250.000 | 1263.268 | 8892373.48 | 0.4233 | A | 2.6 |
| 6 | ☐ | 2500.000 | 2501.767 | 17734934.73 | 0.8382 | A | 0.6 |
| 7 | ☐ | 5000.000 | 4993.495 | 34762336.70 | 1.6731 | A | 1.2 |
| 8 | ☐ | | | 13198.77 | 0.0007 | P | 2.6 |

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

Weight: <None>
Min Conc: 0




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

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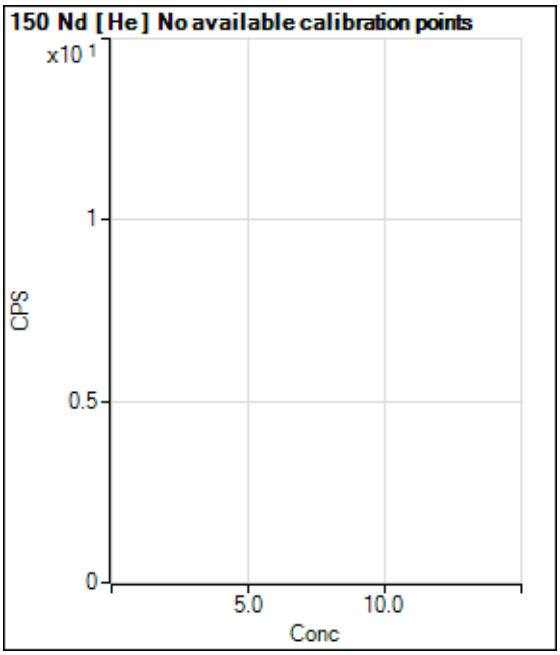
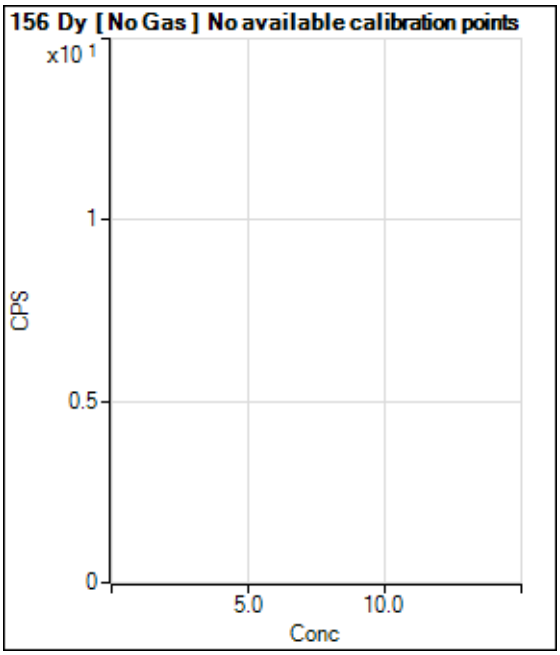



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1.11 | | P | 173.2 |
| 2 | ☐ | | | 3.33 | | P | 100.1 |
| 3 | ☐ | | | 3.33 | | P | 100.1 |
| 4 | ☐ | | | 3.33 | | P | 173.2 |
| 5 | ☐ | | | 12.22 | | P | 56.8 |
| 6 | ☐ | | | 16.67 | | P | 20.0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




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

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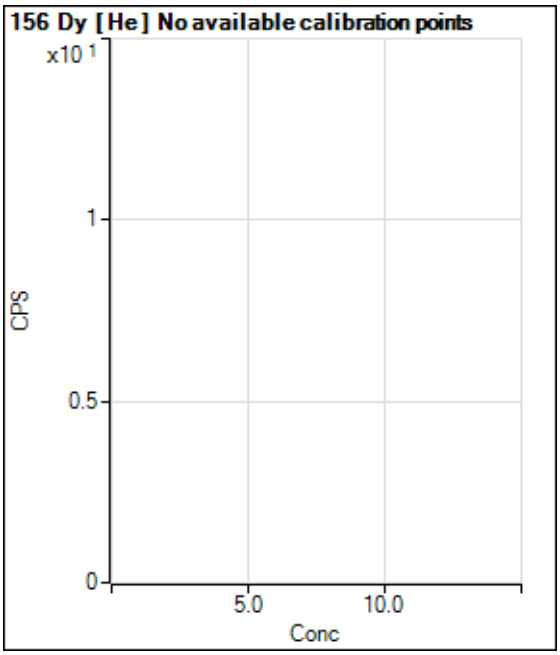
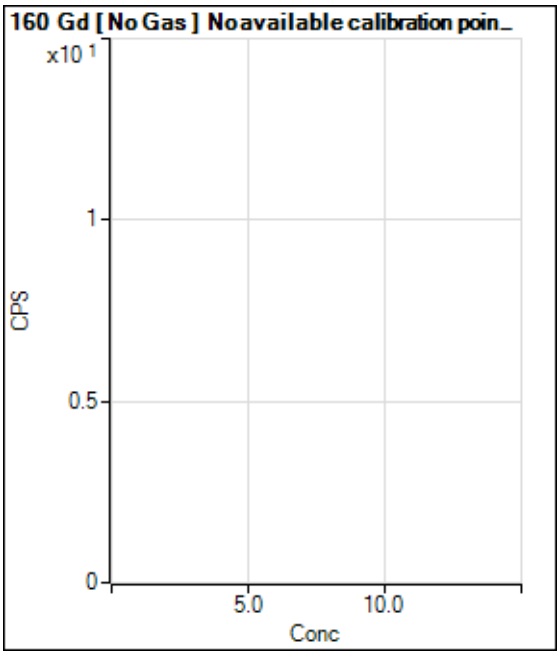
Inst Id :P8




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




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 135.56 | | P | 14.8 |
| 2 | ☐ | | | 131.12 | | P | 8.2 |
| 3 | ☐ | | | 123.34 | | P | 27.0 |
| 4 | ☐ | | | 145.56 | | P | 16.6 |
| 5 | ☐ | | | 165.56 | | P | 15.1 |
| 6 | ☐ | | | 203.34 | | P | 12.8 |
| 7 | ☐ | | | 245.56 | | P | 5.7 |
| 8 | ☐ | | | 626.69 | | P | 4.5 |

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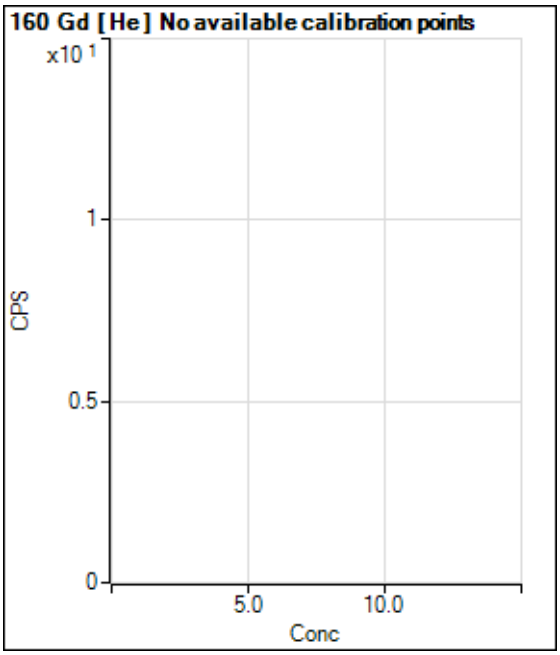
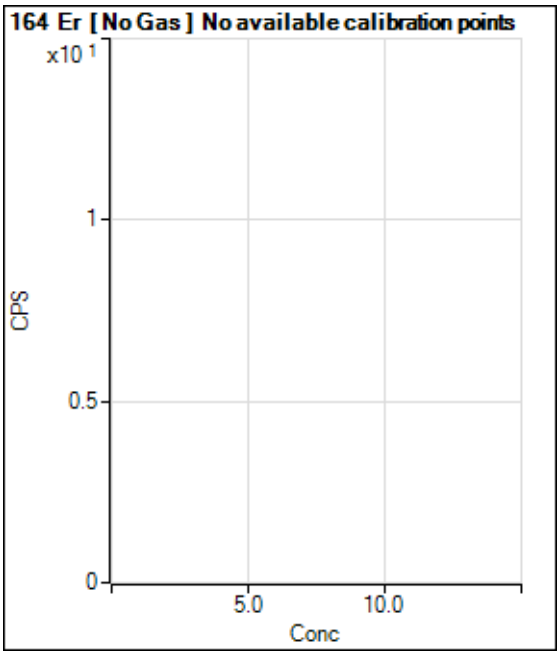



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 25.56 | | P | 49.4 |
| 2 | ☐ | | | 18.89 | | P | 27.0 |
| 3 | ☐ | | | 16.67 | | P | 20.0 |
| 4 | ☐ | | | 28.89 | | P | 37.1 |
| 5 | ☐ | | | 37.78 | | P | 35.7 |
| 6 | ☐ | | | 54.44 | | P | 9.4 |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




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

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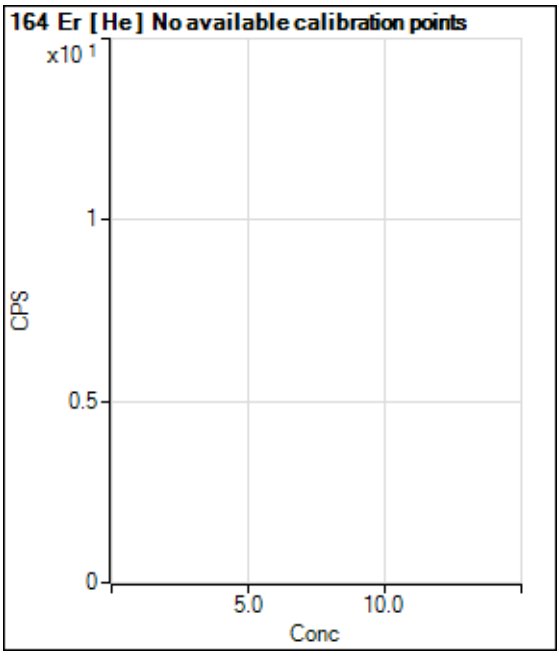
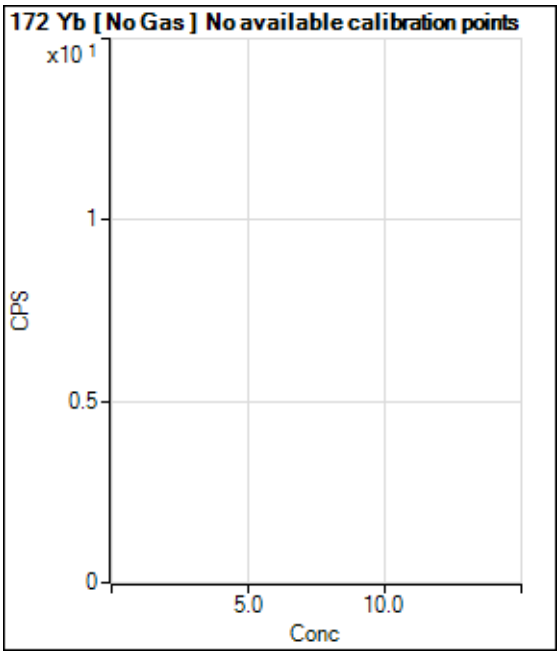



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 32.22 | | P | 21.5 |
| 2 | ☐ | | | 26.67 | | P | 37.5 |
| 3 | ☐ | | | 41.11 | | P | 18.7 |
| 4 | ☐ | | | 46.67 | | P | 28.6 |
| 5 | ☐ | | | 54.45 | | P | 19.7 |
| 6 | ☐ | | | 55.55 | | P | 12.5 |
| 7 | ☐ | | | 97.78 | | P | 20.5 |
| 8 | ☐ | | | 225.56 | | P | 14.6 |




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

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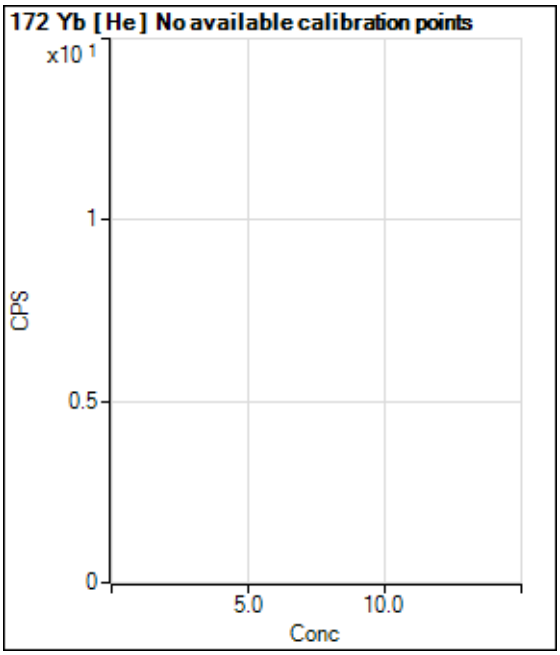
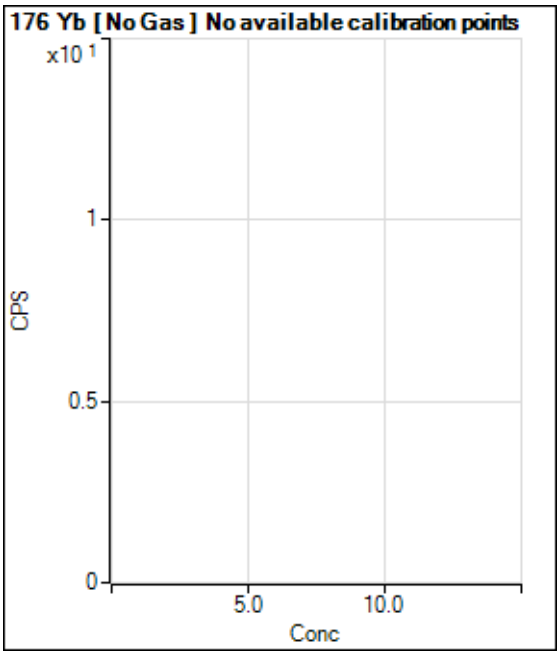



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 34.44 | | P | 47.7 |
| 2 | ☐ | | | 40.00 | | P | 30.0 |
| 3 | ☐ | | | 47.78 | | P | 14.5 |
| 4 | ☐ | | | 54.44 | | P | 9.4 |
| 5 | ☐ | | | 75.55 | | P | 22.2 |
| 6 | ☐ | | | 58.89 | | P | 18.2 |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




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 2189.10 | | P | 15.6 |
| 2 | ☐ | | | 2255.77 | | P | 4.4 |
| 3 | ☐ | | | 6351.59 | | P | 1.6 |
| 4 | ☐ | | | 12213.51 | | P | 1.8 |
| 5 | ☐ | | | 22188.75 | | P | 1.4 |
| 6 | ☐ | | | 41934.12 | | P | 2.2 |
| 7 | ☐ | | | 81353.87 | | P | 0.6 |
| 8 | ☐ | | | 2636.96 | | P | 2.1 |

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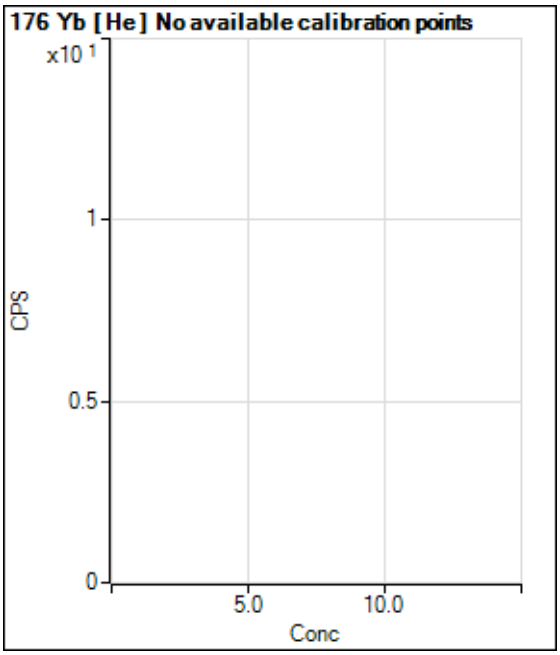
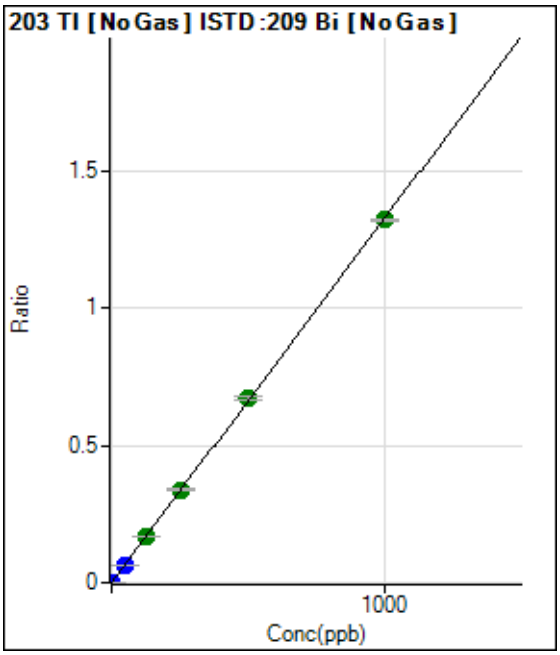



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 372.23 | | P | 8.5 |
| 2 | ☐ | | | 364.45 | | P | 9.8 |
| 3 | ☐ | | | 1597.89 | | P | 4.4 |
| 4 | ☐ | | | 3502.72 | | P | 0.7 |
| 5 | ☐ | | | 6598.38 | | P | 1.5 |
| 6 | ☐ | | | 13139.95 | | P | 1.5 |
| 7 | ☐ | | | 25828.58 | | P | 0.3 |
| 8 | ☐ | | | 527.79 | | P | 6.0 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 378.90 | 0.0000 | P | 9.1 |
| 2 | ☐ | 1.000 | 1.022 | 18387.57 | 0.0014 | P | 2.3 |
| 3 | ☐ | 50.000 | 49.097 | 870915.41 | 0.0652 | P | 1.3 |
| 4 | ☐ | 125.000 | 125.576 | 2198868.73 | 0.1667 | A | 1.2 |
| 5 | ☐ | 250.000 | 253.695 | 4390439.31 | 0.3368 | A | 2.2 |
| 6 | ☐ | 500.000 | 505.342 | 8583471.26 | 0.6708 | A | 1.7 |
| 7 | ☐ | 1000.000 | 996.378 | 16498236.97 | 1.3225 | A | 0.8 |
| 8 | ☐ | | | 1481.21 | 0.0001 | P | 6.1 |

y = 0.0013 * x + 2.8773E-005
R = 1.0000
DL = 0.005924
BEC = 0.02168

Weight: <None>
Min Conc: 0

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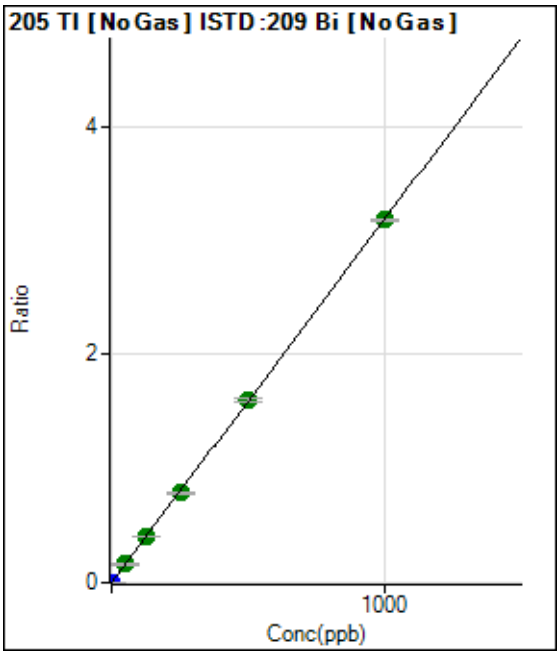
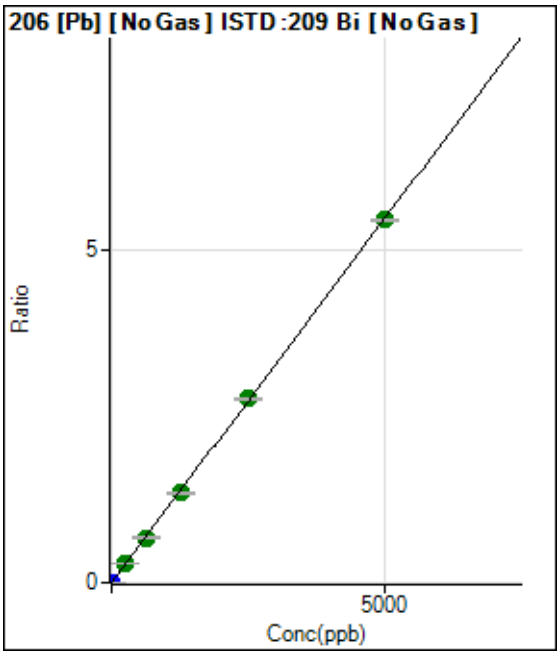



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 924.49 | 0.0001 | P | 6.8 |
| 2 | ☐ | 1.000 | 1.029 | 44425.90 | 0.0033 | P | 0.8 |
| 3 | ☐ | 50.000 | 50.454 | 2146047.26 | 0.1607 | A | 1.4 |
| 4 | ☐ | 125.000 | 125.413 | 5266100.86 | 0.3992 | A | 0.2 |
| 5 | ☐ | 250.000 | 246.593 | 10233455.05 | 0.7849 | A | 2.0 |
| 6 | ☐ | 500.000 | 504.412 | 20543266.50 | 1.6055 | A | 2.2 |
| 7 | ☐ | 1000.000 | 998.572 | 39649768.30 | 3.1782 | A | 0.7 |
| 8 | ☐ | | | 3630.55 | 0.0003 | P | 12.2 |

y = 0.0032 * x + 7.0190E-005
R = 1.0000
DL = 0.004501
BEC = 0.02205

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2149.09 | 0.0002 | P | 4.1 |
| 2 | ☐ | 1.000 | 0.992 | 16577.36 | 0.0012 | P | 1.5 |
| 3 | ☐ | 250.000 | 256.478 | 3751403.03 | 0.2808 | A | 1.3 |
| 4 | ☐ | 625.000 | 619.413 | 8942510.35 | 0.6780 | A | 1.1 |
| 5 | ☐ | 1250.000 | 1241.290 | 17711257.79 | 1.3585 | A | 2.0 |
| 6 | ☐ | 2500.000 | 2531.068 | 35444687.25 | 2.7698 | A | 1.3 |
| 7 | ☐ | 5000.000 | 4987.018 | 68080247.88 | 5.4573 | A | 0.6 |
| 8 | ☐ | | | 14608.32 | 0.0013 | P | 2.0 |

y = 0.0011 * x + 1.6316E-004
R = 1.0000
DL = 0.01856
BEC = 0.1491

Weight: <None>
Min Conc: 0

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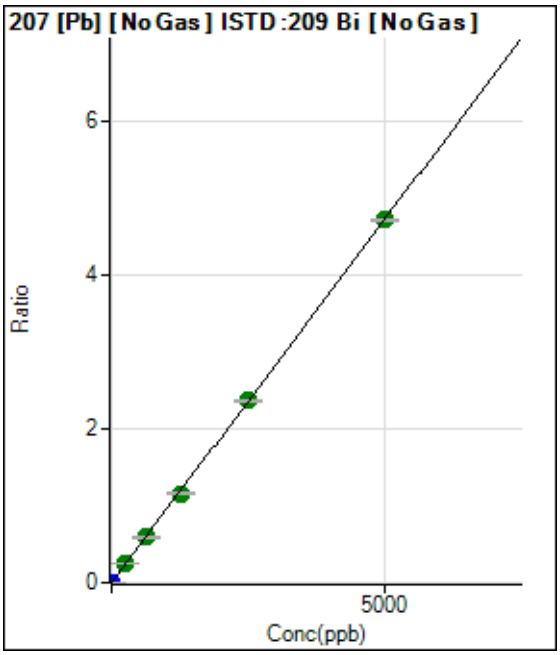
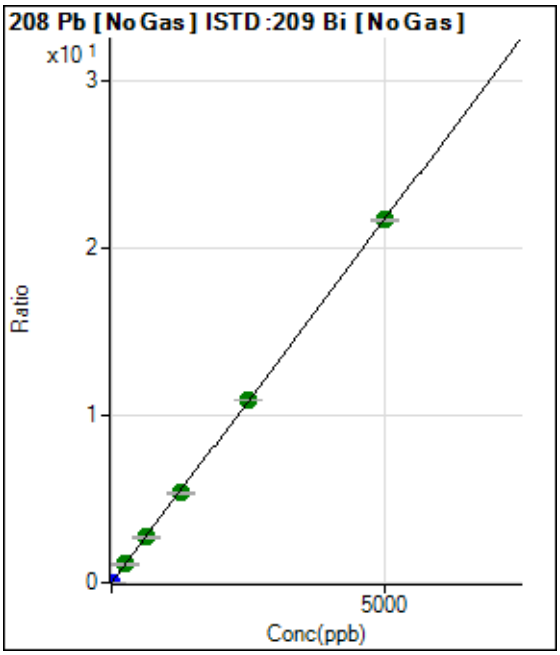



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1734.58 | 0.0001 | P | 4.7 |
| 2 | ☐ | 1.000 | 0.989 | 14113.35 | 0.0011 | P | 0.5 |
| 3 | ☐ | 250.000 | 253.715 | 3193850.86 | 0.2391 | A | 1.1 |
| 4 | ☐ | 625.000 | 622.848 | 7738943.15 | 0.5867 | A | 1.2 |
| 5 | ☐ | 1250.000 | 1229.328 | 15095505.61 | 1.1579 | A | 2.4 |
| 6 | ☐ | 2500.000 | 2514.433 | 30306275.94 | 2.3682 | A | 0.9 |
| 7 | ☐ | 5000.000 | 4998.034 | 58722289.68 | 4.7072 | A | 0.8 |
| 8 | ☐ | | | 12411.59 | 0.0011 | P | 4.1 |

y = 9.4178E-004 * x + 1.3168E-004
R = 1.0000
DL = 0.01967
BEC = 0.1398

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8146.64 | 0.0006 | P | 2.5 |
| 2 | ☐ | 1.000 | 0.998 | 65729.19 | 0.0050 | P | 0.4 |
| 3 | ☐ | 250.000 | 252.313 | 14643378.98 | 1.0962 | A | 1.0 |
| 4 | ☐ | 625.000 | 623.682 | 35727693.22 | 2.7086 | A | 0.9 |
| 5 | ☐ | 1250.000 | 1233.854 | 69852444.24 | 5.3580 | A | 2.4 |
| 6 | ☐ | 2500.000 | 2515.575 | 139786392.0 | 10.9232 | A | 0.9 |
| 7 | ☐ | 5000.000 | 4996.298 | 270640306.5 | 21.6944 | A | 0.6 |
| 8 | ☐ | | | 57768.68 | 0.0053 | P | 3.9 |

y = 0.0043 * x + 6.1846E-004
R = 1.0000
DL = 0.01061
BEC = 0.1424

Weight: <None>
Min Conc: 0

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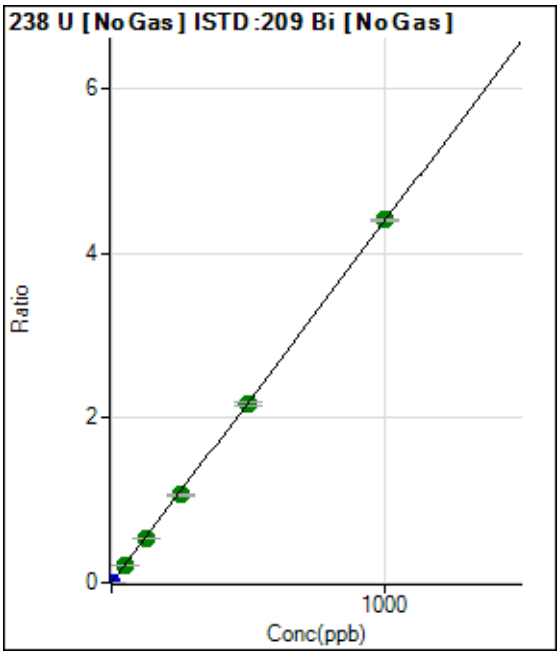
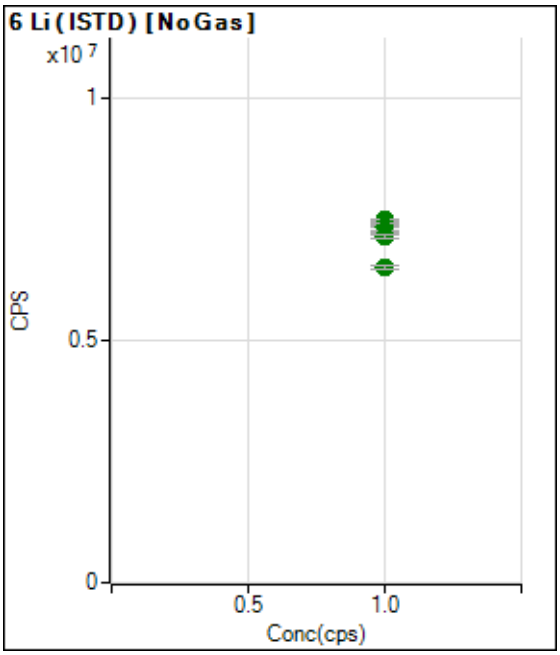



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 164.45 | 0.0000 | P | 24.8 |
| 2 | ☐ | 1.000 | 0.965 | 56322.17 | 0.0042 | P | 0.7 |
| 3 | ☐ | 50.000 | 49.554 | 2901633.08 | 0.2172 | A | 0.7 |
| 4 | ☐ | 125.000 | 122.784 | 7098609.54 | 0.5382 | A | 1.2 |
| 5 | ☐ | 250.000 | 242.499 | 13858141.04 | 1.0629 | A | 2.0 |
| 6 | ☐ | 500.000 | 495.160 | 27770835.42 | 2.1703 | A | 2.0 |
| 7 | ☐ | 1000.000 | 1004.594 | 54930364.18 | 4.4031 | A | 0.7 |
| 8 | ☐ | | | 2419.15 | 0.0002 | P | 9.0 |

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

Weight: <None>
Min Conc: 0




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

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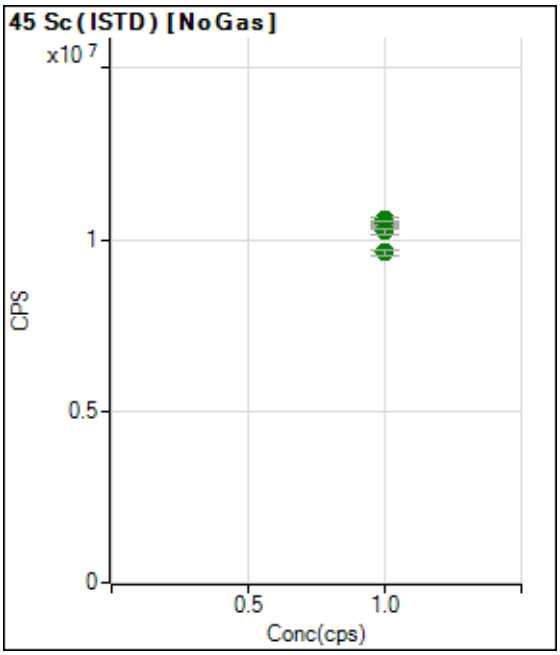
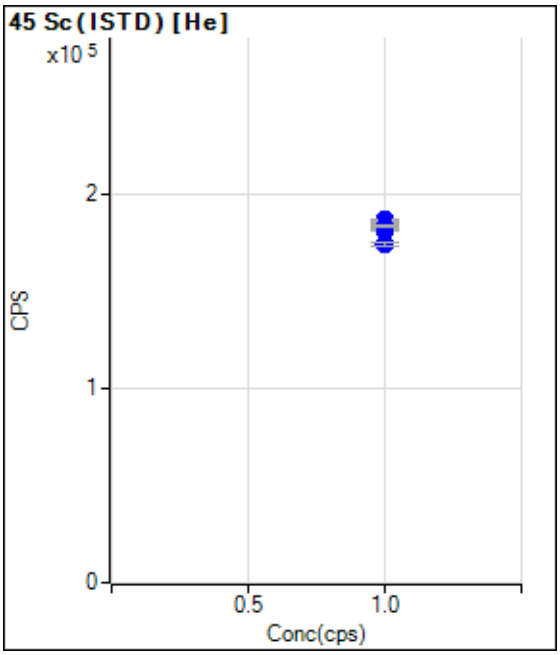



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 10464420.81 | | A | 0.7 |
| 2 | ☐ | 1.000 | | 10402583.87 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 10570873.94 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 10458657.14 | | A | 0.4 |
| 5 | ☐ | 1.000 | | 10482539.64 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 10267841.31 | | A | 2.0 |
| 7 | ☐ | 1.000 | | 10226560.54 | | A | 1.4 |
| 8 | ☐ | 1.000 | | 9618838.75 | | A | 1.5 |




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

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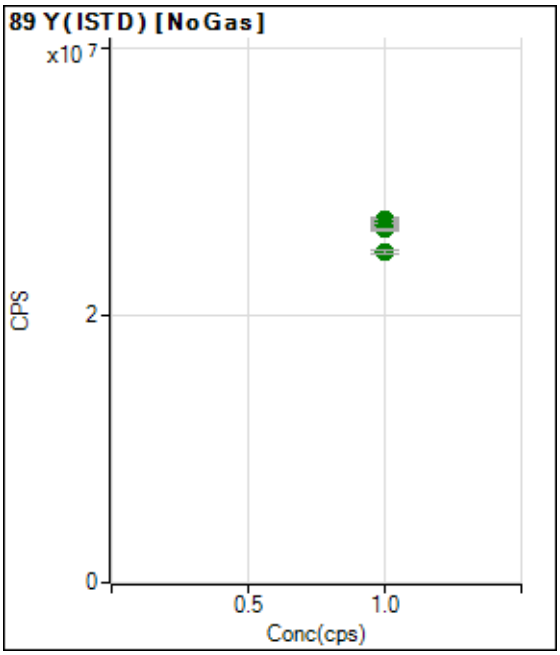
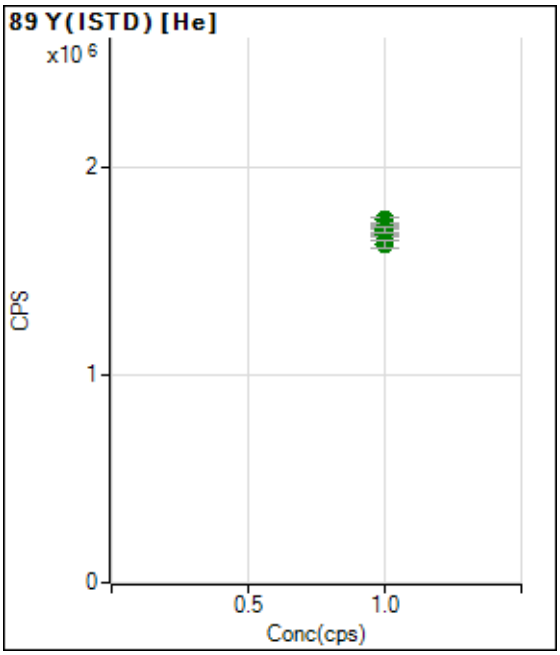



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 27049771.54 | | A | 0.2 |
| 2 | ☐ | 1.000 | | 26941753.77 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 27185464.87 | | A | 1.4 |
| 4 | ☐ | 1.000 | | 27118289.32 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 26909883.49 | | A | 2.1 |
| 6 | ☐ | 1.000 | | 26830286.27 | | A | 1.1 |
| 7 | ☐ | 1.000 | | 26462815.44 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 24838338.52 | | A | 1.1 |




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

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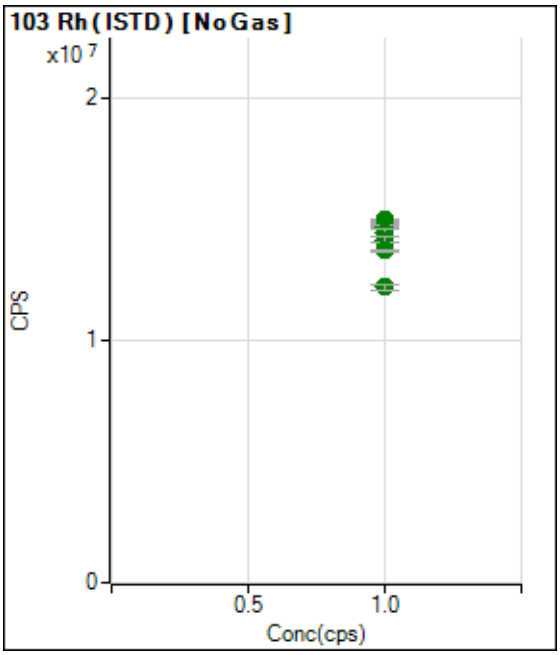
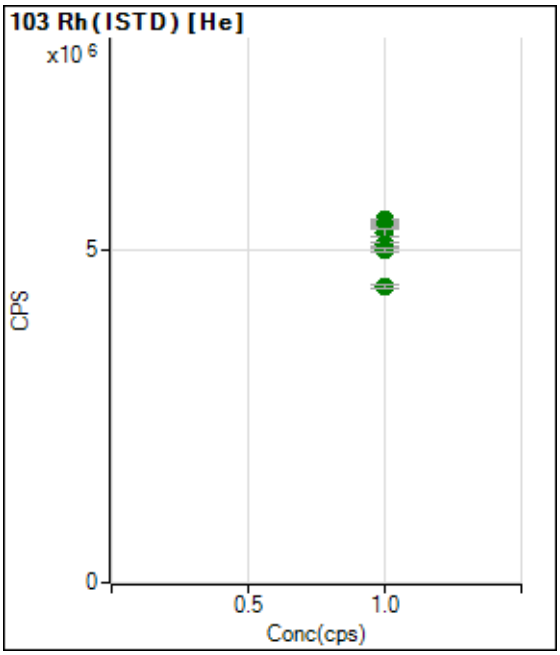



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 14734637.00 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 14971739.50 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 14808382.14 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 14683971.45 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 14422062.98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




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

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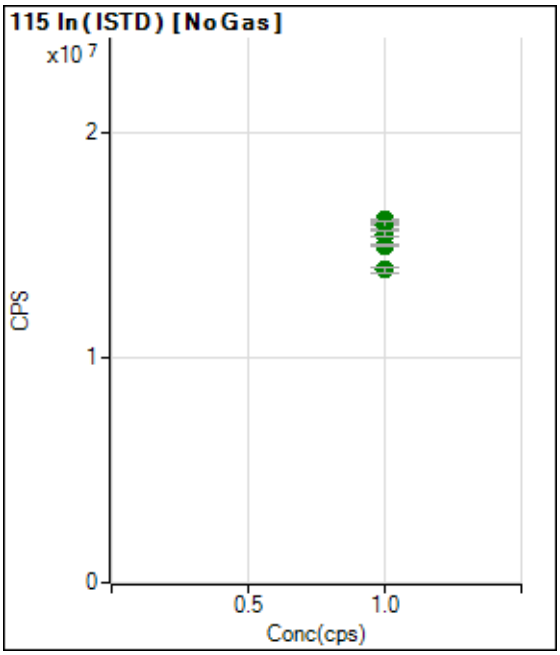
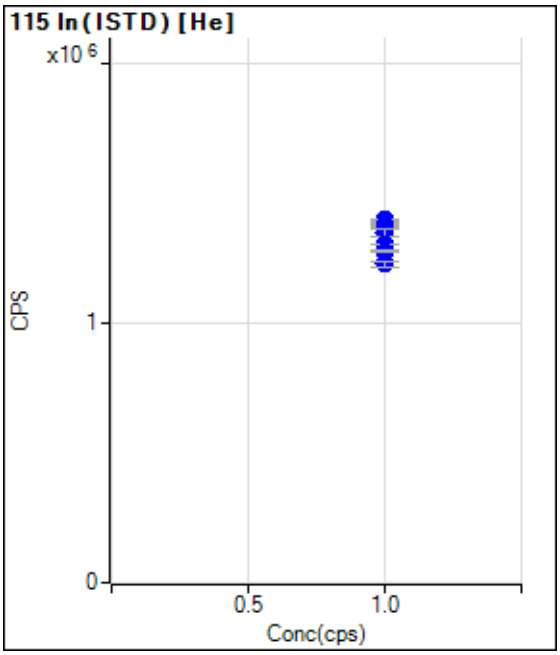
On:2/12/2025 11:10:40 AM
Inst Id :P8

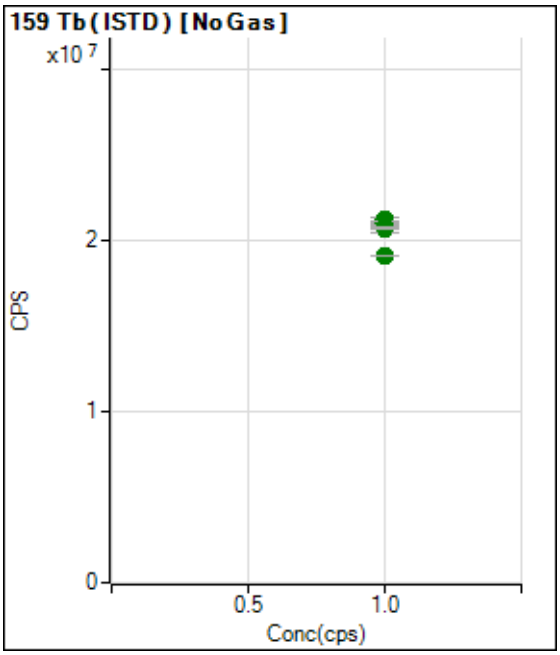



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 16037263.07 | | A | 0.3 |
| 2 | ☐ | 1.000 | | 16147299.06 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 16138883.73 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 15937920.51 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 15889066.42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

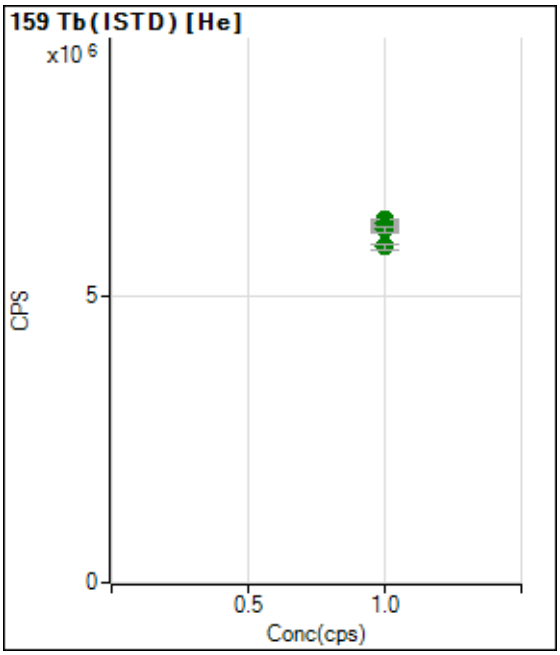



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1386412.82 | | P | 0.3 |
| 2 | ☐ | 1.000 | | 1398261.54 | | P | 0.7 |
| 3 | ☐ | 1.000 | | 1375348.97 | | P | 0.6 |
| 4 | ☐ | 1.000 | | 1365568.58 | | P | 0.2 |
| 5 | ☐ | 1.000 | | 1349042.93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

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

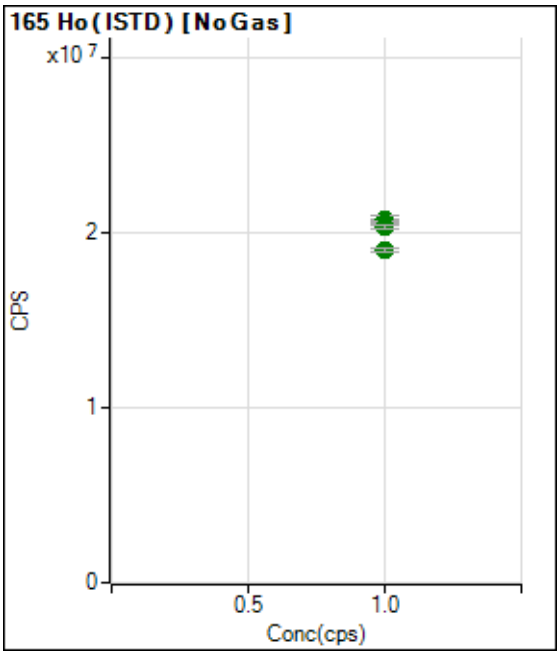



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 20667778.17 | | A | 1.4 |
| 2 | ☐ | 1.000 | | 20907060.52 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 21230676.63 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 21088796.21 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 21014332.47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

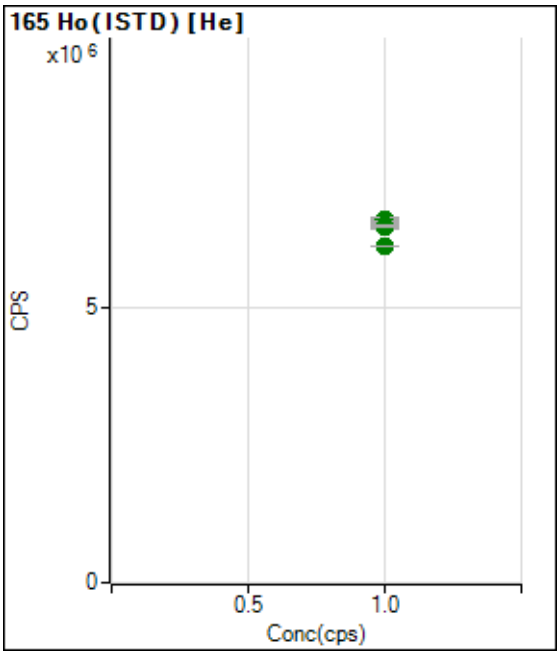



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 6324544.28 | | A | 0.3 |
| 2 | ☐ | 1.000 | | 6272043.17 | | A | 0.5 |
| 3 | ☐ | 1.000 | | 6237170.18 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 6241130.19 | | A | 1.0 |
| 5 | ☐ | 1.000 | | 6254895.67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

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

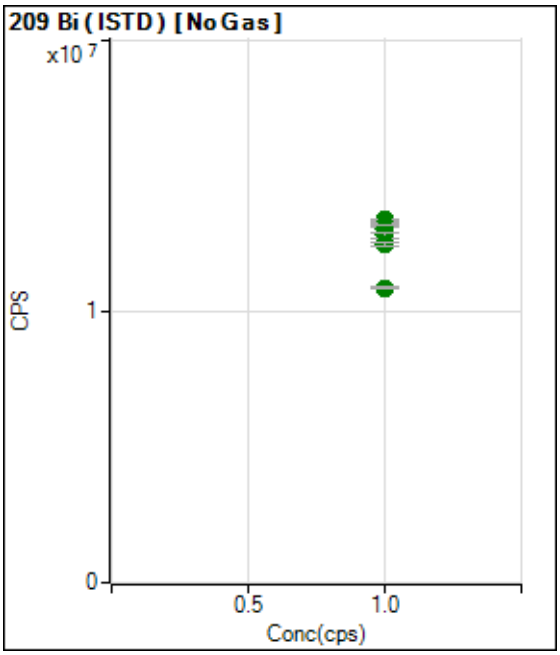



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 20556050.94 | | A | 0.9 |
| 2 | ☐ | 1.000 | | 20696992.19 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 20675908.02 | | A | 0.6 |
| 4 | ☐ | 1.000 | | 20629429.42 | | A | 0.3 |
| 5 | ☐ | 1.000 | | 20735622.33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

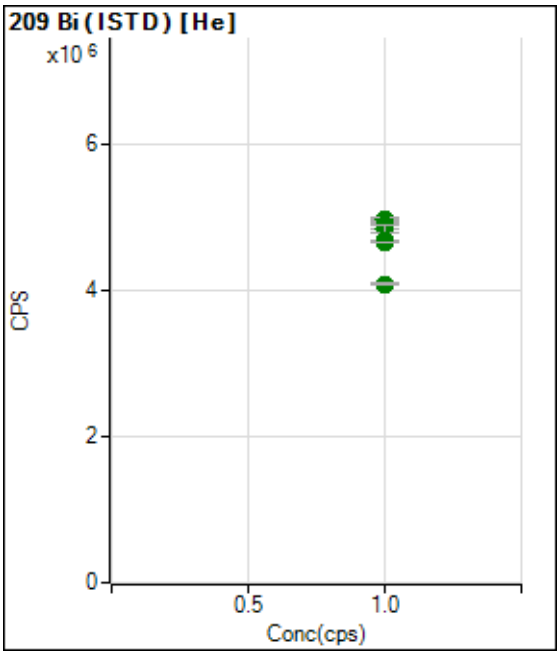



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 6514911.64 | | A | 1.0 |
| 2 | ☐ | 1.000 | | 6552088.93 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 6532102.61 | | A | 0.7 |
| 4 | ☐ | 1.000 | | 6576114.35 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 6475222.33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

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




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 13173314.94 | | A | 0.7 |
| 2 | ☐ | 1.000 | | 13274347.72 | | A | 0.5 |
| 3 | ☐ | 1.000 | | 13358852.16 | | A | 0.3 |
| 4 | ☐ | 1.000 | | 13190892.16 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 13041023.84 | | A | 1.9 |
| 6 | ☐ | 1.000 | | 12798423.28 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 12475585.37 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 10847304.42 | | A | 0.4 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4950087.91 | | A | 0.8 |
| 2 | ☐ | 1.000 | | 4968419.44 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 4901413.89 | | A | 0.1 |
| 4 | ☐ | 1.000 | | 4844027.50 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 4848751.70 | | A | 2.1 |
| 6 | ☐ | 1.000 | | 4674437.26 | | A | 1.0 |
| 7 | ☐ | 1.000 | | 4658149.07 | | A | 0.4 |
| 8 | ☐ | 1.000 | | 4090868.55 | | A | 1.0 |

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

# US EPA Tune Check Report

| | |
|---|---|
| **Operator Name** | Jaswal |
| **Acq/Data Batch** | D:\Agilent\ICPMH\1\DATA\P8021125 MS.b |
| **Acq. Date-Time** | 2025-02-11 11:22:52 |
| **Report Comment** | --- |
| **Instrument Name** | G8403A SG19224459 |

**[No Gas]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 9 | | 33681 | 336808.90 | | | 0.576 | 5.000 |
| 24 | | 317868 | 3178681.60 | | | 0.536 | 5.000 |
| 25 | | 42868 | 428682.00 | | | 0.422 | 5.000 |
| 26 | | 47889 | 478886.16 | | | 0.369 | 5.000 |
| 59 | | 185789 | 1857886.03 | | | 0.885 | 5.000 |
| 113 | | 22196 | 221964.29 | | | 0.425 | 5.000 |
| 115 | | 292044 | 2920437.87 | | | 0.944 | 5.000 |
| 206 | | 71039 | 710393.19 | | | 0.629 | 5.000 |
| 207 | | 61658 | 616576.70 | | | 0.147 | 5.000 |
| 208 | | 151245 | 1512454.00 | | | 1.139 | 5.000 |
| 220 | | 1 | 5.60 | | | 27.808 | |

| Mass | RSD% (Flag) |
|---|---|
| 9 | |
| 24 | |
| 25 | |
| 26 | |
| 59 | |
| 113 | |
| 115 | |
| 206 | |
| 207 | |
| 208 | |
| 220 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 9 | 33985 | 33739 | 33573 | 33481 | 33626 |
| 24 | 319455 | 319239 | 318551 | 315819 | 316277 |
| 25 | 43132 | 42889 | 42923 | 42709 | 42689 |
| 26 | 48036 | 47949 | 48043 | 47636 | 47779 |
| 59 | 186794 | 183813 | 187922 | 184624 | 185790 |
| 113 | 22279 | 22315 | 22152 | 22100 | 22137 |
| 115 | 296208 | 290284 | 292469 | 292333 | 288926 |
| 206 | 71568 | 71184 | 71292 | 70628 | 70524 |
| 207 | 61722 | 61735 | 61715 | 61554 | 61563 |
| 208 | 152775 | 151737 | 150449 | 148645 | 152622 |



2025-02-11 11:25

1100

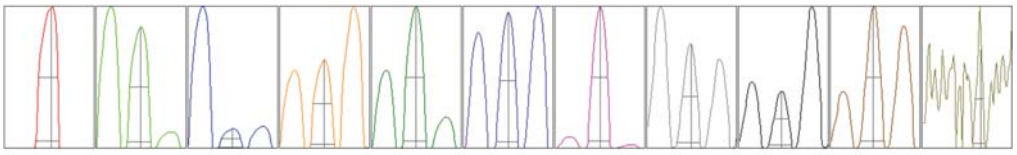
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 56451.76 | 9.10 | 8.90 - 9.10 | |
| 24 | 540315.86 | 24.00 | 23.90 - 24.10 | |
| 25 | 72844.30 | 25.00 | 24.90 - 25.10 | |
| 26 | 82942.97 | 26.00 | 25.90 - 26.10 | |
| 59 | 334772.90 | 59.00 | 58.90 - 59.10 | |
| 113 | 43756.33 | 113.05 | 112.90 - 113.10 | |
| 115 | 573082.19 | 115.05 | 114.90 - 115.10 | |
| 206 | 141412.16 | 206.00 | 205.90 - 206.10 | |
| 207 | 122171.00 | 206.95 | 206.90 - 207.10 | |
| 208 | 302103.53 | 207.95 | 207.90 - 208.10 | |
| 220 | 0.80 | 220.50 | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.63 | 0.777 | 0.900 | |
| 24 | 0.63 | 0.787 | 0.900 | |
| 25 | 0.63 | 0.792 | 0.900 | |
| 26 | 0.62 | 0.788 | 0.900 | |
| 59 | 0.59 | 0.779 | 0.900 | |
| 113 | 0.52 | 0.733 | 0.900 | |
| 115 | 0.53 | 0.734 | 0.900 | |
| 206 | 0.50 | 0.778 | 0.900 | |
| 207 | 0.50 | 0.784 | 0.900 | |
| 208 | 0.50 | 0.791 | 0.900 | |
| 220 | 0.27 | 0.388 | | |

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

**Tune Parameters**

**Plasma Parameters**

Plasma Mode --- Nebulizer Gas 0.72 L/min Dilution Gas 0.40 L/min

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

# US EPA Tune Check Report

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 8.6 V | Deflect | 14.2 V |
| Extract 2 | -210.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -95 V | Cell Exit | -50 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | --- | OctP RF | 170 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 103 | Axis Gain | 0.9959 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | 0.05 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.2 mm | Torch V | 1.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.0 mV | Analog HV | 2179 V | Pulse HV | 1089 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 32890 | 328904.85 | | | 0.370 | |
| 89 | | 31748 | 317475.54 | | | 0.361 | |
| 205 | | 36794 | 367944.69 | | | 0.422 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 32961 | 32954 | 32822 | 33005 | 32711 |
| 89 | 31847 | 31724 | 31819 | 31788 | 31559 |
| 205 | 36762 | 36981 | 36899 | 36755 | 36575 |

Integration Time [sec] 0.1

**Tune Parameters**

**Plasma Parameters**

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 8.6 V | Deflect | 3.4 V |

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

# US EPA Tune Check Report

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -210.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -95 V | Cell Exit | -70 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | --- | OctP RF | 200 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 103 | Axis Gain | 0.9959 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | 0.05 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.2 mm | Torch V | 1.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.0 mV | Analog HV | 2179 V | Pulse HV | 1089 V |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.14 | 0.23 | -0.08 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | 0.02 | -0.04 | 0.02 | 0.00 | N/A | ppb |
| Barium | 135-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | -0.01 | 0.03 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | 0.12 | -0.12 | 0.00 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | 0.01 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Calcium | 43-1 | 0.00 | -0.68 | 0.67 | 0.00 | N/A | ppb |
| Calcium | 44-1 | 0.40 | -0.35 | -0.06 | 0.00 | N/A | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.01 | 0.02 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Copper | 63-2 | 0.03 | 0.00 | -0.03 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 0.18 | 0.30 | -0.48 | 0.00 | N/A | ppb |
| Iron | 56-2 | -0.04 | 0.03 | 0.02 | 0.00 | N/A | ppb |
| Iron | 57-2 | -0.11 | -0.17 | 0.28 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.00 | 0.00 | 0.01 | 0.00 | N/A | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.00 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 0.11 | -0.84 | 0.73 | 0.00 | N/A | ppb |
| Manganese | 55-2 | -0.02 | 0.00 | 0.02 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | 0.02 | -0.02 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -17.01 | -7.69 | -9.67 | -11.46 | | ppb |
| Potassium | 39-2 | 1.78 | -0.99 | -0.80 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | -0.17 | 0.02 | 0.14 | 0.00 | N/A | ppb |
| Selenium | 77-2 | -0.31 | 0.62 | -0.31 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.00 | -0.27 | 0.27 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -0.05 | -0.21 | 0.26 | 0.00 | N/A | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sodium | 23-2 | 1.79 | 0.33 | -2.12 | 0.00 | N/A | ppb |
| Strontium | 86-1 | -0.01 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -105.34 | -141.26 | -119.61 | -122.07 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Tin | 118-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Titanium | 47-1 | 0.00 | -0.04 | 0.04 | 0.00 | N/A | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 0.08 | -0.02 | -0.06 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 18.64 | 19.93 | 18.09 | 18.89 | 5.00 | ppb |
| Antimony | 121-1 | 2.17 | 2.14 | 2.19 | 2.17 | 1.14 | ppb |
| Arsenic | 75-2 | 0.98 | 1.11 | 1.02 | 1.03 | 6.60 | ppb |
| Barium | 135-1 | 10.54 | 10.63 | 10.85 | 10.67 | 1.48 | ppb |
| Barium | 137-1 | 10.83 | 10.59 | 10.85 | 10.76 | 1.37 | ppb |
| Beryllium | 9-1 | 1.09 | 1.06 | 1.07 | 1.07 | 1.22 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.01 | 1.14 | 1.06 | 1.07 | 6.11 | ppb |
| Cadmium | 106-1 | 0.96 | -0.37 | 0.84 | 0.47 | 154.54 | ppb |
| Cadmium | 111-1 | 1.12 | 1.02 | 1.13 | 1.09 | 5.37 | ppb |
| Calcium | 43-1 | 551.26 | 561.62 | 558.94 | 557.27 | 0.96 | ppb |
| Calcium | 44-1 | 546.24 | 556.45 | 548.15 | 550.28 | 0.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.08 | 2.10 | 2.04 | 2.07 | 1.49 | ppb |
| Cobalt | 59-2 | 1.12 | 1.12 | 1.16 | 1.14 | 2.10 | ppb |
| Copper | 63-2 | 2.23 | 2.24 | 2.29 | 2.25 | 1.45 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 56.02 | 57.30 | 56.90 | 56.74 | 1.16 | ppb |
| Iron | 56-2 | 55.85 | 55.21 | 55.19 | 55.42 | 0.68 | ppb |
| Iron | 57-2 | 55.31 | 56.12 | 53.32 | 54.91 | 2.62 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.97 | 1.00 | 1.00 | 0.99 | 1.70 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.98 | 0.99 | 0.99 | 0.99 | 0.55 | ppb |
| Lead | 208-1 | 0.99 | 1.00 | 1.00 | 1.00 | 0.42 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 534.80 | 533.80 | 538.70 | 535.77 | 0.48 | ppb |
| Manganese | 55-2 | 1.07 | 1.00 | 1.05 | 1.04 | 3.70 | ppb |
| Molybdenum | 94-1 | 6.24 | 6.28 | 6.16 | 6.23 | 0.96 | ppb |
| Molybdenum | 95-1 | 5.20 | 5.16 | 5.14 | 5.17 | 0.64 | ppb |
| Molybdenum | 96-1 | 5.31 | 5.40 | 5.25 | 5.32 | 1.39 | ppb |
| Molybdenum | 97-1 | 5.31 | 5.25 | 5.27 | 5.28 | 0.59 | ppb |
| Molybdenum | 98-1 | 5.16 | 5.21 | 5.16 | 5.18 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.06 | 1.10 | 1.10 | 1.09 | 2.20 | ppb |
| Phosphorus | 31-2 | 5.65 | 6.05 | 22.68 | 11.46 | 84.83 | ppb |
| Potassium | 39-2 | 515.69 | 505.55 | 514.61 | 511.95 | 1.09 | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 5.95 | 5.86 | 5.26 | 5.69 | 6.55 | ppb |
| Selenium | 77-2 | 6.10 | 3.39 | 5.09 | 4.86 | 28.26 | ppb |
| Selenium | 78-2 | 4.02 | 5.68 | 6.05 | 5.25 | 20.61 | ppb |
| Silicon | 28-1 | 6.57 | 6.39 | 6.16 | 6.38 | 3.21 | ppb |
| Silver | 107-1 | 1.03 | 1.05 | 1.07 | 1.05 | 1.92 | ppb |
| Silver | 109-1 | 1.06 | 1.05 | 1.09 | 1.07 | 1.91 | ppb |
| Sodium | 23-2 | 545.49 | 534.97 | 545.32 | 541.93 | 1.11 | ppb |
| Strontium | 86-1 | 1.07 | 1.03 | 1.02 | 1.04 | 2.69 | ppb |
| Strontium | 88-1 | 1.06 | 1.05 | 1.05 | 1.05 | 0.59 | ppb |
| Sulfur | 34-1 | 110.19 | 141.26 | 114.77 | 122.07 | 13.74 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 1.02 | 1.04 | 1.00 | 1.02 | 2.36 | ppb |
| Thallium | 205-1 | 1.02 | 1.04 | 1.03 | 1.03 | 0.78 | ppb |
| Tin | 118-1 | 5.37 | 5.38 | 5.47 | 5.41 | 1.03 | ppb |
| Titanium | 47-1 | 5.32 | 5.23 | 5.32 | 5.29 | 0.91 | ppb |
| Uranium | 238-1 | 0.96 | 0.96 | 0.97 | 0.97 | 0.71 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5.34 | 5.20 | 5.32 | 5.29 | 1.41 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 5.79 | 5.48 | 5.89 | 5.72 | 3.76 | ppb |
| Zirconium | 90-1 | 1.03 | 1.02 | 1.03 | 1.03 | 0.70 | ppb |
| Zirconium | 91-1 | 1.02 | 1.02 | 0.98 | 1.01 | 2.24 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1000.11 | 1004.42 | 1004.44 | 1002.99 | 0.25 | ppb |
| Antimony | 121-1 | 50.05 | 50.52 | 51.51 | 50.70 | 1.47 | ppb |
| Arsenic | 75-2 | 50.55 | 51.41 | 51.85 | 51.27 | 1.28 | ppb |
| Barium | 135-1 | 249.33 | 251.94 | 255.10 | 252.12 | 1.15 | ppb |
| Barium | 137-1 | 253.97 | 258.84 | 258.70 | 257.17 | 1.08 | ppb |
| Beryllium | 9-1 | 50.34 | 52.78 | 51.01 | 51.38 | 2.46 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 51.10 | 53.11 | 53.32 | 52.51 | 2.34 | ppb |
| Cadmium | 106-1 | 52.75 | 52.71 | 54.41 | 53.29 | 1.81 | ppb |
| Cadmium | 111-1 | 51.10 | 52.31 | 52.78 | 52.06 | 1.67 | ppb |
| Calcium | 43-1 | 5157.25 | 5231.17 | 5324.44 | 5237.62 | 1.60 | ppb |
| Calcium | 44-1 | 5175.53 | 5200.27 | 5337.31 | 5237.70 | 1.66 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 50.15 | 50.53 | 50.90 | 50.53 | 0.74 | ppb |
| Cobalt | 59-2 | 52.32 | 53.14 | 52.76 | 52.74 | 0.78 | ppb |
| Copper | 63-2 | 543.79 | 553.81 | 552.39 | 550.00 | 0.99 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 2686.28 | 2687.32 | 2715.83 | 2696.48 | 0.62 | ppb |
| Iron | 56-2 | 2668.67 | 2710.60 | 2683.97 | 2687.74 | 0.79 | ppb |
| Iron | 57-2 | 2640.37 | 2665.37 | 2654.10 | 2653.28 | 0.47 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 252.95 | 259.35 | 257.13 | 256.48 | 1.27 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 255.35 | 255.37 | 250.43 | 253.71 | 1.12 | ppb |
| Lead | 208-1 | 249.78 | 254.64 | 252.51 | 252.31 | 0.96 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 5263.02 | 5363.97 | 5411.07 | 5346.02 | 1.41 | ppb |
| Manganese | 55-2 | 511.92 | 514.75 | 516.49 | 514.38 | 0.45 | ppb |
| Molybdenum | 94-1 | 490.82 | 518.46 | 503.81 | 504.36 | 2.74 | ppb |
| Molybdenum | 95-1 | 497.38 | 510.59 | 500.51 | 502.82 | 1.37 | ppb |
| Molybdenum | 96-1 | 498.69 | 508.80 | 511.03 | 506.17 | 1.30 | ppb |
| Molybdenum | 97-1 | 500.99 | 517.68 | 513.70 | 510.79 | 1.71 | ppb |
| Molybdenum | 98-1 | 490.85 | 507.33 | 509.14 | 502.44 | 2.01 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 51.99 | 52.78 | 52.47 | 52.41 | 0.76 | ppb |
| Phosphorus | 31-2 | 924.57 | 1041.83 | 982.10 | 982.83 | 5.97 | ppb |
| Potassium | 39-2 | 2492.98 | 2521.59 | 2533.38 | 2515.99 | 0.83 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 49.15 | 52.40 | 52.51 | 51.35 | 3.72 | ppb |
| Selenium | 77-2 | 48.28 | 57.51 | 53.46 | 53.08 | 8.71 | ppb |
| Selenium | 78-2 | 52.26 | 57.78 | 51.38 | 53.81 | 6.44 | ppb |
| Silicon | 28-1 | 50.54 | 50.81 | 51.89 | 51.08 | 1.40 | ppb |
| Silver | 107-1 | 51.25 | 52.03 | 52.75 | 52.01 | 1.44 | ppb |
| Silver | 109-1 | 51.07 | 52.72 | 52.65 | 52.15 | 1.79 | ppb |
| Sodium | 23-2 | 5285.78 | 5437.97 | 5462.77 | 5395.51 | 1.78 | ppb |
| Strontium | 86-1 | 49.44 | 50.44 | 50.47 | 50.12 | 1.17 | ppb |
| Strontium | 88-1 | 50.19 | 51.44 | 51.42 | 51.02 | 1.40 | ppb |
| Sulfur | 34-1 | 1170.00 | 1116.80 | 1271.62 | 1186.14 | 6.63 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 48.36 | 49.42 | 49.51 | 49.10 | 1.31 | ppb |
| Thallium | 205-1 | 50.09 | 50.02 | 51.25 | 50.45 | 1.37 | ppb |
| Tin | 118-1 | 50.13 | 51.51 | 51.82 | 51.15 | 1.76 | ppb |
| Titanium | 47-1 | 505.16 | 509.07 | 523.08 | 512.44 | 1.84 | ppb |
| Uranium | 238-1 | 49.90 | 49.24 | 49.53 | 49.55 | 0.66 | ppb |



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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 50.89 | 51.04 | 50.36 | 50.77 | 0.70 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 525.46 | 528.11 | 534.71 | 529.43 | 0.90 | ppb |
| Zirconium | 90-1 | 49.85 | 51.84 | 51.31 | 51.00 | 2.02 | ppb |
| Zirconium | 91-1 | 47.83 | 50.25 | 49.83 | 49.30 | 2.63 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2452.01 | 2482.76 | 2445.74 | 2460.17 | 0.81 | ppb |
| Antimony | 121-1 | 128.58 | 129.34 | 129.06 | 128.99 | 0.30 | ppb |
| Arsenic | 75-2 | 125.33 | 125.43 | 125.25 | 125.34 | 0.07 | ppb |
| Barium | 135-1 | 641.19 | 649.16 | 660.22 | 650.19 | 1.47 | ppb |
| Barium | 137-1 | 626.80 | 656.04 | 638.83 | 640.56 | 2.29 | ppb |
| Beryllium | 9-1 | 123.17 | 125.60 | 128.38 | 125.72 | 2.07 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 130.89 | 132.33 | 130.70 | 131.31 | 0.68 | ppb |
| Cadmium | 106-1 | 128.74 | 129.94 | 131.91 | 130.20 | 1.23 | ppb |
| Cadmium | 111-1 | 125.87 | 129.90 | 129.30 | 128.36 | 1.69 | ppb |
| Calcium | 43-1 | 12871.82 | 12875.29 | 13098.45 | 12948.52 | 1.00 | ppb |
| Calcium | 44-1 | 12892.34 | 12882.67 | 12877.75 | 12884.25 | 0.06 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 123.46 | 124.13 | 123.04 | 123.54 | 0.45 | ppb |
| Cobalt | 59-2 | 127.17 | 128.71 | 126.21 | 127.36 | 0.99 | ppb |
| Copper | 63-2 | 1313.74 | 1320.59 | 1292.85 | 1309.06 | 1.10 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 6528.84 | 6646.90 | 6518.82 | 6564.85 | 1.09 | ppb |
| Iron | 56-2 | 6543.12 | 6597.46 | 6486.57 | 6542.38 | 0.85 | ppb |
| Iron | 57-2 | 6446.64 | 6535.56 | 6462.37 | 6481.52 | 0.73 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 613.17 | 618.22 | 626.85 | 619.41 | 1.12 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 619.82 | 617.05 | 631.68 | 622.85 | 1.25 | ppb |
| Lead | 208-1 | 619.77 | 621.16 | 630.11 | 623.68 | 0.90 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 12857.97 | 13045.94 | 12972.29 | 12958.73 | 0.73 | ppb |
| Manganese | 55-2 | 1291.88 | 1310.64 | 1264.34 | 1288.95 | 1.81 | ppb |
| Molybdenum | 94-1 | 1232.34 | 1235.58 | 1234.14 | 1234.02 | 0.13 | ppb |
| Molybdenum | 95-1 | 1243.85 | 1262.15 | 1239.62 | 1248.54 | 0.96 | ppb |
| Molybdenum | 96-1 | 1246.51 | 1254.70 | 1239.64 | 1246.95 | 0.60 | ppb |
| Molybdenum | 97-1 | 1243.74 | 1262.09 | 1234.07 | 1246.64 | 1.14 | ppb |
| Molybdenum | 98-1 | 1239.97 | 1249.14 | 1254.15 | 1247.75 | 0.58 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 126.80 | 128.56 | 126.45 | 127.27 | 0.89 | ppb |
| Phosphorus | 31-2 | 2503.53 | 2512.45 | 2525.00 | 2513.66 | 0.43 | ppb |
| Potassium | 39-2 | 6140.98 | 6162.98 | 6087.62 | 6130.53 | 0.63 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 125.09 | 125.91 | 125.72 | 125.57 | 0.34 | ppb |
| Selenium | 77-2 | 129.50 | 127.73 | 134.38 | 130.54 | 2.64 | ppb |
| Selenium | 78-2 | 125.80 | 135.58 | 131.56 | 130.98 | 3.75 | ppb |
| Silicon | 28-1 | 130.02 | 126.49 | 129.88 | 128.80 | 1.55 | ppb |
| Silver | 107-1 | 131.64 | 132.04 | 132.67 | 132.12 | 0.40 | ppb |
| Silver | 109-1 | 130.81 | 133.38 | 133.16 | 132.45 | 1.07 | ppb |
| Sodium | 23-2 | 13002.08 | 13021.11 | 13001.39 | 13008.19 | 0.09 | ppb |
| Strontium | 86-1 | 121.73 | 124.39 | 124.03 | 123.38 | 1.17 | ppb |
| Strontium | 88-1 | 123.43 | 126.02 | 126.02 | 125.16 | 1.20 | ppb |
| Sulfur | 34-1 | 2686.04 | 3018.98 | 2653.91 | 2786.31 | 7.25 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 123.82 | 126.09 | 126.81 | 125.58 | 1.24 | ppb |
| Thallium | 205-1 | 125.69 | 125.07 | 125.48 | 125.41 | 0.25 | ppb |
| Tin | 118-1 | 129.34 | 128.92 | 128.73 | 128.99 | 0.24 | ppb |
| Titanium | 47-1 | 1258.34 | 1262.23 | 1279.41 | 1266.66 | 0.88 | ppb |
| Uranium | 238-1 | 121.27 | 122.79 | 124.29 | 122.78 | 1.23 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 123.67 | 124.14 | 124.24 | 124.02 | 0.25 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 1273.20 | 1291.67 | 1277.77 | 1280.88 | 0.75 | ppb |
| Zirconium | 90-1 | 124.42 | 127.43 | 124.78 | 125.54 | 1.31 | ppb |
| Zirconium | 91-1 | 120.11 | 122.39 | 120.86 | 121.12 | 0.96 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4976.89 | 5023.54 | 4827.55 | 4942.66 | 2.07 | ppb |
| Antimony | 121-1 | 248.56 | 257.69 | 256.15 | 254.13 | 1.92 | ppb |
| Arsenic | 75-2 | 253.94 | 265.65 | 243.51 | 254.37 | 4.35 | ppb |
| Barium | 135-1 | 1243.70 | 1289.50 | 1278.45 | 1270.55 | 1.88 | ppb |
| Barium | 137-1 | 1227.65 | 1290.54 | 1271.61 | 1263.27 | 2.55 | ppb |
| Beryllium | 9-1 | 246.82 | 254.51 | 258.76 | 253.37 | 2.39 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 250.61 | 265.10 | 255.70 | 257.13 | 2.86 | ppb |
| Cadmium | 106-1 | 248.19 | 261.43 | 255.69 | 255.10 | 2.60 | ppb |
| Cadmium | 111-1 | 244.72 | 257.77 | 253.71 | 252.06 | 2.65 | ppb |
| Calcium | 43-1 | 25182.11 | 26272.37 | 26140.66 | 25865.05 | 2.30 | ppb |
| Calcium | 44-1 | 24569.66 | 25761.95 | 25713.26 | 25348.29 | 2.66 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 243.84 | 248.96 | 238.22 | 243.67 | 2.20 | ppb |
| Cobalt | 59-2 | 259.44 | 261.13 | 251.08 | 257.22 | 2.09 | ppb |
| Copper | 63-2 | 2591.07 | 2685.56 | 2541.84 | 2606.16 | 2.80 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 13441.49 | 13415.10 | 13010.04 | 13288.87 | 1.82 | ppb |
| Iron | 56-2 | 12987.00 | 13323.70 | 12647.90 | 12986.20 | 2.60 | ppb |
| Iron | 57-2 | 12736.75 | 13075.28 | 12563.14 | 12791.72 | 2.04 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1214.61 | 1246.17 | 1263.09 | 1241.29 | 1.98 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1195.71 | 1241.10 | 1251.17 | 1229.33 | 2.40 | ppb |
| Lead | 208-1 | 1200.16 | 1246.56 | 1254.84 | 1233.85 | 2.39 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 26315.73 | 26400.75 | 25122.30 | 25946.26 | 2.76 | ppb |
| Manganese | 55-2 | 2554.89 | 2593.99 | 2514.85 | 2554.58 | 1.55 | ppb |
| Molybdenum | 94-1 | 2415.32 | 2515.21 | 2513.45 | 2481.33 | 2.30 | ppb |
| Molybdenum | 95-1 | 2427.42 | 2527.43 | 2507.75 | 2487.54 | 2.13 | ppb |
| Molybdenum | 96-1 | 2426.05 | 2540.19 | 2521.78 | 2496.01 | 2.46 | ppb |
| Molybdenum | 97-1 | 2423.84 | 2506.70 | 2540.83 | 2490.46 | 2.42 | ppb |
| Molybdenum | 98-1 | 2419.32 | 2535.62 | 2548.04 | 2500.99 | 2.84 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 250.16 | 256.81 | 244.69 | 250.55 | 2.42 | ppb |
| Phosphorus | 31-2 | 4992.78 | 5158.69 | 4782.24 | 4977.90 | 3.79 | ppb |
| Potassium | 39-2 | 12508.10 | 12857.28 | 12240.38 | 12535.25 | 2.47 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 245.18 | 262.84 | 257.09 | 255.04 | 3.53 | ppb |
| Selenium | 77-2 | 278.17 | 287.32 | 227.61 | 264.37 | 12.16 | ppb |
| Selenium | 78-2 | 262.02 | 265.48 | 258.24 | 261.91 | 1.38 | ppb |
| Silicon | 28-1 | 245.83 | 252.27 | 260.94 | 253.01 | 3.00 | ppb |
| Silver | 107-1 | 255.07 | 266.16 | 260.96 | 260.73 | 2.13 | ppb |
| Silver | 109-1 | 252.96 | 263.78 | 259.59 | 258.78 | 2.11 | ppb |
| Sodium | 23-2 | 26488.44 | 26881.63 | 25428.29 | 26266.12 | 2.86 | ppb |
| Strontium | 86-1 | 238.03 | 247.47 | 250.86 | 245.45 | 2.71 | ppb |
| Strontium | 88-1 | 244.86 | 253.91 | 253.49 | 250.75 | 2.04 | ppb |
| Sulfur | 34-1 | 4706.98 | 5102.59 | 5344.96 | 5051.51 | 6.38 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 247.15 | 257.06 | 256.88 | 253.69 | 2.24 | ppb |
| Thallium | 205-1 | 240.95 | 249.27 | 249.56 | 246.59 | 1.98 | ppb |
| Tin | 118-1 | 251.39 | 256.84 | 258.22 | 255.48 | 1.41 | ppb |
| Titanium | 47-1 | 2434.28 | 2489.18 | 2460.55 | 2461.34 | 1.12 | ppb |
| Uranium | 238-1 | 237.15 | 246.29 | 244.06 | 242.50 | 1.96 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 248.07 | 252.56 | 239.59 | 246.74 | 2.67 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 2535.77 | 2590.85 | 2477.30 | 2534.64 | 2.24 | ppb |
| Zirconium | 90-1 | 244.22 | 254.34 | 253.44 | 250.67 | 2.23 | ppb |
| Zirconium | 91-1 | 244.60 | 251.55 | 255.77 | 250.64 | 2.25 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9883.79 | 9794.63 | 9810.11 | 9829.51 | 0.48 | ppb |
| Antimony | 121-1 | 499.07 | 505.10 | 506.78 | 503.65 | 0.81 | ppb |
| Arsenic | 75-2 | 500.30 | 517.61 | 512.43 | 510.11 | 1.74 | ppb |
| Barium | 135-1 | 2513.58 | 2523.15 | 2511.77 | 2516.17 | 0.24 | ppb |
| Barium | 137-1 | 2516.93 | 2489.70 | 2498.67 | 2501.77 | 0.55 | ppb |
| Beryllium | 9-1 | 507.98 | 500.56 | 508.66 | 505.73 | 0.89 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 503.90 | 500.35 | 508.18 | 504.14 | 0.78 | ppb |
| Cadmium | 106-1 | 503.93 | 506.41 | 501.56 | 503.97 | 0.48 | ppb |
| Cadmium | 111-1 | 500.58 | 522.01 | 500.92 | 507.83 | 2.42 | ppb |
| Calcium | 43-1 | 51417.80 | 54154.09 | 52864.28 | 52812.05 | 2.59 | ppb |
| Calcium | 44-1 | 51209.24 | 52209.30 | 52725.49 | 52048.01 | 1.48 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 517.83 | 503.85 | 497.25 | 506.31 | 2.08 | ppb |
| Cobalt | 59-2 | 516.27 | 512.29 | 518.08 | 515.54 | 0.57 | ppb |
| Copper | 63-2 | 5166.74 | 5101.16 | 5090.98 | 5119.63 | 0.80 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 27081.10 | 26348.20 | 26408.56 | 26612.62 | 1.53 | ppb |
| Iron | 56-2 | 26194.12 | 26000.63 | 25630.57 | 25941.77 | 1.10 | ppb |
| Iron | 57-2 | 26721.47 | 26878.62 | 26460.78 | 26686.96 | 0.79 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2503.78 | 2568.80 | 2520.62 | 2531.07 | 1.33 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2502.93 | 2541.56 | 2498.81 | 2514.43 | 0.94 | ppb |
| Lead | 208-1 | 2500.96 | 2542.70 | 2503.06 | 2515.58 | 0.93 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 51355.01 | 50925.34 | 51245.92 | 51175.42 | 0.44 | ppb |
| Manganese | 55-2 | 5131.32 | 5058.12 | 4965.43 | 5051.62 | 1.65 | ppb |
| Molybdenum | 94-1 | 4985.02 | 5068.08 | 5029.78 | 5027.63 | 0.83 | ppb |
| Molybdenum | 95-1 | 4947.27 | 5041.60 | 5049.20 | 5012.69 | 1.13 | ppb |
| Molybdenum | 96-1 | 4937.70 | 5019.56 | 5069.65 | 5008.97 | 1.33 | ppb |
| Molybdenum | 97-1 | 4938.52 | 5016.56 | 4982.99 | 4979.36 | 0.79 | ppb |
| Molybdenum | 98-1 | 5018.96 | 5069.36 | 4993.18 | 5027.17 | 0.77 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 495.33 | 495.81 | 492.42 | 494.52 | 0.37 | ppb |
| Phosphorus | 31-2 | 10353.82 | 10324.76 | 10295.48 | 10324.69 | 0.28 | ppb |
| Potassium | 39-2 | 25511.32 | 24922.23 | 25085.69 | 25173.08 | 1.21 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 494.54 | 511.98 | 495.99 | 500.84 | 1.93 | ppb |
| Selenium | 77-2 | 509.92 | 516.16 | 513.18 | 513.09 | 0.61 | ppb |
| Selenium | 78-2 | 499.41 | 495.24 | 515.83 | 503.49 | 2.16 | ppb |
| Silicon | 28-1 | 494.84 | 525.63 | 517.24 | 512.57 | 3.11 | ppb |
| Silver | 107-1 | 501.21 | 507.30 | 511.39 | 506.63 | 1.01 | ppb |
| Silver | 109-1 | 498.69 | 509.69 | 507.75 | 505.38 | 1.16 | ppb |
| Sodium | 23-2 | 53437.00 | 52517.32 | 52924.99 | 52959.77 | 0.87 | ppb |
| Strontium | 86-1 | 497.27 | 512.31 | 505.14 | 504.91 | 1.49 | ppb |
| Strontium | 88-1 | 492.20 | 501.31 | 500.62 | 498.04 | 1.02 | ppb |
| Sulfur | 34-1 | 9939.85 | 10748.57 | 10209.22 | 10299.22 | 4.00 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 495.69 | 512.45 | 507.89 | 505.34 | 1.72 | ppb |
| Thallium | 205-1 | 493.47 | 515.22 | 504.54 | 504.41 | 2.16 | ppb |
| Tin | 118-1 | 496.15 | 501.81 | 499.13 | 499.03 | 0.57 | ppb |
| Titanium | 47-1 | 4998.97 | 5118.22 | 5058.09 | 5058.43 | 1.18 | ppb |
| Uranium | 238-1 | 488.89 | 506.71 | 489.88 | 495.16 | 2.02 | ppb |



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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 504.97 | 495.01 | 493.54 | 497.84 | 1.25 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 5185.91 | 5191.04 | 5191.76 | 5189.57 | 0.06 | ppb |
| Zirconium | 90-1 | 497.78 | 506.39 | 514.90 | 506.36 | 1.69 | ppb |
| Zirconium | 91-1 | 493.87 | 503.72 | 516.94 | 504.84 | 2.29 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20040.16 | 20199.80 | 19592.17 | 19944.05 | 1.58 | ppb |
| Antimony | 121-1 | 996.63 | 997.03 | 996.16 | 996.61 | 0.04 | ppb |
| Arsenic | 75-2 | 981.78 | 1007.52 | 991.94 | 993.75 | 1.30 | ppb |
| Barium | 135-1 | 4996.89 | 4957.10 | 4996.59 | 4983.52 | 0.46 | ppb |
| Barium | 137-1 | 5059.63 | 4975.99 | 4944.87 | 4993.49 | 1.19 | ppb |
| Beryllium | 9-1 | 998.40 | 992.81 | 997.19 | 996.13 | 0.29 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 992.14 | 1002.25 | 991.31 | 995.23 | 0.61 | ppb |
| Cadmium | 106-1 | 996.24 | 1002.23 | 989.31 | 995.93 | 0.65 | ppb |
| Cadmium | 111-1 | 995.79 | 994.87 | 994.47 | 995.04 | 0.07 | ppb |
| Calcium | 43-1 | 102320.07 | 105137.98 | 101269.39 | 102909.15 | 1.94 | ppb |
| Calcium | 44-1 | 102047.33 | 103629.06 | 101377.68 | 102351.36 | 1.13 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1004.68 | 996.88 | 994.19 | 998.58 | 0.55 | ppb |
| Cobalt | 59-2 | 994.35 | 980.75 | 994.88 | 989.99 | 0.81 | ppb |
| Copper | 63-2 | 9997.46 | 9861.91 | 9851.93 | 9903.77 | 0.82 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 51723.88 | 51963.26 | 51592.29 | 51759.81 | 0.36 | ppb |
| Iron | 56-2 | 50852.48 | 50551.90 | 50656.01 | 50686.80 | 0.30 | ppb |
| Iron | 57-2 | 51801.28 | 51429.18 | 52683.53 | 51971.33 | 1.24 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4993.66 | 4951.94 | 5015.45 | 4987.02 | 0.65 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5034.46 | 4955.81 | 5003.84 | 4998.03 | 0.79 | ppb |
| Lead | 208-1 | 5012.52 | 4963.14 | 5013.24 | 4996.30 | 0.57 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 100216.27 | 99523.94 | 100694.75 | 100144.98 | 0.59 | ppb |
| Manganese | 55-2 | 9980.64 | 9916.80 | 9967.43 | 9954.96 | 0.34 | ppb |
| Molybdenum | 94-1 | 9832.46 | 10076.92 | 10068.52 | 9992.63 | 1.39 | ppb |
| Molybdenum | 95-1 | 9832.32 | 10057.16 | 10100.96 | 9996.81 | 1.44 | ppb |
| Molybdenum | 96-1 | 9778.17 | 10042.93 | 10168.66 | 9996.59 | 1.99 | ppb |
| Molybdenum | 97-1 | 9824.77 | 10061.13 | 10151.87 | 10012.59 | 1.69 | ppb |
| Molybdenum | 98-1 | 9864.05 | 10064.97 | 10029.97 | 9986.33 | 1.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1013.46 | 1002.59 | 990.55 | 1002.20 | 1.14 | ppb |
| Phosphorus | 31-2 | 19938.05 | 19957.51 | 19631.43 | 19842.33 | 0.92 | ppb |
| Potassium | 39-2 | 48504.25 | 48818.05 | 47980.99 | 48434.43 | 0.87 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 92 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 981.40 | 1007.40 | 1005.74 | 998.18 | 1.46 | ppb |
| Selenium | 77-2 | 1008.55 | 962.83 | 995.68 | 989.02 | 2.38 | ppb |
| Selenium | 78-2 | 982.07 | 996.32 | 1004.62 | 994.34 | 1.15 | ppb |
| Silicon | 28-1 | 984.63 | 1009.92 | 982.86 | 992.47 | 1.53 | ppb |
| Silver | 107-1 | 1000.56 | 990.85 | 987.62 | 993.01 | 0.68 | ppb |
| Silver | 109-1 | 989.94 | 1003.64 | 988.66 | 994.08 | 0.84 | ppb |
| Sodium | 23-2 | 103396.66 | 103579.29 | 103325.04 | 103433.66 | 0.13 | ppb |
| Strontium | 86-1 | 999.26 | 997.18 | 1000.20 | 998.88 | 0.15 | ppb |
| Strontium | 88-1 | 995.67 | 1007.02 | 999.48 | 1000.72 | 0.58 | ppb |
| Sulfur | 34-1 | 19857.95 | 20140.36 | 19378.96 | 19792.42 | 1.94 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 999.10 | 987.27 | 1002.77 | 996.38 | 0.81 | ppb |
| Thallium | 205-1 | 993.21 | 996.06 | 1006.44 | 998.57 | 0.70 | ppb |
| Tin | 118-1 | 996.36 | 1006.89 | 992.42 | 998.56 | 0.75 | ppb |
| Titanium | 47-1 | 10020.64 | 10077.57 | 9835.04 | 9977.75 | 1.27 | ppb |
| Uranium | 238-1 | 1000.74 | 999.94 | 1013.11 | 1004.59 | 0.74 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1008.13 | 1012.17 | 985.64 | 1001.98 | 1.43 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 99 | | % |
| Zinc | 66-2 | 9930.79 | 9952.97 | 9789.91 | 9891.22 | 0.89 | ppb |
| Zirconium | 90-1 | 987.30 | 1000.81 | 1001.50 | 996.54 | 0.80 | ppb |
| Zirconium | 91-1 | 984.69 | 996.58 | 1012.55 | 997.94 | 1.40 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 100001.44 | 99145.65 | 100949.12 | 100032.07 | 0.90 | ppb |
| Antimony | 121-1 | 0.92 | 0.88 | 0.86 | 0.89 | 3.02 | ppb |
| Arsenic | 75-2 | 0.47 | 0.57 | 0.59 | 0.54 | 12.16 | ppb |
| Barium | 135-1 | 2.03 | 2.01 | 1.93 | 1.99 | 2.45 | ppb |
| Barium | 137-1 | 2.07 | 1.98 | 1.98 | 2.01 | 2.69 | ppb |
| Beryllium | 9-1 | 0.39 | 0.32 | 0.31 | 0.34 | 12.43 | ppb |
| Bismuth | 209-1 | | | | 82 | | % |
| Bismuth | 209-2 | | | | 83 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.92 | 0.93 | 0.59 | 0.81 | 23.82 | ppb |
| Cadmium | 106-1 | 1.13 | 0.53 | 0.11 | 0.59 | 87.38 | ppb |
| Cadmium | 111-1 | 0.26 | 0.17 | 0.15 | 0.19 | 30.09 | ppb |
| Calcium | 43-1 | 496458.64 | 491689.72 | 509091.84 | 499080.07 | 1.80 | ppb |
| Calcium | 44-1 | 500231.92 | 489395.68 | 508258.84 | 499295.48 | 1.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.15 | 3.02 | 3.11 | 3.09 | 2.07 | ppb |
| Cobalt | 59-2 | 2.11 | 2.16 | 2.18 | 2.15 | 1.80 | ppb |
| Copper | 63-2 | 1.74 | 1.82 | 1.72 | 1.76 | 3.02 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 93 | | % |
| Holmium | 165-2 | | | | 94 | | % |
| Indium | 115-1 | | | | 87 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 247511.87 | 247946.59 | 252854.03 | 249437.49 | 1.19 | ppb |
| Iron | 56-2 | 249835.80 | 251502.37 | 247866.72 | 249734.97 | 0.73 | ppb |
| Iron | 57-2 | 249954.84 | 245133.83 | 253156.72 | 249415.13 | 1.62 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.10 | 1.09 | 1.05 | 1.08 | 2.31 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.11 | 1.10 | 1.02 | 1.08 | 4.63 | ppb |
| Lead | 208-1 | 1.13 | 1.10 | 1.03 | 1.08 | 4.43 | ppb |
| Lithium | 6-1 | | | | 88 | | % |
| Magnesium | 24-2 | 498044.63 | 499922.23 | 501406.70 | 499791.18 | 0.34 | ppb |
| Manganese | 55-2 | 4.48 | 4.67 | 4.71 | 4.62 | 2.69 | ppb |
| Molybdenum | 94-1 | 7.41 | 7.49 | 7.54 | 7.48 | 0.87 | ppb |
| Molybdenum | 95-1 | 5.32 | 5.20 | 5.39 | 5.30 | 1.83 | ppb |
| Molybdenum | 96-1 | 5.49 | 5.67 | 5.66 | 5.61 | 1.73 | ppb |
| Molybdenum | 97-1 | 5.24 | 5.35 | 5.31 | 5.30 | 1.05 | ppb |
| Molybdenum | 98-1 | 5.18 | 5.18 | 5.23 | 5.20 | 0.56 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.45 | 3.55 | 3.71 | 3.57 | 3.66 | ppb |
| Phosphorus | 31-2 | -3.91 | -7.46 | -15.54 | -8.97 | | ppb |
| Potassium | 39-2 | 246285.44 | 247204.60 | 257400.49 | 250296.85 | 2.46 | ppb |
| Rhodium | 103-1 | | | | 83 | | % |
| Rhodium | 103-2 | | | | 82 | | % |
| Scandium | 45-1 | | | | 92 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 0.03 | -0.12 | 0.11 | 0.01 | 1565.73 | ppb |
| Selenium | 77-2 | 2.57 | 1.64 | -0.31 | 1.30 | 112.87 | ppb |
| Selenium | 78-2 | 1.70 | 1.16 | 0.32 | 1.06 | 65.72 | ppb |
| Silicon | 28-1 | 18.54 | 16.06 | 16.86 | 17.15 | 7.37 | ppb |
| Silver | 107-1 | 0.18 | 0.18 | 0.17 | 0.18 | 2.86 | ppb |
| Silver | 109-1 | 0.20 | 0.18 | 0.16 | 0.18 | 8.87 | ppb |
| Sodium | 23-2 | 493861.44 | 497536.67 | 505413.75 | 498937.28 | 1.18 | ppb |
| Strontium | 86-1 | 3.15 | 3.04 | 3.11 | 3.10 | 1.79 | ppb |
| Strontium | 88-1 | 3.09 | 3.08 | 3.13 | 3.10 | 0.78 | ppb |
| Sulfur | 34-1 | -151.56 | -325.66 | -49.80 | -175.67 | | ppb |
| Terbium | 159-1 | | | | 92 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 0.08 | 0.09 | 0.07 | 0.08 | 7.75 | ppb |
| Thallium | 205-1 | 0.10 | 0.08 | 0.07 | 0.08 | 15.49 | ppb |
| Tin | 118-1 | 0.11 | 0.10 | 0.07 | 0.09 | 26.00 | ppb |
| Titanium | 47-1 | 1.61 | 1.72 | 1.75 | 1.69 | 4.42 | ppb |
| Uranium | 238-1 | 0.05 | 0.05 | 0.04 | 0.05 | 9.57 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.28 | 0.31 | 0.30 | 0.30 | 5.80 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 92 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 5.06 | 5.40 | 5.65 | 5.37 | 5.55 | ppb |
| Zirconium | 90-1 | 1.69 | 1.70 | 1.69 | 1.69 | 0.19 | ppb |
| Zirconium | 91-1 | 1.69 | 1.66 | 1.68 | 1.68 | 0.94 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 474.38 | 474.26 | 479.22 | 475.96 | 0.59 | ppb |
| Antimony | 121-1 | 203.39 | 205.37 | 208.33 | 205.70 | 1.21 | ppb |
| Arsenic | 75-2 | 204.81 | 205.88 | 210.12 | 206.93 | 1.36 | ppb |
| Barium | 135-1 | 99.44 | 100.04 | 101.23 | 100.24 | 0.91 | ppb |
| Barium | 137-1 | 99.75 | 101.13 | 102.64 | 101.17 | 1.43 | ppb |
| Beryllium | 9-1 | 100.05 | 103.59 | 101.43 | 101.69 | 1.76 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 130.63 | 135.70 | 136.19 | 134.17 | 2.29 | ppb |
| Cadmium | 106-1 | 79.71 | 80.20 | 82.71 | 80.87 | 1.99 | ppb |
| Cadmium | 111-1 | 103.51 | 105.21 | 105.35 | 104.69 | 0.98 | ppb |
| Calcium | 43-1 | 2228.40 | 2264.92 | 2255.92 | 2249.74 | 0.85 | ppb |
| Calcium | 44-1 | 2182.53 | 2171.05 | 2225.64 | 2193.08 | 1.31 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 101.29 | 101.03 | 101.25 | 101.19 | 0.14 | ppb |
| Cobalt | 59-2 | 105.02 | 106.03 | 105.30 | 105.45 | 0.49 | ppb |
| Copper | 63-2 | 106.08 | 107.80 | 107.31 | 107.06 | 0.83 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 2115.83 | 2152.87 | 2133.01 | 2133.90 | 0.87 | ppb |
| Iron | 56-2 | 2084.94 | 2069.91 | 2056.00 | 2070.28 | 0.70 | ppb |
| Iron | 57-2 | 2071.76 | 2042.39 | 2063.45 | 2059.20 | 0.74 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 207.14 | 205.46 | 203.00 | 205.20 | 1.01 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 192.93 | 197.39 | 195.74 | 195.35 | 1.15 | ppb |
| Lead | 208-1 | 197.10 | 199.05 | 197.91 | 198.02 | 0.50 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 1145.83 | 1144.18 | 1153.22 | 1147.74 | 0.42 | ppb |
| Manganese | 55-2 | 98.59 | 101.58 | 99.41 | 99.86 | 1.55 | ppb |
| Molybdenum | 94-1 | 3842.15 | 3894.58 | 3854.33 | 3863.69 | 0.71 | ppb |
| Molybdenum | 95-1 | 4712.46 | 4804.91 | 4737.07 | 4751.48 | 1.01 | ppb |
| Molybdenum | 96-1 | 4640.67 | 4669.45 | 4688.96 | 4666.36 | 0.52 | ppb |
| Molybdenum | 97-1 | 4648.16 | 4742.05 | 4780.20 | 4723.47 | 1.44 | ppb |
| Molybdenum | 98-1 | 4655.45 | 4808.26 | 4725.23 | 4729.64 | 1.62 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 104.55 | 106.57 | 104.77 | 105.29 | 1.05 | ppb |
| Phosphorus | 31-2 | -9.47 | -16.25 | -11.58 | -12.44 | | ppb |
| Potassium | 39-2 | 1902.58 | 1911.28 | 1905.26 | 1906.37 | 0.23 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 206.07 | 211.41 | 213.32 | 210.27 | 1.79 | ppb |
| Selenium | 77-2 | 202.75 | 241.20 | 235.75 | 226.57 | 9.18 | ppb |
| Selenium | 78-2 | 219.67 | 213.51 | 224.26 | 219.15 | 2.46 | ppb |
| Silicon | 28-1 | 1.21 | 1.33 | 1.70 | 1.41 | 18.19 | ppb |
| Silver | 107-1 | 47.78 | 49.27 | 49.02 | 48.69 | 1.64 | ppb |
| Silver | 109-1 | 48.15 | 49.05 | 49.75 | 48.98 | 1.63 | ppb |
| Sodium | 23-2 | 2042.96 | 2019.09 | 2032.96 | 2031.67 | 0.59 | ppb |
| Strontium | 86-1 | 522.12 | 526.86 | 536.76 | 528.58 | 1.41 | ppb |
| Strontium | 88-1 | 514.76 | 523.90 | 526.72 | 521.79 | 1.20 | ppb |
| Sulfur | 34-1 | -30.06 | 2.37 | 20.86 | -2.28 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 205.48 | 201.73 | 200.40 | 202.54 | 1.30 | ppb |
| Thallium | 205-1 | 200.43 | 199.20 | 199.02 | 199.55 | 0.38 | ppb |
| Tin | 118-1 | 0.04 | 0.06 | 0.06 | 0.06 | 21.39 | ppb |
| Titanium | 47-1 | 0.44 | 0.44 | 0.46 | 0.45 | 3.13 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.50 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 98.19 | 99.33 | 98.44 | 98.65 | 0.61 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 199.47 | 204.25 | 200.58 | 201.43 | 1.24 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 16.21 | ppb |
| Zirconium | 91-1 | 0.12 | 0.11 | 0.14 | 0.12 | 11.20 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.97 | -0.51 | -0.04 | -0.51 | | ppb |
| Antimony | 121-1 | 0.04 | 0.03 | 0.03 | 0.03 | 17.21 | ppb |
| Arsenic | 75-2 | -0.02 | -0.03 | -0.03 | -0.02 | | ppb |
| Barium | 135-1 | 0.01 | 0.01 | 0.00 | 0.01 | 87.14 | ppb |
| Barium | 137-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.33 | ppb |
| Beryllium | 9-1 | 0.01 | 0.01 | 0.01 | 0.01 | 30.13 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.06 | 0.06 | 0.04 | 50.68 | ppb |
| Cadmium | 106-1 | -0.24 | -0.65 | -1.28 | -0.72 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.05 | -0.10 | -0.05 | | ppb |
| Calcium | 43-1 | 0.47 | -1.32 | 0.19 | -0.22 | | ppb |
| Calcium | 44-1 | -4.99 | -5.50 | -6.09 | -5.53 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | 0.01 | 0.00 | 0.00 | 313.17 | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | -0.11 | -0.16 | -0.11 | -0.13 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 0.35 | 0.31 | 0.20 | 0.29 | 26.23 | ppb |
| Iron | 56-2 | 0.03 | -0.16 | -0.05 | -0.06 | | ppb |
| Iron | 57-2 | -0.44 | -0.07 | 0.04 | -0.16 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.01 | 0.02 | 0.02 | 0.02 | 32.46 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.03 | 0.01 | 0.03 | 0.02 | 40.64 | ppb |
| Lead | 208-1 | 0.02 | 0.02 | 0.02 | 0.02 | 15.86 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | -7.24 | -6.36 | -7.31 | -6.97 | | ppb |
| Manganese | 55-2 | 0.00 | 0.02 | 0.00 | 0.01 | 162.70 | ppb |
| Molybdenum | 94-1 | 0.09 | 0.05 | 0.07 | 0.07 | 23.72 | ppb |
| Molybdenum | 95-1 | 0.10 | 0.09 | 0.07 | 0.09 | 17.36 | ppb |
| Molybdenum | 96-1 | 0.09 | 0.08 | 0.08 | 0.08 | 11.10 | ppb |
| Molybdenum | 97-1 | 0.09 | 0.08 | 0.08 | 0.08 | 6.97 | ppb |
| Molybdenum | 98-1 | 0.10 | 0.10 | 0.08 | 0.09 | 12.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.08 | -0.12 | -0.12 | -0.10 | | ppb |
| Phosphorus | 31-2 | -14.26 | -21.16 | -6.53 | -13.99 | | ppb |
| Potassium | 39-2 | -1.16 | -0.70 | -1.00 | -0.95 | | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.20 | -0.06 | 0.21 | 0.12 | 127.21 | ppb |
| Selenium | 77-2 | -0.31 | -0.31 | -0.31 | -0.31 | | ppb |
| Selenium | 78-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Silicon | 28-1 | -0.44 | -0.47 | -0.70 | -0.53 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.91 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.40 | ppb |
| Sodium | 23-2 | -5.25 | -4.47 | -6.40 | -5.37 | | ppb |
| Strontium | 86-1 | -0.02 | -0.01 | -0.03 | -0.02 | | ppb |
| Strontium | 88-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Sulfur | 34-1 | -69.67 | -118.01 | -132.30 | -106.66 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.00 | 0.00 | 55.64 | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | ppb |
| Tin | 118-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Titanium | 47-1 | -0.03 | -0.07 | -0.05 | -0.05 | | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.03 | 0.15 | 0.25 | 0.14 | 78.78 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | 0.00 | 0.01 | 0.01 | 0.01 | 83.82 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 93753.99 | 95541.18 | 93981.70 | 94425.62 | 1.03 | ppb |
| Antimony | 121-1 | 1.19 | 1.15 | 1.17 | 1.17 | 1.75 | ppb |
| Arsenic | 75-2 | 0.34 | 0.22 | 0.21 | 0.26 | 28.27 | ppb |
| Barium | 135-1 | 1.40 | 1.35 | 1.39 | 1.38 | 1.87 | ppb |
| Barium | 137-1 | 1.44 | 1.44 | 1.47 | 1.45 | 1.23 | ppb |
| Beryllium | 9-1 | 0.29 | 0.29 | 0.30 | 0.30 | 2.31 | ppb |
| Bismuth | 209-1 | | | | 92 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 19.33 | 18.14 | 18.36 | 18.61 | 3.38 | ppb |
| Cadmium | 106-1 | -2.58 | -1.61 | -2.62 | -2.27 | | ppb |
| Cadmium | 111-1 | 0.44 | 0.56 | 0.44 | 0.48 | 14.44 | ppb |
| Calcium | 43-1 | 107230.28 | 106378.29 | 108303.47 | 107304.01 | 0.90 | ppb |
| Calcium | 44-1 | 104007.83 | 104537.69 | 106853.62 | 105133.05 | 1.44 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 19.67 | 20.30 | 20.28 | 20.09 | 1.78 | ppb |
| Cobalt | 59-2 | 1.16 | 1.20 | 1.18 | 1.18 | 1.52 | ppb |
| Copper | 63-2 | 8.01 | 8.20 | 8.16 | 8.13 | 1.24 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 103355.70 | 105396.89 | 104119.06 | 104290.55 | 0.99 | ppb |
| Iron | 56-2 | 103556.33 | 105216.25 | 104118.86 | 104297.15 | 0.81 | ppb |
| Iron | 57-2 | 103931.65 | 107096.75 | 104442.56 | 105156.98 | 1.62 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4.86 | 4.80 | 4.83 | 4.83 | 0.71 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4.45 | 4.39 | 4.48 | 4.44 | 1.13 | ppb |
| Lead | 208-1 | 4.55 | 4.48 | 4.51 | 4.51 | 0.80 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 96157.04 | 98164.13 | 98421.79 | 97580.99 | 1.27 | ppb |
| Manganese | 55-2 | 7.68 | 7.67 | 7.98 | 7.78 | 2.24 | ppb |
| Molybdenum | 94-1 | 1602.24 | 1609.96 | 1640.90 | 1617.70 | 1.26 | ppb |
| Molybdenum | 95-1 | 1956.97 | 1975.72 | 2029.65 | 1987.45 | 1.90 | ppb |
| Molybdenum | 96-1 | 1947.66 | 1964.03 | 2020.11 | 1977.27 | 1.92 | ppb |
| Molybdenum | 97-1 | 2001.49 | 1984.19 | 2025.85 | 2003.84 | 1.04 | ppb |
| Molybdenum | 98-1 | 1983.79 | 1987.71 | 2032.34 | 2001.28 | 1.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 5.00 | 5.15 | 5.21 | 5.12 | 2.11 | ppb |
| Phosphorus | 31-2 | 103511.66 | 104900.69 | 104989.08 | 104467.14 | 0.79 | ppb |
| Potassium | 39-2 | 99496.96 | 100608.07 | 100327.40 | 100144.14 | 0.58 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.13 | 0.58 | 0.23 | 0.31 | 75.27 | ppb |
| Selenium | 77-2 | -0.31 | 0.62 | -0.31 | 0.00 | 20462.25 | ppb |
| Selenium | 78-2 | 0.26 | 0.82 | 0.80 | 0.63 | 50.24 | ppb |
| Silicon | 28-1 | 25.53 | 26.12 | 28.05 | 26.57 | 4.96 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 20.11 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.03 | 0.02 | 30.13 | ppb |
| Sodium | 23-2 | 105227.50 | 109112.01 | 106874.08 | 107071.20 | 1.82 | ppb |
| Strontium | 86-1 | 33.93 | 34.72 | 34.79 | 34.48 | 1.39 | ppb |
| Strontium | 88-1 | 35.29 | 35.74 | 35.56 | 35.53 | 0.63 | ppb |
| Sulfur | 34-1 | 98761.46 | 99159.30 | 99908.90 | 99276.55 | 0.59 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.07 | 0.06 | 13.35 | ppb |
| Thallium | 205-1 | 0.05 | 0.05 | 0.06 | 0.05 | 13.41 | ppb |
| Tin | 118-1 | 0.12 | 0.10 | 0.10 | 0.11 | 9.36 | ppb |
| Titanium | 47-1 | 2081.60 | 2090.38 | 2152.89 | 2108.29 | 1.84 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.02 | 0.01 | 9.36 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.13 | 0.16 | 0.14 | 0.14 | 9.13 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 10.82 | 11.31 | 11.08 | 11.07 | 2.21 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 17.68 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.01 | 0.01 | 30.62 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 92838.93 | 94469.11 | 93063.81 | 93457.28 | 0.95 | ppb |
| Antimony | 121-1 | 22.07 | 22.24 | 22.10 | 22.14 | 0.40 | ppb |
| Arsenic | 75-2 | 21.18 | 22.22 | 21.86 | 21.75 | 2.44 | ppb |
| Barium | 135-1 | 22.31 | 21.93 | 22.27 | 22.17 | 0.94 | ppb |
| Barium | 137-1 | 22.44 | 22.72 | 22.35 | 22.50 | 0.87 | ppb |
| Beryllium | 9-1 | 21.42 | 20.87 | 21.72 | 21.34 | 2.02 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 34.81 | 34.99 | 34.94 | 34.91 | 0.26 | ppb |
| Cadmium | 106-1 | 13.22 | 14.10 | 13.41 | 13.58 | 3.38 | ppb |
| Cadmium | 111-1 | 20.78 | 20.64 | 20.52 | 20.65 | 0.62 | ppb |
| Calcium | 43-1 | 105683.57 | 106579.58 | 108123.02 | 106795.39 | 1.16 | ppb |
| Calcium | 44-1 | 104794.82 | 105729.87 | 105617.30 | 105380.66 | 0.48 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 39.71 | 39.76 | 39.90 | 39.79 | 0.24 | ppb |
| Cobalt | 59-2 | 21.38 | 21.89 | 21.63 | 21.63 | 1.18 | ppb |
| Copper | 63-2 | 28.41 | 28.36 | 28.53 | 28.43 | 0.32 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 104816.97 | 104548.16 | 103730.56 | 104365.23 | 0.54 | ppb |
| Iron | 56-2 | 102910.05 | 104311.05 | 103267.01 | 103496.04 | 0.70 | ppb |
| Iron | 57-2 | 104934.36 | 105261.70 | 103525.25 | 104573.77 | 0.88 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 25.97 | 24.96 | 25.75 | 25.56 | 2.07 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 24.71 | 24.23 | 24.66 | 24.53 | 1.08 | ppb |
| Lead | 208-1 | 25.02 | 24.47 | 25.01 | 24.83 | 1.27 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 96682.97 | 97260.00 | 97640.71 | 97194.56 | 0.50 | ppb |
| Manganese | 55-2 | 27.46 | 27.92 | 27.30 | 27.56 | 1.17 | ppb |
| Molybdenum | 94-1 | 1619.40 | 1608.19 | 1644.86 | 1624.15 | 1.16 | ppb |
| Molybdenum | 95-1 | 2019.46 | 1990.68 | 2005.22 | 2005.12 | 0.72 | ppb |
| Molybdenum | 96-1 | 1982.97 | 1946.65 | 1956.62 | 1962.08 | 0.96 | ppb |
| Molybdenum | 97-1 | 2014.48 | 1996.99 | 1995.50 | 2002.32 | 0.53 | ppb |
| Molybdenum | 98-1 | 2022.90 | 1966.70 | 2004.50 | 1998.03 | 1.43 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 24.81 | 25.20 | 25.15 | 25.05 | 0.85 | ppb |
| Phosphorus | 31-2 | 103987.60 | 104893.04 | 104661.69 | 104514.11 | 0.45 | ppb |
| Potassium | 39-2 | 99869.44 | 100245.41 | 99341.59 | 99818.81 | 0.45 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 93 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 21.09 | 21.15 | 20.39 | 20.88 | 2.03 | ppb |
| Selenium | 77-2 | 21.47 | 26.60 | 24.55 | 24.21 | 10.67 | ppb |
| Selenium | 78-2 | 23.64 | 29.89 | 26.15 | 26.56 | 11.83 | ppb |
| Silicon | 28-1 | 28.23 | 29.29 | 30.26 | 29.26 | 3.48 | ppb |
| Silver | 107-1 | 19.41 | 19.55 | 19.61 | 19.52 | 0.52 | ppb |
| Silver | 109-1 | 19.58 | 19.49 | 19.65 | 19.57 | 0.42 | ppb |
| Sodium | 23-2 | 105675.64 | 107130.02 | 107019.12 | 106608.26 | 0.76 | ppb |
| Strontium | 86-1 | 34.39 | 34.23 | 34.42 | 34.34 | 0.29 | ppb |
| Strontium | 88-1 | 35.44 | 35.27 | 35.66 | 35.46 | 0.55 | ppb |
| Sulfur | 34-1 | 96935.89 | 97847.31 | 99160.36 | 97981.19 | 1.14 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 21.19 | 21.13 | 21.08 | 21.13 | 0.25 | ppb |
| Thallium | 205-1 | 21.36 | 20.71 | 21.35 | 21.14 | 1.76 | ppb |
| Tin | 118-1 | 0.16 | 0.15 | 0.15 | 0.15 | 1.26 | ppb |
| Titanium | 47-1 | 2118.93 | 2117.62 | 2144.11 | 2126.89 | 0.70 | ppb |
| Uranium | 238-1 | 0.02 | 0.01 | 0.01 | 0.01 | 8.87 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 20.07 | 20.23 | 20.18 | 20.16 | 0.40 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 31.09 | 31.28 | 31.66 | 31.34 | 0.92 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.08 | ppb |
| Zirconium | 91-1 | 0.02 | 0.01 | 0.03 | 0.02 | 38.41 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49746.73 | 49962.40 | 49673.39 | 49794.17 | 0.30 | ppb |
| Antimony | 121-1 | 492.27 | 507.99 | 502.80 | 501.02 | 1.60 | ppb |
| Arsenic | 75-2 | 489.17 | 502.13 | 498.52 | 496.60 | 1.35 | ppb |
| Barium | 135-1 | 2560.98 | 2595.31 | 2559.67 | 2571.98 | 0.79 | ppb |
| Barium | 137-1 | 2549.68 | 2577.32 | 2530.49 | 2552.49 | 0.92 | ppb |
| Beryllium | 9-1 | 500.37 | 509.58 | 508.55 | 506.17 | 1.00 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 492.93 | 502.30 | 489.47 | 494.90 | 1.34 | ppb |
| Cadmium | 106-1 | 484.39 | 496.86 | 489.92 | 490.39 | 1.27 | ppb |
| Cadmium | 111-1 | 497.56 | 514.74 | 499.46 | 503.92 | 1.87 | ppb |
| Calcium | 43-1 | 261716.52 | 264345.47 | 260408.05 | 262156.68 | 0.76 | ppb |
| Calcium | 44-1 | 259926.82 | 258880.09 | 261089.02 | 259965.31 | 0.43 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 493.18 | 507.34 | 496.51 | 499.01 | 1.48 | ppb |
| Cobalt | 59-2 | 490.85 | 492.97 | 496.95 | 493.59 | 0.63 | ppb |
| Copper | 63-2 | 4796.25 | 4769.19 | 4751.78 | 4772.41 | 0.47 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 125145.17 | 126385.42 | 125291.99 | 125607.53 | 0.54 | ppb |
| Iron | 56-2 | 124763.32 | 126027.15 | 123663.34 | 124817.94 | 0.95 | ppb |
| Iron | 57-2 | 126361.39 | 126526.43 | 125710.97 | 126199.60 | 0.34 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2535.08 | 2592.49 | 2547.84 | 2558.47 | 1.18 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2507.54 | 2587.80 | 2491.55 | 2528.96 | 2.04 | ppb |
| Lead | 208-1 | 2527.18 | 2594.66 | 2509.28 | 2543.71 | 1.77 | ppb |
| Lithium | 6-1 | | | | 94 | | % |
| Magnesium | 24-2 | 248815.27 | 248704.63 | 246424.06 | 247981.32 | 0.54 | ppb |
| Manganese | 55-2 | 4868.97 | 4970.08 | 4908.91 | 4915.99 | 1.04 | ppb |
| Molybdenum | 94-1 | 5019.61 | 5102.96 | 5111.91 | 5078.16 | 1.00 | ppb |
| Molybdenum | 95-1 | 4986.78 | 5107.91 | 5010.17 | 5034.95 | 1.28 | ppb |
| Molybdenum | 96-1 | 4953.94 | 5045.19 | 5056.66 | 5018.60 | 1.12 | ppb |
| Molybdenum | 97-1 | 4977.78 | 5008.55 | 5064.46 | 5016.93 | 0.88 | ppb |
| Molybdenum | 98-1 | 5011.44 | 5050.31 | 5029.28 | 5030.34 | 0.39 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 465.89 | 462.76 | 459.05 | 462.57 | 0.74 | ppb |
| Phosphorus | 31-2 | 10304.56 | 10225.77 | 10004.64 | 10178.32 | 1.53 | ppb |
| Potassium | 39-2 | 125522.40 | 124299.99 | 123606.73 | 124476.37 | 0.78 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 498.03 | 495.27 | 497.46 | 496.92 | 0.29 | ppb |
| Selenium | 77-2 | 501.74 | 496.66 | 503.50 | 500.63 | 0.71 | ppb |
| Selenium | 78-2 | 482.50 | 496.57 | 493.30 | 490.79 | 1.50 | ppb |
| Silicon | 28-1 | 506.51 | 512.50 | 522.84 | 513.95 | 1.61 | ppb |
| Silver | 107-1 | 492.30 | 496.81 | 491.40 | 493.50 | 0.59 | ppb |
| Silver | 109-1 | 484.14 | 487.15 | 484.71 | 485.33 | 0.33 | ppb |
| Sodium | 23-2 | 259278.15 | 260931.82 | 253667.77 | 257959.25 | 1.48 | ppb |
| Strontium | 86-1 | 509.64 | 506.46 | 508.21 | 508.10 | 0.31 | ppb |
| Strontium | 88-1 | 495.64 | 503.77 | 504.26 | 501.22 | 0.97 | ppb |
| Sulfur | 34-1 | 9637.46 | 9749.82 | 9754.52 | 9713.93 | 0.68 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 505.41 | 518.79 | 509.41 | 511.20 | 1.34 | ppb |
| Thallium | 205-1 | 505.47 | 516.84 | 515.98 | 512.76 | 1.23 | ppb |
| Tin | 118-1 | 501.13 | 501.98 | 503.51 | 502.21 | 0.24 | ppb |
| Titanium | 47-1 | 5053.52 | 5005.06 | 5030.24 | 5029.61 | 0.48 | ppb |
| Uranium | 238-1 | 513.31 | 521.68 | 506.84 | 513.94 | 1.45 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 494.98 | 498.21 | 503.46 | 498.88 | 0.86 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 4926.43 | 4849.19 | 4750.30 | 4841.97 | 1.82 | ppb |
| Zirconium | 90-1 | 503.35 | 513.17 | 511.35 | 509.29 | 1.03 | ppb |
| Zirconium | 91-1 | 509.81 | 520.64 | 501.30 | 510.58 | 1.90 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.57 | 0.55 | 0.74 | 0.95 | 56.70 | ppb |
| Antimony | 121-1 | 0.11 | 0.11 | 0.11 | 0.11 | 3.97 | ppb |
| Arsenic | 75-2 | -0.02 | 0.03 | -0.01 | 0.00 | 1376.36 | ppb |
| Barium | 135-1 | 0.05 | 0.07 | 0.02 | 0.05 | 53.82 | ppb |
| Barium | 137-1 | 0.07 | 0.06 | 0.06 | 0.07 | 13.62 | ppb |
| Beryllium | 9-1 | 0.14 | 0.12 | 0.11 | 0.12 | 12.79 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.09 | 0.09 | 0.00 | 0.06 | 89.63 | ppb |
| Cadmium | 106-1 | -0.82 | -0.90 | -1.03 | -0.92 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.05 | -0.06 | -0.05 | | ppb |
| Calcium | 43-1 | 6.86 | 5.14 | 4.39 | 5.46 | 23.15 | ppb |
| Calcium | 44-1 | 2.75 | 2.16 | 1.42 | 2.11 | 31.72 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.02 | -0.02 | -0.01 | | ppb |
| Cobalt | 59-2 | -0.01 | 0.00 | -0.01 | 0.00 | | ppb |
| Copper | 63-2 | -0.02 | -0.07 | -0.03 | -0.04 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 3.10 | 3.80 | 3.58 | 3.49 | 10.18 | ppb |
| Iron | 56-2 | 3.39 | 3.51 | 2.66 | 3.18 | 14.38 | ppb |
| Iron | 57-2 | 4.06 | 3.76 | 2.92 | 3.58 | 16.64 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.19 | 0.17 | 0.18 | 0.18 | 5.38 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.23 | 0.19 | 0.18 | 0.20 | 13.37 | ppb |
| Lead | 208-1 | 0.20 | 0.18 | 0.17 | 0.19 | 7.74 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | -7.45 | -7.79 | -7.77 | -7.67 | | ppb |
| Manganese | 55-2 | 0.12 | 0.08 | 0.08 | 0.10 | 23.51 | ppb |
| Molybdenum | 94-1 | 0.19 | 0.14 | 0.16 | 0.17 | 14.97 | ppb |
| Molybdenum | 95-1 | 0.20 | 0.16 | 0.14 | 0.17 | 17.58 | ppb |
| Molybdenum | 96-1 | 0.18 | 0.15 | 0.15 | 0.16 | 12.28 | ppb |
| Molybdenum | 97-1 | 0.20 | 0.17 | 0.12 | 0.16 | 25.60 | ppb |
| Molybdenum | 98-1 | 0.21 | 0.16 | 0.15 | 0.17 | 18.77 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.04 | -0.01 | -0.06 | -0.04 | | ppb |
| Phosphorus | 31-2 | -14.10 | -13.15 | -9.90 | -12.38 | | ppb |
| Potassium | 39-2 | 23.30 | 23.49 | 17.96 | 21.59 | 14.55 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.13 | 0.03 | 0.38 | 0.18 | 99.36 | ppb |
| Selenium | 77-2 | 1.46 | -0.31 | -0.31 | 0.28 | 363.03 | ppb |
| Selenium | 78-2 | -0.27 | -0.02 | -0.27 | -0.19 | | ppb |
| Silicon | 28-1 | 0.51 | 0.53 | 0.28 | 0.44 | 31.16 | ppb |
| Silver | 107-1 | 0.05 | 0.05 | 0.04 | 0.05 | 6.99 | ppb |
| Silver | 109-1 | 0.05 | 0.05 | 0.05 | 0.05 | 8.31 | ppb |
| Sodium | 23-2 | 41.53 | 37.40 | 37.65 | 38.86 | 5.95 | ppb |
| Strontium | 86-1 | -0.03 | -0.03 | -0.02 | -0.03 | | ppb |
| Strontium | 88-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Sulfur | 34-1 | -895.39 | -901.33 | -837.69 | -878.14 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.07 | 0.06 | 0.05 | 0.06 | 14.39 | ppb |
| Thallium | 205-1 | 0.06 | 0.06 | 0.06 | 0.06 | 6.55 | ppb |
| Tin | 118-1 | 0.03 | 0.03 | 0.03 | 0.03 | 10.03 | ppb |
| Titanium | 47-1 | 0.14 | 0.08 | 0.05 | 0.09 | 51.00 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.00 | 0.01 | 30.82 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.00 | 0.00 | 0.00 | 177.05 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 0.24 | 0.28 | 0.14 | 0.22 | 32.21 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.02 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.96 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 13023.36 | 14394.10 | 11685.31 | 13034.26 | 10.39 | ppb |
| Antimony | 121-1 | 0.30 | 0.31 | 0.32 | 0.31 | 2.84 | ppb |
| Arsenic | 75-2 | 30.52 | 32.85 | 28.60 | 30.66 | 6.93 | ppb |
| Barium | 135-1 | 122.54 | 121.85 | 124.77 | 123.05 | 1.24 | ppb |
| Barium | 137-1 | 124.03 | 122.86 | 126.67 | 124.52 | 1.57 | ppb |
| Beryllium | 9-1 | 0.54 | 0.56 | 0.58 | 0.56 | 3.14 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.24 | 0.32 | 0.35 | 0.30 | 17.89 | ppb |
| Cadmium | 106-1 | -0.74 | -2.10 | -0.88 | -1.24 | | ppb |
| Cadmium | 111-1 | 0.03 | -0.07 | 0.04 | 0.00 | | ppb |
| Calcium | 43-1 | 3008.15 | 3068.24 | 3074.69 | 3050.36 | 1.20 | ppb |
| Calcium | 44-1 | 3071.52 | 3128.00 | 3114.64 | 3104.72 | 0.95 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 30.35 | 33.66 | 27.15 | 30.39 | 10.71 | ppb |
| Cobalt | 59-2 | 17.41 | 19.05 | 15.35 | 17.27 | 10.74 | ppb |
| Copper | 63-2 | 57.85 | 63.83 | 52.54 | 58.07 | 9.73 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 93 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 37361.70 | 40875.82 | 33179.24 | 37138.92 | 10.37 | ppb |
| Iron | 56-2 | 37468.64 | 40947.72 | 33117.73 | 37178.03 | 10.55 | ppb |
| Iron | 57-2 | 38292.27 | 42114.28 | 33816.90 | 38074.48 | 10.91 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 12.44 | 13.27 | 13.07 | 12.92 | 3.36 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 11.66 | 12.26 | 12.29 | 12.07 | 2.95 | ppb |
| Lead | 208-1 | 11.98 | 12.69 | 12.60 | 12.43 | 3.12 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 6468.64 | 7253.99 | 5886.28 | 6536.31 | 10.50 | ppb |
| Manganese | 55-2 | 281.46 | 307.38 | 248.21 | 279.02 | 10.63 | ppb |
| Molybdenum | 94-1 | 1.04 | 1.10 | 1.12 | 1.08 | 3.90 | ppb |
| Molybdenum | 95-1 | 0.43 | 0.44 | 0.46 | 0.44 | 3.32 | ppb |
| Molybdenum | 96-1 | 0.52 | 0.53 | 0.55 | 0.54 | 3.07 | ppb |
| Molybdenum | 97-1 | 0.44 | 0.43 | 0.47 | 0.45 | 5.50 | ppb |
| Molybdenum | 98-1 | 0.45 | 0.44 | 0.45 | 0.45 | 1.03 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 44.36 | 48.92 | 39.56 | 44.28 | 10.58 | ppb |
| Phosphorus | 31-2 | 363.48 | 392.51 | 331.15 | 362.38 | 8.47 | ppb |
| Potassium | 39-2 | 381.04 | 467.73 | 354.22 | 401.00 | 14.80 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 93 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 0.28 | 0.69 | 0.44 | 0.47 | 43.97 | ppb |
| Selenium | 77-2 | 10.28 | 18.52 | 13.72 | 14.17 | 29.19 | ppb |
| Selenium | 78-2 | 3.67 | 3.10 | 2.81 | 3.19 | 13.78 | ppb |
| Silicon | 28-1 | 4646.41 | 4621.42 | 4555.06 | 4607.63 | 1.02 | ppb |
| Silver | 107-1 | 0.22 | 0.20 | 0.20 | 0.20 | 6.79 | ppb |
| Silver | 109-1 | 0.22 | 0.21 | 0.20 | 0.21 | 5.34 | ppb |
| Sodium | 23-2 | 95.23 | 120.94 | 74.20 | 96.79 | 24.19 | ppb |
| Strontium | 86-1 | 25.73 | 26.66 | 26.77 | 26.38 | 2.16 | ppb |
| Strontium | 88-1 | 25.76 | 26.41 | 27.11 | 26.42 | 2.56 | ppb |
| Sulfur | 34-1 | -1264.00 | -1287.51 | -1350.87 | -1300.79 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 91 | | % |
| Thallium | 203-1 | 0.15 | 0.15 | 0.15 | 0.15 | 1.48 | ppb |
| Thallium | 205-1 | 0.15 | 0.16 | 0.15 | 0.15 | 1.92 | ppb |
| Tin | 118-1 | 0.06 | 0.04 | 0.04 | 0.05 | 30.26 | ppb |
| Titanium | 47-1 | 7.72 | 17.21 | 8.95 | 11.30 | 45.69 | ppb |
| Uranium | 238-1 | 0.22 | 0.23 | 0.24 | 0.23 | 4.52 | ppb |

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

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 36.91 | 41.04 | 32.92 | 36.96 | 11.00 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 79.68 | 87.61 | 71.45 | 79.58 | 10.15 | ppb |
| Zirconium | 90-1 | 0.42 | 0.52 | 0.40 | 0.45 | 14.05 | ppb |
| Zirconium | 91-1 | 0.45 | 0.43 | 0.44 | 0.44 | 2.86 | ppb |

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

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11561.18 | 11886.15 | 11611.28 | 11686.20 | 1.50 | ppb |
| Antimony | 121-1 | 0.29 | 0.31 | 0.29 | 0.29 | 4.87 | ppb |
| Arsenic | 75-2 | 27.26 | 27.31 | 27.30 | 27.29 | 0.09 | ppb |
| Barium | 135-1 | 122.65 | 123.90 | 123.83 | 123.46 | 0.57 | ppb |
| Barium | 137-1 | 124.22 | 125.41 | 126.74 | 125.46 | 1.00 | ppb |
| Beryllium | 9-1 | 0.53 | 0.54 | 0.53 | 0.53 | 0.86 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.32 | 0.27 | 0.31 | 0.30 | 8.46 | ppb |
| Cadmium | 106-1 | -0.95 | -1.07 | -0.33 | -0.78 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.02 | 0.07 | 0.02 | 170.11 | ppb |
| Calcium | 43-1 | 2972.83 | 2977.04 | 3038.29 | 2996.06 | 1.22 | ppb |
| Calcium | 44-1 | 3064.28 | 3107.29 | 3060.81 | 3077.46 | 0.84 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 26.72 | 27.54 | 26.92 | 27.06 | 1.58 | ppb |
| Cobalt | 59-2 | 15.27 | 15.65 | 15.16 | 15.36 | 1.67 | ppb |
| Copper | 63-2 | 51.93 | 53.12 | 51.96 | 52.34 | 1.30 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 33969.75 | 34104.99 | 33496.20 | 33856.98 | 0.94 | ppb |
| Iron | 56-2 | 33247.33 | 33763.27 | 33265.81 | 33425.47 | 0.88 | ppb |
| Iron | 57-2 | 33419.82 | 34680.30 | 33739.07 | 33946.40 | 1.93 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 12.93 | 13.00 | 12.83 | 12.92 | 0.67 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 12.21 | 12.32 | 12.00 | 12.18 | 1.36 | ppb |
| Lead | 208-1 | 12.50 | 12.61 | 12.33 | 12.48 | 1.12 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 5759.46 | 5886.64 | 5713.79 | 5786.63 | 1.55 | ppb |
| Manganese | 55-2 | 247.83 | 252.15 | 247.37 | 249.11 | 1.06 | ppb |
| Molybdenum | 94-1 | 1.08 | 1.08 | 1.07 | 1.08 | 0.73 | ppb |
| Molybdenum | 95-1 | 0.44 | 0.43 | 0.41 | 0.43 | 3.08 | ppb |
| Molybdenum | 96-1 | 0.60 | 0.51 | 0.53 | 0.55 | 7.97 | ppb |
| Molybdenum | 97-1 | 0.43 | 0.40 | 0.43 | 0.42 | 4.68 | ppb |
| Molybdenum | 98-1 | 0.43 | 0.42 | 0.45 | 0.43 | 3.51 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 39.02 | 40.07 | 39.13 | 39.41 | 1.46 | ppb |
| Phosphorus | 31-2 | 284.44 | 294.45 | 281.87 | 286.92 | 2.32 | ppb |
| Potassium | 39-2 | 342.05 | 334.95 | 326.08 | 334.36 | 2.39 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.65 | 0.57 | 0.57 | 0.60 | 7.54 | ppb |
| Selenium | 77-2 | 21.14 | 16.38 | 13.33 | 16.95 | 23.22 | ppb |
| Selenium | 78-2 | 5.00 | 3.59 | 2.72 | 3.77 | 30.53 | ppb |
| Silicon | 28-1 | 4436.20 | 4555.18 | 4722.87 | 4571.42 | 3.15 | ppb |
| Silver | 107-1 | 0.17 | 0.18 | 0.19 | 0.18 | 5.40 | ppb |
| Silver | 109-1 | 0.16 | 0.18 | 0.19 | 0.17 | 8.56 | ppb |
| Sodium | 23-2 | 57.58 | 63.40 | 58.45 | 59.81 | 5.24 | ppb |
| Strontium | 86-1 | 26.33 | 26.30 | 26.34 | 26.32 | 0.08 | ppb |
| Strontium | 88-1 | 26.22 | 26.10 | 26.30 | 26.20 | 0.38 | ppb |
| Sulfur | 34-1 | -1856.16 | -1819.99 | -1776.82 | -1817.66 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.13 | 0.14 | 0.15 | 0.14 | 8.79 | ppb |
| Thallium | 205-1 | 0.12 | 0.13 | 0.15 | 0.14 | 10.27 | ppb |
| Tin | 118-1 | 0.04 | 0.03 | 0.05 | 0.04 | 20.09 | ppb |
| Titanium | 47-1 | 10.97 | 9.88 | 10.81 | 10.55 | 5.54 | ppb |
| Uranium | 238-1 | 0.23 | 0.24 | 0.23 | 0.23 | 2.32 | ppb |

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

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 33.13 | 33.71 | 32.46 | 33.10 | 1.89 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 69.55 | 72.57 | 70.08 | 70.73 | 2.28 | ppb |
| Zirconium | 90-1 | 0.36 | 0.39 | 0.39 | 0.38 | 5.30 | ppb |
| Zirconium | 91-1 | 2.01 | 0.39 | 0.40 | 0.93 | 99.83 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2400.28 | 2390.35 | 2349.19 | 2379.94 | 1.14 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.06 | 0.06 | 10.99 | ppb |
| Arsenic | 75-2 | 5.55 | 5.50 | 5.42 | 5.49 | 1.15 | ppb |
| Barium | 135-1 | 25.07 | 25.01 | 25.12 | 25.07 | 0.22 | ppb |
| Barium | 137-1 | 25.29 | 25.32 | 25.25 | 25.28 | 0.15 | ppb |
| Beryllium | 9-1 | 0.11 | 0.14 | 0.12 | 0.12 | 10.04 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.11 | 0.06 | 0.06 | 61.76 | ppb |
| Cadmium | 106-1 | -1.25 | -2.51 | -1.39 | -1.72 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.18 | -0.09 | -0.11 | | ppb |
| Calcium | 43-1 | 603.43 | 613.59 | 614.48 | 610.50 | 1.01 | ppb |
| Calcium | 44-1 | 598.40 | 604.87 | 602.29 | 601.85 | 0.54 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5.43 | 5.50 | 5.53 | 5.49 | 0.90 | ppb |
| Cobalt | 59-2 | 3.18 | 3.16 | 3.08 | 3.14 | 1.74 | ppb |
| Copper | 63-2 | 10.63 | 10.64 | 10.45 | 10.57 | 1.01 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 6818.56 | 6734.57 | 6797.43 | 6783.52 | 0.64 | ppb |
| Iron | 56-2 | 6943.74 | 6870.90 | 6739.86 | 6851.50 | 1.51 | ppb |
| Iron | 57-2 | 6833.96 | 6719.21 | 6704.60 | 6752.59 | 1.05 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2.68 | 2.69 | 2.71 | 2.69 | 0.53 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.60 | 2.55 | 2.61 | 2.59 | 1.13 | ppb |
| Lead | 208-1 | 2.64 | 2.60 | 2.65 | 2.63 | 0.92 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 1155.73 | 1165.48 | 1147.05 | 1156.09 | 0.80 | ppb |
| Manganese | 55-2 | 51.37 | 52.55 | 50.56 | 51.49 | 1.94 | ppb |
| Molybdenum | 94-1 | 0.21 | 0.24 | 0.26 | 0.24 | 10.05 | ppb |
| Molybdenum | 95-1 | 0.09 | 0.09 | 0.09 | 0.09 | 2.58 | ppb |
| Molybdenum | 96-1 | 0.12 | 0.10 | 0.10 | 0.10 | 9.12 | ppb |
| Molybdenum | 97-1 | 0.11 | 0.08 | 0.09 | 0.09 | 13.91 | ppb |
| Molybdenum | 98-1 | 0.10 | 0.09 | 0.10 | 0.09 | 6.03 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.03 | 7.98 | 8.00 | 8.00 | 0.36 | ppb |
| Phosphorus | 31-2 | 52.51 | 55.53 | 52.81 | 53.61 | 3.11 | ppb |
| Potassium | 39-2 | 73.45 | 70.78 | 73.02 | 72.42 | 1.98 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 0.13 | 0.14 | 0.16 | 0.14 | 8.81 | ppb |
| Selenium | 77-2 | 1.45 | 1.43 | 1.42 | 1.43 | 1.05 | ppb |
| Selenium | 78-2 | 1.27 | 0.24 | 0.99 | 0.84 | 64.18 | ppb |
| Silicon | 28-1 | 1072.16 | 925.27 | 921.76 | 973.06 | 8.82 | ppb |
| Silver | 107-1 | 0.03 | 0.04 | 0.03 | 0.03 | 9.23 | ppb |
| Silver | 109-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.44 | ppb |
| Sodium | 23-2 | 19.72 | 18.98 | 15.41 | 18.04 | 12.78 | ppb |
| Strontium | 86-1 | 5.26 | 5.37 | 5.32 | 5.32 | 1.03 | ppb |
| Strontium | 88-1 | 5.26 | 5.33 | 5.35 | 5.31 | 0.88 | ppb |
| Sulfur | 34-1 | -2065.35 | -2018.08 | -2105.45 | -2062.96 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.85 | ppb |
| Thallium | 205-1 | 0.04 | 0.04 | 0.04 | 0.04 | 8.44 | ppb |
| Tin | 118-1 | -0.03 | -0.05 | -0.05 | -0.04 | | ppb |
| Titanium | 47-1 | 1.31 | 1.62 | 1.92 | 1.62 | 18.81 | ppb |
| Uranium | 238-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.83 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 6.67 | 6.66 | 6.91 | 6.75 | 2.12 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 14.79 | 15.05 | 14.50 | 14.78 | 1.86 | ppb |
| Zirconium | 90-1 | 0.07 | 0.07 | 0.08 | 0.07 | 5.33 | ppb |
| Zirconium | 91-1 | 0.16 | 0.09 | 0.08 | 0.11 | 35.29 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11817.93 | 11598.56 | 11695.75 | 11704.08 | 0.94 | ppb |
| Antimony | 121-1 | 10.63 | 10.66 | 10.82 | 10.71 | 0.95 | ppb |
| Arsenic | 75-2 | 31.28 | 29.60 | 30.06 | 30.32 | 2.87 | ppb |
| Barium | 135-1 | 319.70 | 316.23 | 324.64 | 320.19 | 1.32 | ppb |
| Barium | 137-1 | 333.76 | 325.61 | 340.15 | 333.17 | 2.19 | ppb |
| Beryllium | 9-1 | 5.24 | 5.52 | 5.38 | 5.38 | 2.53 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 4.80 | 5.06 | 4.75 | 4.87 | 3.47 | ppb |
| Cadmium | 106-1 | 2.74 | 2.31 | 2.32 | 2.46 | 10.00 | ppb |
| Cadmium | 111-1 | 5.21 | 5.01 | 5.18 | 5.13 | 2.07 | ppb |
| Calcium | 43-1 | 3469.65 | 3419.18 | 3466.52 | 3451.78 | 0.82 | ppb |
| Calcium | 44-1 | 3388.72 | 3342.93 | 3337.58 | 3356.41 | 0.84 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 46.23 | 45.55 | 46.60 | 46.13 | 1.15 | ppb |
| Cobalt | 59-2 | 65.59 | 63.55 | 65.21 | 64.78 | 1.68 | ppb |
| Copper | 63-2 | 76.84 | 75.67 | 75.73 | 76.08 | 0.87 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 33676.35 | 32324.28 | 32977.96 | 32992.86 | 2.05 | ppb |
| Iron | 56-2 | 32908.36 | 32418.20 | 32906.12 | 32744.23 | 0.86 | ppb |
| Iron | 57-2 | 33510.95 | 32992.49 | 32868.36 | 33123.93 | 1.03 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 14.74 | 14.72 | 14.85 | 14.77 | 0.49 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 14.07 | 13.94 | 14.07 | 14.03 | 0.52 | ppb |
| Lead | 208-1 | 14.32 | 14.26 | 14.32 | 14.30 | 0.26 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 5828.44 | 5634.15 | 5669.03 | 5710.54 | 1.81 | ppb |
| Manganese | 55-2 | 295.45 | 288.16 | 294.65 | 292.75 | 1.37 | ppb |
| Molybdenum | 94-1 | 42.43 | 42.64 | 43.55 | 42.87 | 1.39 | ppb |
| Molybdenum | 95-1 | 50.52 | 50.99 | 51.69 | 51.06 | 1.16 | ppb |
| Molybdenum | 96-1 | 49.31 | 50.27 | 50.70 | 50.09 | 1.42 | ppb |
| Molybdenum | 97-1 | 50.99 | 51.28 | 52.13 | 51.46 | 1.15 | ppb |
| Molybdenum | 98-1 | 50.43 | 51.31 | 51.35 | 51.03 | 1.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 89.04 | 87.19 | 88.84 | 88.36 | 1.15 | ppb |
| Phosphorus | 31-2 | 307.28 | 321.91 | 335.74 | 321.64 | 4.42 | ppb |
| Potassium | 39-2 | 328.75 | 320.98 | 317.06 | 322.26 | 1.85 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 2.50 | 2.28 | 2.44 | 2.40 | 4.63 | ppb |
| Selenium | 77-2 | 16.51 | 16.57 | 18.74 | 17.27 | 7.35 | ppb |
| Selenium | 78-2 | 4.65 | 3.68 | 5.05 | 4.46 | 15.81 | ppb |
| Silicon | 28-1 | 4814.84 | 4428.17 | 4447.94 | 4563.65 | 4.77 | ppb |
| Silver | 107-1 | 5.09 | 5.12 | 5.22 | 5.14 | 1.27 | ppb |
| Silver | 109-1 | 5.10 | 5.08 | 5.27 | 5.15 | 2.06 | ppb |
| Sodium | 23-2 | 51.34 | 48.19 | 52.67 | 50.73 | 4.54 | ppb |
| Strontium | 86-1 | 1013.38 | 1013.92 | 1008.09 | 1011.80 | 0.32 | ppb |
| Strontium | 88-1 | 997.55 | 1000.36 | 1009.06 | 1002.32 | 0.60 | ppb |
| Sulfur | 34-1 | -2288.41 | -2352.42 | -2366.66 | -2335.83 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 4.90 | 4.98 | 5.01 | 4.96 | 1.12 | ppb |
| Thallium | 205-1 | 4.98 | 5.01 | 5.02 | 5.00 | 0.35 | ppb |
| Tin | 118-1 | 0.02 | 0.00 | 0.01 | 0.01 | 80.18 | ppb |
| Titanium | 47-1 | 7.87 | 14.07 | 18.01 | 13.32 | 38.38 | ppb |
| Uranium | 238-1 | 0.23 | 0.24 | 0.23 | 0.23 | 1.30 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 80.97 | 79.34 | 81.19 | 80.50 | 1.26 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 120.38 | 116.92 | 119.63 | 118.98 | 1.53 | ppb |
| Zirconium | 90-1 | 0.39 | 0.38 | 0.41 | 0.40 | 3.64 | ppb |
| Zirconium | 91-1 | 0.41 | 0.41 | 0.64 | 0.49 | 27.50 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.44 | -0.06 | -0.57 | -0.36 | | ppb |
| Antimony | 121-1 | 0.01 | 0.00 | 0.00 | 0.01 | 27.52 | ppb |
| Arsenic | 75-2 | -0.01 | 0.02 | -0.02 | 0.00 | | ppb |
| Barium | 135-1 | -0.01 | -0.01 | -0.02 | -0.02 | | ppb |
| Barium | 137-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | 177.07 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.04 | 0.04 | 0.04 | 3.00 | ppb |
| Cadmium | 106-1 | -1.04 | -2.27 | -0.58 | -1.30 | | ppb |
| Cadmium | 111-1 | -0.09 | -0.18 | -0.05 | -0.10 | | ppb |
| Calcium | 43-1 | -1.33 | 0.21 | -0.47 | -0.53 | | ppb |
| Calcium | 44-1 | -5.67 | -5.48 | -6.31 | -5.82 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | 0.00 | -0.02 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | -0.17 | -0.19 | -0.20 | -0.19 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 0.95 | 0.99 | 0.80 | 0.91 | 10.67 | ppb |
| Iron | 56-2 | 0.70 | 0.67 | 0.59 | 0.65 | 8.86 | ppb |
| Iron | 57-2 | 0.29 | 1.74 | 1.54 | 1.19 | 65.91 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.04 | 0.03 | 0.04 | 0.04 | 11.08 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.04 | 0.04 | 0.03 | 0.03 | 17.37 | ppb |
| Lead | 208-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.15 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | -6.62 | -7.13 | -6.81 | -6.85 | | ppb |
| Manganese | 55-2 | -0.01 | 0.00 | 0.00 | -0.01 | | ppb |
| Molybdenum | 94-1 | 0.00 | 0.01 | 0.01 | 0.01 | 28.98 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.01 | 0.00 | 0.00 | 75.43 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.01 | -0.01 | 0.00 | | ppb |
| Molybdenum | 97-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 49.42 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.05 | -0.06 | -0.06 | -0.06 | | ppb |
| Phosphorus | 31-2 | -7.49 | -19.80 | -24.33 | -17.21 | | ppb |
| Potassium | 39-2 | 3.85 | 1.80 | 3.12 | 2.92 | 35.55 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.17 | 0.00 | 0.39 | 0.19 | 104.02 | ppb |
| Selenium | 77-2 | -0.31 | -0.31 | -0.31 | -0.31 | | ppb |
| Selenium | 78-2 | 0.98 | -0.27 | 0.99 | 0.57 | 128.24 | ppb |
| Silicon | 28-1 | -0.46 | -1.52 | -1.63 | -1.20 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 747.58 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 33.98 | ppb |
| Sodium | 23-2 | 3.59 | -0.52 | -0.45 | 0.87 | 268.83 | ppb |
| Strontium | 86-1 | -0.04 | -0.05 | -0.04 | -0.04 | | ppb |
| Strontium | 88-1 | -0.04 | -0.04 | -0.03 | -0.03 | | ppb |
| Sulfur | 34-1 | -1377.16 | -1655.54 | -1520.32 | -1517.67 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.36 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.03 | ppb |
| Tin | 118-1 | -0.01 | -0.02 | -0.01 | -0.02 | | ppb |
| Titanium | 47-1 | -0.06 | -0.04 | -0.08 | -0.06 | | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 0.13 | 0.00 | -0.02 | 0.04 | 230.14 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 210.07 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.00 | 0.01 | 97.99 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 41.27 | 41.94 | 40.43 | 41.22 | 1.83 | ppb |
| Antimony | 121-1 | 4.33 | 4.44 | 4.32 | 4.36 | 1.52 | ppb |
| Arsenic | 75-2 | 2.29 | 2.31 | 2.31 | 2.30 | 0.50 | ppb |
| Barium | 135-1 | 20.75 | 21.44 | 21.01 | 21.07 | 1.64 | ppb |
| Barium | 137-1 | 20.69 | 21.35 | 21.13 | 21.06 | 1.59 | ppb |
| Beryllium | 9-1 | 2.15 | 2.18 | 2.13 | 2.15 | 1.08 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 2.65 | 2.30 | 2.43 | 2.46 | 7.11 | ppb |
| Cadmium | 106-1 | 1.04 | 1.23 | 2.02 | 1.43 | 36.25 | ppb |
| Cadmium | 111-1 | 2.09 | 2.17 | 2.23 | 2.17 | 3.38 | ppb |
| Calcium | 43-1 | 1074.02 | 1108.22 | 1084.79 | 1089.01 | 1.61 | ppb |
| Calcium | 44-1 | 1048.57 | 1074.68 | 1066.03 | 1063.09 | 1.25 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.95 | 4.11 | 4.07 | 4.04 | 1.99 | ppb |
| Cobalt | 59-2 | 2.11 | 2.18 | 2.16 | 2.15 | 1.65 | ppb |
| Copper | 63-2 | 4.52 | 4.58 | 4.59 | 4.56 | 0.90 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 54-2 | 426.73 | 438.04 | 442.64 | 435.80 | 1.88 | ppb |
| Iron | 56-2 | 426.95 | 434.63 | 438.82 | 433.47 | 1.39 | ppb |
| Iron | 57-2 | 435.76 | 431.17 | 440.14 | 435.69 | 1.03 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.98 | 2.09 | 2.07 | 2.05 | 2.93 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.04 | 2.06 | 2.16 | 2.09 | 3.06 | ppb |
| Lead | 208-1 | 2.01 | 2.09 | 2.09 | 2.07 | 2.21 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 988.05 | 1005.11 | 1021.90 | 1005.02 | 1.68 | ppb |
| Manganese | 55-2 | 2.04 | 2.07 | 2.11 | 2.07 | 1.68 | ppb |
| Molybdenum | 94-1 | 21.14 | 21.64 | 21.79 | 21.52 | 1.57 | ppb |
| Molybdenum | 95-1 | 21.27 | 21.91 | 21.84 | 21.67 | 1.62 | ppb |
| Molybdenum | 96-1 | 21.10 | 21.74 | 21.67 | 21.50 | 1.62 | ppb |
| Molybdenum | 97-1 | 21.43 | 22.10 | 22.02 | 21.85 | 1.68 | ppb |
| Molybdenum | 98-1 | 20.97 | 21.66 | 21.72 | 21.45 | 1.93 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.03 | 2.00 | 2.16 | 2.06 | 4.24 | ppb |
| Phosphorus | 31-2 | 37.48 | 48.04 | 29.93 | 38.48 | 23.65 | ppb |
| Potassium | 39-2 | 1007.03 | 1024.04 | 1046.03 | 1025.70 | 1.91 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 10.37 | 11.04 | 10.92 | 10.78 | 3.34 | ppb |
| Selenium | 77-2 | 10.76 | 6.73 | 7.66 | 8.38 | 25.20 | ppb |
| Selenium | 78-2 | 12.20 | 13.12 | 11.40 | 12.24 | 7.01 | ppb |
| Silicon | 28-1 | 22.33 | 23.73 | 23.24 | 23.10 | 3.08 | ppb |
| Silver | 107-1 | 2.11 | 2.20 | 2.18 | 2.16 | 2.22 | ppb |
| Silver | 109-1 | 2.13 | 2.19 | 2.16 | 2.16 | 1.50 | ppb |
| Sodium | 23-2 | 1047.44 | 1061.84 | 1096.05 | 1068.44 | 2.34 | ppb |
| Strontium | 86-1 | 3.55 | 3.74 | 3.73 | 3.68 | 2.86 | ppb |
| Strontium | 88-1 | 3.61 | 3.72 | 3.74 | 3.69 | 1.93 | ppb |
| Sulfur | 34-1 | -1344.14 | -1162.81 | -1173.22 | -1226.72 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 2.00 | 2.04 | 2.08 | 2.04 | 1.92 | ppb |
| Thallium | 205-1 | 2.08 | 2.06 | 2.11 | 2.08 | 1.23 | ppb |
| Tin | 118-1 | 10.53 | 10.92 | 10.83 | 10.76 | 1.87 | ppb |
| Titanium | 47-1 | 2.49 | 2.48 | 2.49 | 2.48 | 0.22 | ppb |
| Uranium | 238-1 | 1.85 | 1.91 | 1.90 | 1.89 | 1.82 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10.50 | 10.55 | 10.69 | 10.58 | 0.92 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 10.84 | 10.69 | 10.44 | 10.66 | 1.87 | ppb |
| Zirconium | 90-1 | 1.98 | 2.08 | 2.02 | 2.03 | 2.36 | ppb |
| Zirconium | 91-1 | 1.95 | 2.03 | 2.00 | 1.99 | 2.05 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.92 | 0.71 | 0.43 | 0.69 | 35.58 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.62 | ppb |
| Arsenic | 75-2 | -0.02 | -0.01 | 0.02 | 0.00 | | ppb |
| Barium | 135-1 | 0.01 | 0.03 | 0.03 | 0.02 | 59.93 | ppb |
| Barium | 137-1 | 0.02 | 0.01 | 0.02 | 0.02 | 36.15 | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | -0.01 | 0.02 | 0.02 | 158.61 | ppb |
| Cadmium | 106-1 | -1.57 | -1.07 | -0.66 | -1.10 | | ppb |
| Cadmium | 111-1 | -0.12 | -0.08 | -0.05 | -0.08 | | ppb |
| Calcium | 43-1 | 5.89 | 6.03 | 4.72 | 5.55 | 12.95 | ppb |
| Calcium | 44-1 | -0.70 | -0.97 | -0.61 | -0.76 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.20 | 0.21 | 0.20 | 0.20 | 3.59 | ppb |
| Cobalt | 59-2 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | -0.18 | -0.18 | -0.18 | -0.18 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 54-2 | 1.60 | 1.62 | 2.71 | 1.98 | 32.12 | ppb |
| Iron | 56-2 | 1.46 | 1.26 | 1.42 | 1.38 | 7.95 | ppb |
| Iron | 57-2 | 1.69 | 1.05 | 0.71 | 1.15 | 43.11 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.15 | 0.11 | 0.09 | 0.11 | 26.33 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.15 | 0.11 | 0.09 | 0.12 | 25.40 | ppb |
| Lead | 208-1 | 0.15 | 0.10 | 0.09 | 0.11 | 25.54 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -6.21 | -6.11 | -4.80 | -5.71 | | ppb |
| Manganese | 55-2 | 0.36 | 0.32 | 0.44 | 0.37 | 17.13 | ppb |
| Molybdenum | 94-1 | -0.02 | 0.00 | 0.00 | -0.01 | | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 97-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.08 | -0.08 | -0.05 | -0.07 | | ppb |
| Phosphorus | 31-2 | -5.50 | -8.36 | -5.50 | -6.45 | | ppb |
| Potassium | 39-2 | -0.07 | 3.15 | 1.86 | 1.64 | 98.63 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.11 | -0.19 | 0.36 | 0.09 | 296.96 | ppb |
| Selenium | 77-2 | 0.55 | -0.31 | -0.31 | -0.02 | | ppb |
| Selenium | 78-2 | -0.02 | 0.23 | -0.27 | -0.02 | | ppb |
| Silicon | 28-1 | 9.11 | 9.60 | 10.48 | 9.73 | 7.17 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.27 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.21 | ppb |
| Sodium | 23-2 | 16.24 | 13.37 | 16.33 | 15.31 | 11.01 | ppb |
| Strontium | 86-1 | -0.02 | 0.01 | 0.03 | 0.01 | 302.91 | ppb |
| Strontium | 88-1 | 0.03 | 0.02 | 0.02 | 0.02 | 6.22 | ppb |
| Sulfur | 34-1 | -1364.05 | -1398.69 | -1313.04 | -1358.59 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.01 | 0.02 | 29.65 | ppb |
| Thallium | 205-1 | 0.03 | 0.02 | 0.01 | 0.02 | 31.39 | ppb |
| Tin | 118-1 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Titanium | 47-1 | -0.13 | -0.14 | -0.15 | -0.14 | | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 0.06 | 0.04 | 0.07 | 0.06 | 23.92 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 455.02 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | 685.88 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.55 | -0.39 | -0.10 | -0.35 | | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.86 | ppb |
| Arsenic | 75-2 | 0.01 | -0.03 | -0.04 | -0.02 | | ppb |
| Barium | 135-1 | -0.03 | 0.00 | -0.02 | -0.02 | | ppb |
| Barium | 137-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Beryllium | 9-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.06 | 0.03 | 0.00 | 0.03 | 106.61 | ppb |
| Cadmium | 106-1 | -0.32 | -1.94 | -1.65 | -1.31 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.15 | -0.13 | -0.10 | | ppb |
| Calcium | 43-1 | 0.71 | -0.96 | -0.85 | -0.37 | | ppb |
| Calcium | 44-1 | -6.00 | -6.37 | -6.05 | -6.14 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | -0.02 | -0.03 | -0.02 | | ppb |
| Cobalt | 59-2 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | -0.19 | -0.18 | -0.16 | -0.18 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 0.62 | 0.60 | 0.74 | 0.66 | 11.65 | ppb |
| Iron | 56-2 | 0.26 | 0.16 | 0.33 | 0.25 | 34.51 | ppb |
| Iron | 57-2 | -0.46 | 0.47 | 0.71 | 0.24 | 259.86 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.00 | 0.00 | 0.00 | 0.00 | 431.31 | ppb |
| Lead | 208-1 | -0.01 | 0.00 | 0.00 | 0.00 | | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | -6.23 | -4.83 | -5.74 | -5.60 | | ppb |
| Manganese | 55-2 | -0.02 | -0.04 | -0.05 | -0.04 | | ppb |
| Molybdenum | 94-1 | 0.01 | 0.00 | 0.00 | 0.00 | 108.41 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | 123.60 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.01 | 0.00 | 0.00 | 40.48 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.10 | -0.08 | -0.13 | -0.10 | | ppb |
| Phosphorus | 31-2 | -12.00 | -15.04 | -17.47 | -14.84 | | ppb |
| Potassium | 39-2 | -2.26 | 4.77 | 1.38 | 1.29 | 271.38 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | -0.12 | 0.11 | -0.11 | -0.04 | | ppb |
| Selenium | 77-2 | -0.31 | 1.43 | -0.31 | 0.27 | 369.72 | ppb |
| Selenium | 78-2 | 0.76 | 0.75 | 0.25 | 0.59 | 49.33 | ppb |
| Silicon | 28-1 | 0.81 | 0.53 | 0.90 | 0.75 | 25.56 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 80.06 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 18.23 | ppb |
| Sodium | 23-2 | -2.97 | -0.92 | -2.43 | -2.11 | | ppb |
| Strontium | 86-1 | -0.04 | -0.04 | -0.03 | -0.04 | | ppb |
| Strontium | 88-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Sulfur | 34-1 | -784.35 | -839.37 | -769.86 | -797.86 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 37.44 | ppb |
| Thallium | 205-1 | 0.01 | 0.00 | 0.00 | 0.00 | 36.05 | ppb |
| Tin | 118-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Titanium | 47-1 | -0.04 | -0.06 | -0.06 | -0.05 | | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 388.11 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 0.11 | 0.08 | -0.02 | 0.06 | 120.33 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 37.00 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 42.31 | 42.79 | 44.10 | 43.07 | 2.15 | ppb |
| Antimony | 121-1 | 4.26 | 4.25 | 4.41 | 4.30 | 2.03 | ppb |
| Arsenic | 75-2 | 2.23 | 2.25 | 1.98 | 2.16 | 7.12 | ppb |
| Barium | 135-1 | 20.53 | 20.66 | 21.20 | 20.80 | 1.72 | ppb |
| Barium | 137-1 | 21.16 | 20.98 | 21.35 | 21.17 | 0.86 | ppb |
| Beryllium | 9-1 | 2.13 | 2.13 | 2.13 | 2.13 | 0.04 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 2.38 | 2.52 | 2.55 | 2.48 | 3.60 | ppb |
| Cadmium | 106-1 | 0.75 | -0.04 | 0.50 | 0.41 | 99.68 | ppb |
| Cadmium | 111-1 | 2.10 | 2.06 | 2.11 | 2.09 | 1.21 | ppb |
| Calcium | 43-1 | 1088.25 | 1085.67 | 1107.36 | 1093.76 | 1.08 | ppb |
| Calcium | 44-1 | 1052.90 | 1079.72 | 1069.48 | 1067.37 | 1.27 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.96 | 4.01 | 3.96 | 3.98 | 0.68 | ppb |
| Cobalt | 59-2 | 2.20 | 2.19 | 2.18 | 2.19 | 0.59 | ppb |
| Copper | 63-2 | 4.52 | 4.52 | 4.49 | 4.51 | 0.43 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 434.99 | 440.43 | 442.39 | 439.27 | 0.87 | ppb |
| Iron | 56-2 | 431.43 | 431.64 | 432.54 | 431.87 | 0.14 | ppb |
| Iron | 57-2 | 424.58 | 435.20 | 425.04 | 428.27 | 1.40 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2.00 | 1.99 | 2.00 | 2.00 | 0.16 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2.07 | 2.02 | 2.01 | 2.04 | 1.75 | ppb |
| Lead | 208-1 | 2.03 | 2.01 | 1.99 | 2.01 | 0.82 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 1006.20 | 1006.22 | 998.56 | 1003.66 | 0.44 | ppb |
| Manganese | 55-2 | 2.01 | 2.13 | 2.05 | 2.06 | 2.86 | ppb |
| Molybdenum | 94-1 | 11.84 | 11.98 | 12.10 | 11.97 | 1.07 | ppb |
| Molybdenum | 95-1 | 9.86 | 9.90 | 10.30 | 10.02 | 2.40 | ppb |
| Molybdenum | 96-1 | 10.20 | 10.35 | 10.47 | 10.34 | 1.29 | ppb |
| Molybdenum | 97-1 | 9.92 | 10.23 | 10.21 | 10.12 | 1.67 | ppb |
| Molybdenum | 98-1 | 9.81 | 10.04 | 10.34 | 10.06 | 2.61 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.08 | 2.01 | 2.06 | 2.05 | 1.62 | ppb |
| Phosphorus | 31-2 | 27.21 | 33.22 | 20.52 | 26.98 | 23.54 | ppb |
| Potassium | 39-2 | 1036.66 | 1027.66 | 1018.88 | 1027.73 | 0.87 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 10.58 | 10.13 | 11.63 | 10.78 | 7.10 | ppb |
| Selenium | 77-2 | 10.30 | 6.79 | 11.19 | 9.43 | 24.71 | ppb |
| Selenium | 78-2 | 11.63 | 12.45 | 14.24 | 12.77 | 10.43 | ppb |
| Silicon | 28-1 | 23.48 | 24.72 | 24.85 | 24.35 | 3.10 | ppb |
| Silver | 107-1 | 2.08 | 2.16 | 2.19 | 2.15 | 2.67 | ppb |
| Silver | 109-1 | 2.13 | 2.16 | 2.18 | 2.15 | 1.21 | ppb |
| Sodium | 23-2 | 1069.85 | 1074.81 | 1064.19 | 1069.62 | 0.50 | ppb |
| Strontium | 86-1 | 1.91 | 2.10 | 2.03 | 2.01 | 4.72 | ppb |
| Strontium | 88-1 | 1.97 | 1.99 | 2.07 | 2.01 | 2.47 | ppb |
| Sulfur | 34-1 | -1022.63 | -878.23 | -794.16 | -898.34 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 2.07 | 2.02 | 2.03 | 2.04 | 1.07 | ppb |
| Thallium | 205-1 | 2.04 | 2.03 | 2.03 | 2.03 | 0.37 | ppb |
| Tin | 118-1 | 10.58 | 10.68 | 10.81 | 10.69 | 1.09 | ppb |
| Titanium | 47-1 | 2.54 | 2.44 | 2.55 | 2.51 | 2.45 | ppb |
| Uranium | 238-1 | 1.87 | 1.88 | 1.87 | 1.87 | 0.31 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 10.75 | 10.54 | 10.39 | 10.56 | 1.70 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 10.33 | 10.49 | 10.33 | 10.38 | 0.87 | ppb |
| Zirconium | 90-1 | 1.98 | 2.03 | 2.05 | 2.02 | 1.81 | ppb |
| Zirconium | 91-1 | 1.97 | 1.99 | 1.98 | 1.98 | 0.42 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7.88 | 8.23 | 7.75 | 7.95 | 3.10 | ppb |
| Antimony | 121-1 | 0.05 | 0.05 | 0.05 | 0.05 | 2.94 | ppb |
| Arsenic | 75-2 | 0.38 | 0.42 | 0.29 | 0.36 | 18.40 | ppb |
| Barium | 135-1 | 18.49 | 18.85 | 18.32 | 18.55 | 1.45 | ppb |
| Barium | 137-1 | 18.38 | 19.41 | 18.88 | 18.89 | 2.73 | ppb |
| Beryllium | 9-1 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.02 | 0.04 | 0.04 | 38.81 | ppb |
| Cadmium | 106-1 | -1.26 | -0.50 | -0.46 | -0.74 | | ppb |
| Cadmium | 111-1 | -0.09 | -0.04 | -0.03 | -0.06 | | ppb |
| Calcium | 43-1 | 374945.38 | 382182.11 | 378143.76 | 378423.75 | 0.96 | ppb |
| Calcium | 44-1 | 369342.36 | 378084.91 | 371452.94 | 372960.07 | 1.22 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.46 | 0.48 | 0.37 | 0.44 | 13.37 | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.03 | 0.02 | 11.96 | ppb |
| Copper | 63-2 | -0.07 | -0.07 | -0.08 | -0.07 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 832.33 | 822.93 | 845.38 | 833.55 | 1.35 | ppb |
| Iron | 56-2 | 861.23 | 856.04 | 854.50 | 857.26 | 0.41 | ppb |
| Iron | 57-2 | 828.22 | 818.88 | 849.52 | 832.21 | 1.89 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.08 | 0.08 | 0.07 | 0.08 | 9.53 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.08 | 0.09 | 0.08 | 0.08 | 8.32 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.08 | 0.08 | 5.00 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 115372.05 | 114712.95 | 117417.01 | 115834.00 | 1.22 | ppb |
| Manganese | 55-2 | 29.45 | 28.85 | 30.14 | 29.48 | 2.19 | ppb |
| Molybdenum | 94-1 | 0.47 | 0.44 | 0.43 | 0.45 | 4.07 | ppb |
| Molybdenum | 95-1 | 0.35 | 0.38 | 0.37 | 0.37 | 3.43 | ppb |
| Molybdenum | 96-1 | 0.36 | 0.35 | 0.36 | 0.36 | 1.97 | ppb |
| Molybdenum | 97-1 | 0.38 | 0.35 | 0.39 | 0.37 | 5.75 | ppb |
| Molybdenum | 98-1 | 0.35 | 0.36 | 0.37 | 0.36 | 2.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.14 | 0.11 | 0.24 | 0.16 | 38.58 | ppb |
| Phosphorus | 31-2 | -2.59 | -7.24 | -16.73 | -8.85 | | ppb |
| Potassium | 39-2 | 3592.20 | 3548.37 | 3600.33 | 3580.30 | 0.78 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.48 | 0.75 | 1.15 | 0.80 | 41.92 | ppb |
| Selenium | 77-2 | -0.31 | 0.60 | -0.31 | 0.00 | | ppb |
| Selenium | 78-2 | 0.26 | 0.00 | 1.35 | 0.54 | 134.40 | ppb |
| Silicon | 28-1 | 5575.50 | 5692.76 | 5550.32 | 5606.19 | 1.36 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.85 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.79 | ppb |
| Sodium | 23-2 | 31661.82 | 31845.38 | 32335.28 | 31947.49 | 1.09 | ppb |
| Strontium | 86-1 | 13988.20 | 13770.49 | 13947.12 | 13901.94 | 0.83 | ppb |
| Strontium | 88-1 | 14047.29 | 13802.44 | 13960.21 | 13936.65 | 0.89 | ppb |
| Sulfur | 34-1 | 405453.53 | 410350.89 | 405708.20 | 407170.87 | 0.68 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.51 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.90 | ppb |
| Tin | 118-1 | 0.95 | 0.94 | 0.92 | 0.94 | 1.80 | ppb |
| Titanium | 47-1 | 0.44 | 0.50 | 0.52 | 0.49 | 9.27 | ppb |
| Uranium | 238-1 | 0.21 | 0.21 | 0.20 | 0.21 | 1.57 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.11 | 0.11 | 0.11 | 11.23 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 1.93 | 1.84 | 1.66 | 1.81 | 7.41 | ppb |
| Zirconium | 90-1 | 0.08 | 0.08 | 0.08 | 0.08 | 5.74 | ppb |
| Zirconium | 91-1 | 0.09 | 0.08 | 0.08 | 0.08 | 4.69 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6120.53 | 6733.47 | 6024.12 | 6292.71 | 6.11 | ppb |
| Antimony | 121-1 | 0.13 | 0.15 | 0.13 | 0.14 | 5.82 | ppb |
| Arsenic | 75-2 | 13.92 | 15.11 | 13.64 | 14.22 | 5.47 | ppb |
| Barium | 135-1 | 61.94 | 62.33 | 63.67 | 62.65 | 1.45 | ppb |
| Barium | 137-1 | 62.01 | 62.76 | 63.86 | 62.88 | 1.48 | ppb |
| Beryllium | 9-1 | 0.27 | 0.25 | 0.24 | 0.25 | 4.96 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.13 | 0.18 | 0.11 | 0.14 | 26.71 | ppb |
| Cadmium | 106-1 | -0.63 | -0.53 | -0.51 | -0.56 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Calcium | 43-1 | 1553.81 | 1560.82 | 1605.62 | 1573.42 | 1.79 | ppb |
| Calcium | 44-1 | 1606.90 | 1581.39 | 1631.06 | 1606.45 | 1.55 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 14.31 | 15.63 | 14.08 | 14.67 | 5.69 | ppb |
| Cobalt | 59-2 | 7.95 | 8.73 | 7.82 | 8.17 | 6.04 | ppb |
| Copper | 63-2 | 27.02 | 30.02 | 26.35 | 27.80 | 7.03 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 17690.27 | 19473.78 | 17272.69 | 18145.58 | 6.44 | ppb |
| Iron | 56-2 | 17495.32 | 19344.66 | 16867.81 | 17902.59 | 7.19 | ppb |
| Iron | 57-2 | 17252.54 | 19015.37 | 16941.64 | 17736.52 | 6.31 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 6.72 | 6.71 | 6.90 | 6.78 | 1.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6.39 | 6.34 | 6.45 | 6.39 | 0.81 | ppb |
| Lead | 208-1 | 6.50 | 6.44 | 6.63 | 6.52 | 1.51 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 2970.90 | 3304.07 | 2915.53 | 3063.50 | 6.86 | ppb |
| Manganese | 55-2 | 131.55 | 143.90 | 127.23 | 134.23 | 6.45 | ppb |
| Molybdenum | 94-1 | 0.53 | 0.82 | 2.08 | 1.14 | 72.07 | ppb |
| Molybdenum | 95-1 | 0.20 | 0.22 | 0.21 | 0.21 | 4.27 | ppb |
| Molybdenum | 96-1 | 0.27 | 0.25 | 0.27 | 0.26 | 4.03 | ppb |
| Molybdenum | 97-1 | 0.21 | 0.21 | 0.23 | 0.22 | 6.08 | ppb |
| Molybdenum | 98-1 | 0.22 | 0.20 | 0.21 | 0.21 | 3.09 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 20.62 | 22.58 | 20.09 | 21.09 | 6.22 | ppb |
| Phosphorus | 31-2 | 184.17 | 167.87 | 147.01 | 166.35 | 11.20 | ppb |
| Potassium | 39-2 | 177.62 | 205.22 | 202.41 | 195.09 | 7.79 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | -0.01 | 0.07 | 0.21 | 0.09 | 122.26 | ppb |
| Selenium | 77-2 | 9.64 | 3.72 | 6.72 | 6.69 | 44.24 | ppb |
| Selenium | 78-2 | 2.11 | 0.61 | 1.27 | 1.33 | 56.40 | ppb |
| Silicon | 28-1 | 2264.31 | 2262.80 | 2400.82 | 2309.31 | 3.43 | ppb |
| Silver | 107-1 | 0.10 | 0.09 | 0.10 | 0.10 | 5.14 | ppb |
| Silver | 109-1 | 0.10 | 0.10 | 0.10 | 0.10 | 3.02 | ppb |
| Sodium | 23-2 | 38.00 | 55.69 | 35.00 | 42.90 | 26.06 | ppb |
| Strontium | 86-1 | 13.93 | 13.78 | 14.17 | 13.96 | 1.42 | ppb |
| Strontium | 88-1 | 13.82 | 13.83 | 14.31 | 13.99 | 2.00 | ppb |
| Sulfur | 34-1 | -472.09 | -658.16 | -433.60 | -521.28 | | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.05 | 0.05 | 9.18 | ppb |
| Thallium | 205-1 | 0.05 | 0.05 | 0.05 | 0.05 | 5.32 | ppb |
| Tin | 118-1 | 0.01 | -0.02 | -0.02 | -0.01 | | ppb |
| Titanium | 47-1 | 4.39 | 6.02 | 6.02 | 5.48 | 17.21 | ppb |
| Uranium | 238-1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.72 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17.20 | 19.14 | 17.03 | 17.79 | 6.60 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 37.30 | 41.40 | 34.96 | 37.89 | 8.60 | ppb |
| Zirconium | 90-1 | 0.22 | 0.19 | 0.24 | 0.22 | 10.97 | ppb |
| Zirconium | 91-1 | 0.18 | 0.21 | 0.23 | 0.21 | 10.23 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5782.66 | 5937.85 | 6258.60 | 5993.04 | 4.05 | ppb |
| Antimony | 121-1 | 0.13 | 0.13 | 0.13 | 0.13 | 1.45 | ppb |
| Arsenic | 75-2 | 13.13 | 13.62 | 13.23 | 13.33 | 1.95 | ppb |
| Barium | 135-1 | 59.91 | 61.64 | 61.84 | 61.13 | 1.74 | ppb |
| Barium | 137-1 | 59.87 | 62.10 | 62.30 | 61.42 | 2.20 | ppb |
| Beryllium | 9-1 | 0.26 | 0.24 | 0.25 | 0.25 | 3.35 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.14 | 0.09 | 0.13 | 0.12 | 21.58 | ppb |
| Cadmium | 106-1 | -1.18 | -0.49 | -0.05 | -0.57 | | ppb |
| Cadmium | 111-1 | -0.05 | 0.01 | 0.05 | 0.00 | 1589.24 | ppb |
| Calcium | 43-1 | 1497.54 | 1518.41 | 1499.20 | 1505.05 | 0.77 | ppb |
| Calcium | 44-1 | 1531.91 | 1587.68 | 1524.09 | 1547.89 | 2.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 13.41 | 13.71 | 14.25 | 13.79 | 3.11 | ppb |
| Cobalt | 59-2 | 7.60 | 7.77 | 8.14 | 7.84 | 3.53 | ppb |
| Copper | 63-2 | 25.87 | 26.34 | 27.68 | 26.63 | 3.52 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 17128.44 | 17166.35 | 17876.01 | 17390.27 | 2.42 | ppb |
| Iron | 56-2 | 16652.95 | 16717.50 | 17607.67 | 16992.71 | 3.14 | ppb |
| Iron | 57-2 | 16193.05 | 16623.95 | 17514.74 | 16777.25 | 4.02 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 6.25 | 6.29 | 6.45 | 6.33 | 1.69 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5.88 | 5.98 | 6.04 | 5.97 | 1.37 | ppb |
| Lead | 208-1 | 5.99 | 6.08 | 6.18 | 6.09 | 1.57 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 2807.75 | 2860.61 | 3024.39 | 2897.58 | 3.90 | ppb |
| Manganese | 55-2 | 123.72 | 126.12 | 131.82 | 127.22 | 3.27 | ppb |
| Molybdenum | 94-1 | 0.48 | 0.50 | 0.49 | 0.49 | 2.69 | ppb |
| Molybdenum | 95-1 | 0.19 | 0.20 | 0.19 | 0.19 | 1.64 | ppb |
| Molybdenum | 96-1 | 0.39 | 0.24 | 0.24 | 0.29 | 29.64 | ppb |
| Molybdenum | 97-1 | 0.19 | 0.18 | 0.20 | 0.19 | 4.94 | ppb |
| Molybdenum | 98-1 | 0.18 | 0.21 | 0.19 | 0.19 | 7.55 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 19.42 | 19.45 | 21.18 | 20.01 | 5.03 | ppb |
| Phosphorus | 31-2 | 127.15 | 164.37 | 172.30 | 154.61 | 15.59 | ppb |
| Potassium | 39-2 | 159.33 | 164.65 | 181.12 | 168.37 | 6.75 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.71 | 0.14 | 0.67 | 0.51 | 62.04 | ppb |
| Selenium | 77-2 | 9.29 | 4.95 | 4.27 | 6.17 | 44.18 | ppb |
| Selenium | 78-2 | 2.28 | 1.52 | 3.21 | 2.34 | 36.11 | ppb |
| Silicon | 28-1 | 2412.98 | 2281.59 | 2251.33 | 2315.30 | 3.71 | ppb |
| Silver | 107-1 | 0.07 | 0.08 | 0.09 | 0.08 | 10.45 | ppb |
| Silver | 109-1 | 0.08 | 0.08 | 0.08 | 0.08 | 1.56 | ppb |
| Sodium | 23-2 | 26.02 | 27.70 | 37.00 | 30.24 | 19.56 | ppb |
| Strontium | 86-1 | 12.73 | 13.29 | 13.23 | 13.08 | 2.36 | ppb |
| Strontium | 88-1 | 12.92 | 13.42 | 13.19 | 13.18 | 1.89 | ppb |
| Sulfur | 34-1 | -1081.76 | -1034.96 | -1116.36 | -1077.69 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.04 | 0.04 | 0.05 | 0.04 | 10.09 | ppb |
| Thallium | 205-1 | 0.04 | 0.04 | 0.04 | 0.04 | 8.37 | ppb |
| Tin | 118-1 | -0.02 | -0.03 | -0.03 | -0.03 | | ppb |
| Titanium | 47-1 | 3.65 | 5.44 | 3.86 | 4.32 | 22.70 | ppb |
| Uranium | 238-1 | 0.10 | 0.11 | 0.30 | 0.17 | 65.55 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 16.53 | 16.81 | 17.83 | 17.06 | 4.03 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 35.42 | 35.57 | 37.40 | 36.13 | 3.05 | ppb |
| Zirconium | 90-1 | 0.52 | 0.18 | 0.20 | 0.30 | 63.48 | ppb |
| Zirconium | 91-1 | 0.21 | 0.19 | 0.17 | 0.19 | 10.60 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1185.86 | 1170.09 | 1181.89 | 1179.28 | 0.70 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.62 | ppb |
| Arsenic | 75-2 | 2.72 | 2.86 | 2.88 | 2.82 | 3.14 | ppb |
| Barium | 135-1 | 12.27 | 12.56 | 12.20 | 12.34 | 1.54 | ppb |
| Barium | 137-1 | 12.72 | 12.45 | 12.14 | 12.43 | 2.35 | ppb |
| Beryllium | 9-1 | 0.05 | 0.05 | 0.04 | 0.05 | 12.60 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.04 | 0.05 | 0.04 | 24.26 | ppb |
| Cadmium | 106-1 | -0.57 | -1.17 | -1.07 | -0.94 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.08 | -0.08 | -0.07 | | ppb |
| Calcium | 43-1 | 309.95 | 313.56 | 312.82 | 312.11 | 0.61 | ppb |
| Calcium | 44-1 | 300.54 | 308.19 | 301.31 | 303.34 | 1.39 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.76 | 2.74 | 2.81 | 2.77 | 1.32 | ppb |
| Cobalt | 59-2 | 1.52 | 1.47 | 1.54 | 1.51 | 2.51 | ppb |
| Copper | 63-2 | 5.15 | 4.97 | 5.19 | 5.11 | 2.25 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 3396.72 | 3295.62 | 3391.22 | 3361.19 | 1.69 | ppb |
| Iron | 56-2 | 3430.21 | 3340.32 | 3394.33 | 3388.29 | 1.34 | ppb |
| Iron | 57-2 | 3362.70 | 3314.57 | 3327.66 | 3334.98 | 0.75 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.25 | 1.28 | 1.27 | 1.27 | 1.06 | ppb |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.21 | 1.20 | 1.21 | 1.20 | 0.64 | ppb |
| Lead | 208-1 | 1.23 | 1.23 | 1.24 | 1.24 | 0.47 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 574.27 | 562.38 | 569.19 | 568.62 | 1.05 | ppb |
| Manganese | 55-2 | 25.08 | 24.98 | 25.37 | 25.15 | 0.81 | ppb |
| Molybdenum | 94-1 | 0.13 | 0.09 | 0.08 | 0.10 | 26.45 | ppb |
| Molybdenum | 95-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.71 | ppb |
| Molybdenum | 96-1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.98 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.03 | 0.04 | 0.03 | 13.73 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.04 | 0.04 | 5.36 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 4.04 | 3.83 | 3.94 | 3.94 | 2.62 | ppb |
| Phosphorus | 31-2 | 31.46 | 9.79 | 12.80 | 18.01 | 65.18 | ppb |
| Potassium | 39-2 | 34.81 | 34.61 | 35.99 | 35.14 | 2.12 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | -0.10 | 0.21 | 0.05 | 0.06 | 273.95 | ppb |
| Selenium | 77-2 | 1.43 | 1.46 | -0.31 | 0.86 | 117.73 | ppb |
| Selenium | 78-2 | 0.74 | -0.01 | 0.24 | 0.32 | 118.89 | ppb |
| Silicon | 28-1 | 456.61 | 463.09 | 460.45 | 460.05 | 0.71 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.01 | 0.02 | 19.40 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.02 | 0.02 | 8.13 | ppb |
| Sodium | 23-2 | 8.58 | 5.59 | 6.63 | 6.93 | 21.92 | ppb |
| Strontium | 86-1 | 2.62 | 2.58 | 2.72 | 2.64 | 2.67 | ppb |
| Strontium | 88-1 | 2.71 | 2.66 | 2.69 | 2.68 | 0.85 | ppb |
| Sulfur | 34-1 | -861.10 | -781.07 | -978.68 | -873.61 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.18 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.17 | ppb |
| Tin | 118-1 | -0.07 | -0.06 | -0.06 | -0.06 | | ppb |
| Titanium | 47-1 | 0.67 | 1.38 | 0.76 | 0.94 | 41.10 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.48 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.37 | 3.30 | 3.24 | 3.30 | 1.95 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 7.26 | 7.44 | 7.64 | 7.45 | 2.56 | ppb |
| Zirconium | 90-1 | 0.03 | 0.04 | 0.05 | 0.04 | 17.19 | ppb |
| Zirconium | 91-1 | 0.04 | 0.03 | 0.05 | 0.04 | 24.86 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5861.59 | 5939.44 | 5911.28 | 5904.10 | 0.67 | ppb |
| Antimony | 121-1 | 5.33 | 5.38 | 5.40 | 5.37 | 0.67 | ppb |
| Arsenic | 75-2 | 15.75 | 15.82 | 16.65 | 16.08 | 3.10 | ppb |
| Barium | 135-1 | 157.52 | 161.28 | 161.89 | 160.23 | 1.48 | ppb |
| Barium | 137-1 | 162.49 | 162.13 | 160.43 | 161.68 | 0.68 | ppb |
| Beryllium | 9-1 | 2.72 | 2.68 | 2.68 | 2.69 | 0.75 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 2.58 | 2.82 | 2.56 | 2.65 | 5.44 | ppb |
| Cadmium | 106-1 | 1.83 | 1.61 | 1.65 | 1.70 | 7.04 | ppb |
| Cadmium | 111-1 | 2.69 | 2.64 | 2.54 | 2.62 | 2.89 | ppb |
| Calcium | 43-1 | 1735.13 | 1761.32 | 1756.07 | 1750.84 | 0.79 | ppb |
| Calcium | 44-1 | 1681.63 | 1743.82 | 1689.34 | 1704.93 | 1.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 23.10 | 23.66 | 23.50 | 23.42 | 1.22 | ppb |
| Cobalt | 59-2 | 32.49 | 32.92 | 33.12 | 32.84 | 0.99 | ppb |
| Copper | 63-2 | 38.13 | 38.68 | 38.72 | 38.51 | 0.85 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 17011.13 | 17097.42 | 17037.73 | 17048.76 | 0.26 | ppb |
| Iron | 56-2 | 16430.19 | 16967.92 | 16656.89 | 16685.00 | 1.62 | ppb |
| Iron | 57-2 | 16160.89 | 16417.63 | 16404.64 | 16327.72 | 0.89 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 7.31 | 7.43 | 7.31 | 7.35 | 0.95 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6.92 | 6.93 | 6.95 | 6.93 | 0.21 | ppb |
| Lead | 208-1 | 7.04 | 7.12 | 7.10 | 7.09 | 0.59 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 2796.90 | 2853.05 | 2845.39 | 2831.78 | 1.08 | ppb |
| Manganese | 55-2 | 146.05 | 149.86 | 147.88 | 147.93 | 1.29 | ppb |
| Molybdenum | 94-1 | 21.19 | 21.60 | 21.79 | 21.53 | 1.43 | ppb |
| Molybdenum | 95-1 | 25.00 | 25.52 | 25.84 | 25.45 | 1.66 | ppb |
| Molybdenum | 96-1 | 24.67 | 25.60 | 25.07 | 25.11 | 1.87 | ppb |
| Molybdenum | 97-1 | 25.61 | 25.99 | 25.99 | 25.86 | 0.85 | ppb |
| Molybdenum | 98-1 | 25.04 | 25.68 | 25.66 | 25.46 | 1.42 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 44.57 | 45.10 | 45.63 | 45.10 | 1.17 | ppb |
| Phosphorus | 31-2 | 145.62 | 150.27 | 131.23 | 142.37 | 6.97 | ppb |
| Potassium | 39-2 | 159.20 | 163.31 | 162.03 | 161.51 | 1.30 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.98 | 1.25 | 1.08 | 1.11 | 12.34 | ppb |
| Selenium | 77-2 | 8.18 | 8.50 | 7.64 | 8.10 | 5.37 | ppb |
| Selenium | 78-2 | 4.45 | 1.28 | 2.83 | 2.85 | 55.68 | ppb |
| Silicon | 28-1 | 2289.32 | 2274.59 | 2256.08 | 2273.33 | 0.73 | ppb |
| Silver | 107-1 | 2.54 | 2.56 | 2.60 | 2.57 | 1.18 | ppb |
| Silver | 109-1 | 2.53 | 2.56 | 2.59 | 2.56 | 1.25 | ppb |
| Sodium | 23-2 | 23.02 | 25.35 | 24.77 | 24.38 | 4.99 | ppb |
| Strontium | 86-1 | 505.30 | 516.54 | 514.22 | 512.02 | 1.16 | ppb |
| Strontium | 88-1 | 498.56 | 503.13 | 503.41 | 501.70 | 0.54 | ppb |
| Sulfur | 34-1 | -944.73 | -1030.80 | -1124.20 | -1033.24 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 2.44 | 2.46 | 2.43 | 2.45 | 0.73 | ppb |
| Thallium | 205-1 | 2.45 | 2.47 | 2.48 | 2.47 | 0.64 | ppb |
| Tin | 118-1 | -0.02 | -0.02 | -0.03 | -0.03 | | ppb |
| Titanium | 47-1 | 4.66 | 4.19 | 3.91 | 4.25 | 8.81 | ppb |
| Uranium | 238-1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.98 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 40.38 | 41.14 | 41.46 | 40.99 | 1.35 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 59.73 | 60.48 | 60.43 | 60.21 | 0.69 | ppb |
| Zirconium | 90-1 | 0.27 | 0.20 | 0.17 | 0.21 | 23.51 | ppb |
| Zirconium | 91-1 | 0.31 | 0.21 | 0.19 | 0.24 | 27.93 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49473.08 | 50852.87 | 49571.92 | 49965.96 | 1.54 | ppb |
| Antimony | 121-1 | 500.02 | 494.86 | 504.80 | 499.89 | 0.99 | ppb |
| Arsenic | 75-2 | 487.40 | 491.14 | 504.57 | 494.37 | 1.83 | ppb |
| Barium | 135-1 | 2496.16 | 2493.42 | 2549.64 | 2513.07 | 1.26 | ppb |
| Barium | 137-1 | 2501.67 | 2474.06 | 2558.13 | 2511.29 | 1.71 | ppb |
| Beryllium | 9-1 | 500.52 | 507.65 | 513.65 | 507.27 | 1.30 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 490.12 | 489.13 | 497.07 | 492.11 | 0.88 | ppb |
| Cadmium | 106-1 | 485.95 | 486.92 | 498.25 | 490.38 | 1.40 | ppb |
| Cadmium | 111-1 | 494.44 | 489.39 | 489.82 | 491.22 | 0.57 | ppb |
| Calcium | 43-1 | 251891.84 | 256836.15 | 257808.16 | 255512.05 | 1.24 | ppb |
| Calcium | 44-1 | 251129.51 | 254691.67 | 258252.44 | 254691.21 | 1.40 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 494.07 | 509.62 | 501.30 | 501.66 | 1.55 | ppb |
| Cobalt | 59-2 | 483.63 | 500.88 | 494.21 | 492.91 | 1.76 | ppb |
| Copper | 63-2 | 4675.94 | 4785.34 | 4839.99 | 4767.09 | 1.75 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 126998.97 | 126869.85 | 126346.19 | 126738.34 | 0.27 | ppb |
| Iron | 56-2 | 124234.33 | 124820.26 | 126837.43 | 125297.34 | 1.09 | ppb |
| Iron | 57-2 | 123184.09 | 125502.80 | 128336.49 | 125674.46 | 2.05 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2522.20 | 2536.34 | 2554.74 | 2537.76 | 0.64 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2504.87 | 2554.04 | 2554.47 | 2537.79 | 1.12 | ppb |
| Lead | 208-1 | 2510.03 | 2528.91 | 2567.73 | 2535.56 | 1.16 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 248488.64 | 254072.12 | 251785.19 | 251448.65 | 1.12 | ppb |
| Manganese | 55-2 | 4907.71 | 4910.09 | 4980.29 | 4932.70 | 0.84 | ppb |
| Molybdenum | 94-1 | 4970.75 | 5022.10 | 5000.65 | 4997.83 | 0.52 | ppb |
| Molybdenum | 95-1 | 4889.76 | 5034.01 | 5021.77 | 4981.85 | 1.61 | ppb |
| Molybdenum | 96-1 | 5018.54 | 4996.00 | 5009.63 | 5008.06 | 0.23 | ppb |
| Molybdenum | 97-1 | 5003.00 | 4979.73 | 5046.74 | 5009.82 | 0.68 | ppb |
| Molybdenum | 98-1 | 4948.35 | 4974.32 | 5009.33 | 4977.33 | 0.61 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 454.13 | 461.18 | 465.59 | 460.30 | 1.26 | ppb |
| Phosphorus | 31-2 | 10071.28 | 10178.72 | 10008.37 | 10086.12 | 0.85 | ppb |
| Potassium | 39-2 | 124622.77 | 124504.20 | 124051.56 | 124392.84 | 0.24 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 487.62 | 482.38 | 487.99 | 486.00 | 0.64 | ppb |
| Selenium | 77-2 | 488.48 | 506.20 | 518.79 | 504.49 | 3.02 | ppb |
| Selenium | 78-2 | 497.94 | 509.27 | 484.95 | 497.39 | 2.45 | ppb |
| Silicon | 28-1 | 495.28 | 503.58 | 512.53 | 503.80 | 1.71 | ppb |
| Silver | 107-1 | 479.98 | 485.27 | 491.56 | 485.60 | 1.19 | ppb |
| Silver | 109-1 | 482.97 | 480.11 | 492.81 | 485.30 | 1.37 | ppb |
| Sodium | 23-2 | 255912.08 | 259221.77 | 262756.68 | 259296.84 | 1.32 | ppb |
| Strontium | 86-1 | 504.63 | 506.68 | 504.67 | 505.33 | 0.23 | ppb |
| Strontium | 88-1 | 495.14 | 501.11 | 501.71 | 499.32 | 0.73 | ppb |
| Sulfur | 34-1 | 9714.57 | 9591.88 | 9677.16 | 9661.20 | 0.65 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 513.72 | 509.84 | 519.45 | 514.34 | 0.94 | ppb |
| Thallium | 205-1 | 505.56 | 503.58 | 514.11 | 507.75 | 1.10 | ppb |
| Tin | 118-1 | 494.57 | 492.56 | 511.79 | 499.64 | 2.12 | ppb |
| Titanium | 47-1 | 4907.00 | 4955.37 | 5009.43 | 4957.26 | 1.03 | ppb |
| Uranium | 238-1 | 502.77 | 501.12 | 520.47 | 508.12 | 2.11 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 490.40 | 493.86 | 496.20 | 493.49 | 0.59 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 4799.76 | 4821.03 | 4892.93 | 4837.91 | 1.01 | ppb |
| Zirconium | 90-1 | 496.36 | 506.21 | 506.57 | 503.04 | 1.15 | ppb |
| Zirconium | 91-1 | 492.65 | 513.94 | 511.09 | 505.90 | 2.28 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.21 | 0.35 | 0.53 | 0.37 | 43.41 | ppb |
| Antimony | 121-1 | 0.11 | 0.10 | 0.09 | 0.10 | 9.96 | ppb |
| Arsenic | 75-2 | -0.02 | -0.02 | 0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.06 | 0.04 | 0.03 | 0.04 | 40.70 | ppb |
| Barium | 137-1 | 0.09 | 0.05 | 0.05 | 0.07 | 31.20 | ppb |
| Beryllium | 9-1 | 0.10 | 0.09 | 0.09 | 0.09 | 9.24 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.03 | 0.11 | 0.07 | 62.70 | ppb |
| Cadmium | 106-1 | -2.03 | -0.94 | -2.09 | -1.69 | | ppb |
| Cadmium | 111-1 | -0.15 | -0.05 | -0.14 | -0.11 | | ppb |
| Calcium | 43-1 | 4.61 | 4.53 | 3.57 | 4.24 | 13.59 | ppb |
| Calcium | 44-1 | 1.47 | -1.02 | -1.53 | -0.36 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | 0.02 | 0.01 | 0.00 | 656.28 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | -0.08 | -0.05 | -0.04 | -0.06 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 2.58 | 2.55 | 2.44 | 2.52 | 2.88 | ppb |
| Iron | 56-2 | 2.08 | 2.16 | 1.88 | 2.04 | 6.95 | ppb |
| Iron | 57-2 | 1.85 | 2.24 | 2.46 | 2.18 | 14.30 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.13 | 0.11 | 0.12 | 0.12 | 8.23 | ppb |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.14 | 0.11 | 0.11 | 0.12 | 11.70 | ppb |
| Lead | 208-1 | 0.14 | 0.12 | 0.11 | 0.12 | 13.58 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | -7.64 | -8.31 | -7.42 | -7.79 | | ppb |
| Manganese | 55-2 | 0.09 | 0.09 | 0.12 | 0.10 | 13.07 | ppb |
| Molybdenum | 94-1 | 0.17 | 0.10 | 0.11 | 0.13 | 29.44 | ppb |
| Molybdenum | 95-1 | 0.17 | 0.11 | 0.12 | 0.13 | 23.74 | ppb |
| Molybdenum | 96-1 | 0.16 | 0.13 | 0.10 | 0.13 | 25.47 | ppb |
| Molybdenum | 97-1 | 0.15 | 0.12 | 0.09 | 0.12 | 23.51 | ppb |
| Molybdenum | 98-1 | 0.17 | 0.13 | 0.10 | 0.13 | 27.55 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.17 | 0.19 | 0.28 | 0.21 | 27.26 | ppb |
| Phosphorus | 31-2 | -15.11 | -16.37 | -11.62 | -14.36 | | ppb |
| Potassium | 39-2 | 9.76 | 10.98 | 8.69 | 9.81 | 11.67 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 0.26 | 0.08 | 0.44 | 0.26 | 69.22 | ppb |
| Selenium | 77-2 | -0.31 | 0.57 | -0.31 | -0.02 | | ppb |
| Selenium | 78-2 | -0.27 | 0.50 | 1.56 | 0.60 | 154.39 | ppb |
| Silicon | 28-1 | 0.36 | 0.17 | 0.21 | 0.25 | 40.52 | ppb |
| Silver | 107-1 | 0.04 | 0.03 | 0.02 | 0.03 | 21.86 | ppb |
| Silver | 109-1 | 0.05 | 0.04 | 0.03 | 0.04 | 21.61 | ppb |
| Sodium | 23-2 | 20.93 | 20.89 | 19.72 | 20.51 | 3.38 | ppb |
| Strontium | 86-1 | -0.03 | -0.03 | -0.04 | -0.03 | | ppb |
| Strontium | 88-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Sulfur | 34-1 | -948.11 | -935.85 | -935.81 | -939.92 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.04 | 0.03 | 0.03 | 0.03 | 9.60 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 14.66 | ppb |
| Tin | 118-1 | 0.01 | 0.01 | 0.01 | 0.01 | 28.03 | ppb |
| Titanium | 47-1 | 0.08 | 0.06 | 0.05 | 0.06 | 23.17 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.00 | 0.01 | 49.94 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 176.56 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 0.23 | 0.12 | 0.15 | 0.17 | 33.12 | ppb |
| Zirconium | 90-1 | 0.01 | 0.02 | 0.01 | 0.01 | 29.26 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.00 | 0.01 | 78.92 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 103 | 127 | 110 | 113 | 10.61 | cps |
| Antimony | 121-1 | 57 | 40 | 60 | 52 | 20.52 | cps |
| Arsenic | 75-2 | 17 | 0 | 17 | 11 | 86.60 | cps |
| Barium | 135-1 | 253 | 270 | 253 | 259 | 3.72 | cps |
| Barium | 137-1 | 307 | 357 | 353 | 339 | 8.25 | cps |
| Beryllium | 9-1 | 366 | 360 | 359 | 362 | 1.11 | cps |
| Bismuth | 209-1 | 13275325 | 13140858 | 13103762 | 13173315 | 0.69 | cps |
| Bismuth | 209-2 | 4988262 | 4906578 | 4955423 | 4950088 | 0.83 | cps |
| Bromine | 81-1 | 3557 | 3821 | 3520 | 3633 | 4.51 | cps |
| Cadmium | 108-1 | 13 | 17 | 30 | 20 | 44.10 | cps |
| Cadmium | 106-1 | 8193 | 8269 | 8346 | 8269 | 0.93 | cps |
| Cadmium | 111-1 | 5752 | 5787 | 5844 | 5794 | 0.81 | cps |
| Calcium | 43-1 | 420 | 387 | 450 | 419 | 7.56 | cps |
| Calcium | 44-1 | 29641 | 29133 | 28993 | 29255 | 1.17 | cps |
| Carbon | 12-1 | 3404220 | 3349154 | 3328299 | 3360557 | 1.17 | cps |
| Carbon | 12-2 | 23021 | 22427 | 22788 | 22745 | 1.32 | cps |
| Chlorine | 35-1 | 127939 | 127697 | 126887 | 127508 | 0.43 | cps |
| Chlorine | 35-2 | 477 | 520 | 493 | 497 | 4.40 | cps |
| Chromium | 52-2 | 717 | 713 | 810 | 747 | 7.35 | cps |
| Cobalt | 59-2 | 153 | 173 | 197 | 174 | 12.43 | cps |
| Copper | 63-2 | 3527 | 3374 | 3324 | 3408 | 3.11 | cps |
| Dysprosium | 156-1 | 147 | 103 | 160 | 137 | 21.68 | cps |
| Dysprosium | 156-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Erbium | 164-1 | 133 | 93 | 140 | 122 | 20.65 | cps |
| Erbium | 164-2 | 40 | 27 | 30 | 32 | 21.53 | cps |
| Gadolinium | 160-1 | 133 | 157 | 117 | 136 | 14.82 | cps |
| Gadolinium | 160-2 | 17 | 20 | 40 | 26 | 49.38 | cps |
| Holmium | 165-1 | 20745007 | 20390432 | 20532713 | 20556051 | 0.87 | cps |
| Holmium | 165-2 | 6570019 | 6536123 | 6438593 | 6514912 | 1.05 | cps |
| Indium | 115-1 | 15990482 | 16095920 | 16025387 | 16037263 | 0.33 | cps |
| Indium | 115-2 | 1383269 | 1384341 | 1391629 | 1386413 | 0.33 | cps |
| Iron | 54-2 | 383 | 400 | 307 | 363 | 13.70 | cps |
| Iron | 56-2 | 5831 | 6001 | 6128 | 5987 | 2.49 | cps |
| Iron | 57-2 | 130 | 127 | 157 | 138 | 11.93 | cps |
| Krypton | 83-1 | 340 | 273 | 243 | 286 | 17.33 | cps |
| Lead | 206-1 | 2120 | 2087 | 2240 | 2149 | 3.75 | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1710 | 1823 | 1670 | 1735 | 4.59 | cps |
| Lead | 208-1 | 8051 | 8355 | 8034 | 8147 | 2.21 | cps |
| Lithium | 6-1 | 7490438 | 7316961 | 7462925 | 7423441 | 1.26 | cps |
| Magnesium | 24-2 | 4121 | 3911 | 4371 | 4134 | 5.57 | cps |
| Manganese | 55-2 | 140 | 163 | 190 | 164 | 15.21 | cps |
| Molybdenum | 94-1 | 440 | 380 | 353 | 391 | 11.35 | cps |
| Molybdenum | 95-1 | 173 | 147 | 137 | 152 | 12.45 | cps |
| Molybdenum | 96-1 | 237 | 263 | 237 | 246 | 6.27 | cps |
| Molybdenum | 97-1 | 110 | 137 | 120 | 122 | 11.02 | cps |
| Molybdenum | 98-1 | 213 | 200 | 177 | 197 | 9.44 | cps |
| Neodymium | 150-1 | 17 | 7 | 7 | 10 | 57.72 | cps |
| Neodymium | 150-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 907 | 930 | 897 | 911 | 1.88 | cps |
| Phosphorus | 31-2 | 70 | 97 | 93 | 87 | 16.77 | cps |
| Potassium | 39-2 | 9537 | 9210 | 9467 | 9404 | 1.83 | cps |
| Rhodium | 103-1 | 14912726 | 14564954 | 14726231 | 14734637 | 1.18 | cps |
| Rhodium | 103-2 | 5463921 | 5364977 | 5413198 | 5414032 | 0.91 | cps |
| Scandium | 45-1 | 10482385 | 10523577 | 10387300 | 10464421 | 0.67 | cps |
| Scandium | 45-2 | 183202 | 183361 | 188006 | 184856 | 1.48 | cps |
| Selenium | 82-1 | -77 | -30 | 0 | -36 | -108.66 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Silicon | 28-1 | 513562 | 513497 | 512737 | 513265 | 0.09 | cps |
| Silver | 107-1 | 247 | 233 | 217 | 232 | 6.47 | cps |
| Silver | 109-1 | 73 | 53 | 73 | 67 | 17.32 | cps |
| Sodium | 23-2 | 57104 | 56526 | 56874 | 56834 | 0.51 | cps |
| Strontium | 86-1 | 730 | 830 | 783 | 781 | 6.41 | cps |
| Strontium | 88-1 | 2950 | 2874 | 2654 | 2826 | 5.45 | cps |
| Sulfur | 34-1 | 748981 | 749440 | 741213 | 746544 | 0.62 | cps |
| Terbium | 159-1 | 20338462 | 20804449 | 20860423 | 20667778 | 1.39 | cps |
| Terbium | 159-2 | 6329934 | 6305846 | 6337854 | 6324544 | 0.26 | cps |
| Thallium | 203-1 | 343 | 407 | 387 | 379 | 8.55 | cps |
| Thallium | 205-1 | 883 | 993 | 897 | 924 | 6.49 | cps |
| Tin | 118-1 | 3200 | 3187 | 3210 | 3199 | 0.37 | cps |
| Titanium | 47-1 | 633 | 547 | 740 | 640 | 15.14 | cps |
| Uranium | 238-1 | 133 | 210 | 150 | 164 | 24.52 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:05:13 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 23 | 10 | 16 | 44.60 | cps |
| Ytterbium | 172-1 | 117 | 123 | 137 | 126 | 8.11 | cps |
| Ytterbium | 172-2 | 27 | 53 | 23 | 34 | 47.73 | cps |
| Ytterbium | 176-1 | 2584 | 2007 | 1977 | 2189 | 15.62 | cps |
| Ytterbium | 176-2 | 337 | 397 | 383 | 372 | 8.46 | cps |
| Yttrium | 89-1 | 27036724 | 26993352 | 27119239 | 27049772 | 0.24 | cps |
| Yttrium | 89-2 | 1699120 | 1719689 | 1723718 | 1714176 | 0.77 | cps |
| Zinc | 66-2 | 237 | 183 | 167 | 196 | 18.70 | cps |
| Zirconium | 90-1 | 903 | 917 | 920 | 913 | 0.97 | cps |
| Zirconium | 91-1 | 193 | 157 | 173 | 174 | 10.52 | cps |

Reviewed By:Mohan
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1293 | 1397 | 1263 | 1318 | 5.31 | cps |
| Antimony | 121-1 | 36368 | 36245 | 36582 | 36398 | 0.47 | cps |
| Arsenic | 75-2 | 303 | 340 | 320 | 321 | 5.72 | cps |
| Barium | 135-1 | 42958 | 43680 | 43994 | 43544 | 1.22 | cps |
| Barium | 137-1 | 76106 | 75060 | 75891 | 75686 | 0.73 | cps |
| Beryllium | 9-1 | 6302 | 6256 | 6279 | 6279 | 0.37 | cps |
| Bismuth | 209-1 | 13305169 | 13319359 | 13198515 | 13274348 | 0.50 | cps |
| Bismuth | 209-2 | 4897531 | 5006140 | 5001587 | 4968419 | 1.24 | cps |
| Bromine | 81-1 | 3884 | 3764 | 3891 | 3846 | 1.85 | cps |
| Cadmium | 108-1 | 353 | 400 | 370 | 374 | 6.32 | cps |
| Cadmium | 106-1 | 8796 | 8256 | 8700 | 8584 | 3.36 | cps |
| Cadmium | 111-1 | 10444 | 10143 | 10441 | 10343 | 1.67 | cps |
| Calcium | 43-1 | 28308 | 28715 | 28796 | 28606 | 0.91 | cps |
| Calcium | 44-1 | 479668 | 486118 | 482908 | 482898 | 0.67 | cps |
| Carbon | 12-1 | 3363525 | 3372602 | 3371157 | 3369095 | 0.14 | cps |
| Carbon | 12-2 | 22377 | 23045 | 22674 | 22699 | 1.47 | cps |
| Chlorine | 35-1 | 126567 | 126605 | 128729 | 127300 | 0.97 | cps |
| Chlorine | 35-2 | 393 | 443 | 443 | 427 | 6.77 | cps |
| Chromium | 52-2 | 7622 | 7826 | 7529 | 7659 | 1.98 | cps |
| Cobalt | 59-2 | 7135 | 7269 | 7429 | 7277 | 2.02 | cps |
| Copper | 63-2 | 14134 | 14411 | 14481 | 14342 | 1.28 | cps |
| Dysprosium | 156-1 | 133 | 157 | 160 | 150 | 9.68 | cps |
| Dysprosium | 156-2 | 17 | 10 | 10 | 12 | 31.50 | cps |
| Erbium | 164-1 | 70 | 80 | 110 | 87 | 24.02 | cps |
| Erbium | 164-2 | 37 | 17 | 27 | 27 | 37.50 | cps |
| Gadolinium | 160-1 | 127 | 143 | 123 | 131 | 8.17 | cps |
| Gadolinium | 160-2 | 20 | 13 | 23 | 19 | 26.96 | cps |
| Holmium | 165-1 | 20748497 | 20702416 | 20640064 | 20696992 | 0.26 | cps |
| Holmium | 165-2 | 6496169 | 6612263 | 6547834 | 6552089 | 0.89 | cps |
| Indium | 115-1 | 16067441 | 16277713 | 16096744 | 16147299 | 0.71 | cps |
| Indium | 115-2 | 1390285 | 1408611 | 1395889 | 1398262 | 0.67 | cps |
| Iron | 54-2 | 7652 | 7942 | 7796 | 7797 | 1.86 | cps |
| Iron | 56-2 | 139733 | 140366 | 138636 | 139579 | 0.63 | cps |
| Iron | 57-2 | 3447 | 3550 | 3340 | 3446 | 3.05 | cps |
| Krypton | 83-1 | 270 | 343 | 260 | 291 | 15.63 | cps |
| Lead | 206-1 | 16337 | 16728 | 16667 | 16577 | 1.27 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 14084 | 14235 | 14021 | 14113 | 0.78 | cps |
| Lead | 208-1 | 65676 | 65889 | 65622 | 65729 | 0.21 | cps |
| Lithium | 6-1 | 7417028 | 7533299 | 7482519 | 7477615 | 0.78 | cps |
| Magnesium | 24-2 | 125642 | 127387 | 126987 | 126672 | 0.72 | cps |
| Manganese | 55-2 | 1570 | 1497 | 1553 | 1540 | 2.50 | cps |
| Molybdenum | 94-1 | 36150 | 36735 | 36351 | 36412 | 0.82 | cps |
| Molybdenum | 95-1 | 43618 | 43702 | 43859 | 43726 | 0.28 | cps |
| Molybdenum | 96-1 | 48615 | 49963 | 49016 | 49198 | 1.41 | cps |
| Molybdenum | 97-1 | 27477 | 27430 | 27764 | 27557 | 0.66 | cps |
| Molybdenum | 98-1 | 69878 | 71265 | 71141 | 70761 | 1.08 | cps |
| Neodymium | 150-1 | 13 | 7 | 20 | 13 | 49.99 | cps |
| Neodymium | 150-2 | 0 | 7 | 3 | 3 | 100.05 | cps |
| Nickel | 60-2 | 2750 | 2860 | 2837 | 2816 | 2.06 | cps |
| Phosphorus | 31-2 | 137 | 140 | 187 | 154 | 18.10 | cps |
| Potassium | 39-2 | 72698 | 72578 | 72829 | 72702 | 0.17 | cps |
| Rhodium | 103-1 | 14933407 | 15023952 | 14957859 | 14971740 | 0.31 | cps |
| Rhodium | 103-2 | 5415561 | 5419026 | 5486447 | 5440344 | 0.73 | cps |
| Scandium | 45-1 | 10404605 | 10362599 | 10440548 | 10402584 | 0.38 | cps |
| Scandium | 45-2 | 185967 | 188890 | 186642 | 187166 | 0.82 | cps |
| Selenium | 82-1 | 1410 | 1403 | 1267 | 1360 | 5.95 | cps |
| Selenium | 77-2 | 23 | 13 | 20 | 19 | 26.96 | cps |
| Selenium | 78-2 | 53 | 73 | 80 | 69 | 20.15 | cps |
| Silicon | 28-1 | 592652 | 588031 | 589567 | 590083 | 0.40 | cps |
| Silver | 107-1 | 21587 | 22044 | 22301 | 21978 | 1.65 | cps |
| Silver | 109-1 | 20906 | 20973 | 21433 | 21104 | 1.36 | cps |
| Sodium | 23-2 | 295886 | 295862 | 296889 | 296212 | 0.20 | cps |
| Strontium | 86-1 | 6432 | 6291 | 6255 | 6326 | 1.47 | cps |
| Strontium | 88-1 | 51819 | 51832 | 52250 | 51967 | 0.47 | cps |
| Sulfur | 34-1 | 758163 | 757218 | 761096 | 758826 | 0.27 | cps |
| Terbium | 159-1 | 20876308 | 21064451 | 20780423 | 20907061 | 0.69 | cps |
| Terbium | 159-2 | 6254713 | 6310590 | 6250826 | 6272043 | 0.53 | cps |
| Thallium | 203-1 | 18463 | 18857 | 17842 | 18388 | 2.78 | cps |
| Thallium | 205-1 | 44195 | 44921 | 44162 | 44426 | 0.97 | cps |
| Tin | 118-1 | 74953 | 75711 | 75929 | 75531 | 0.68 | cps |
| Titanium | 47-1 | 13680 | 13420 | 13727 | 13609 | 1.22 | cps |
| Uranium | 238-1 | 56194 | 56314 | 56458 | 56322 | 0.24 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:08:35 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13557 | 13423 | 13577 | 13519 | 0.62 | cps |
| Ytterbium | 172-1 | 140 | 130 | 117 | 129 | 9.08 | cps |
| Ytterbium | 172-2 | 50 | 43 | 27 | 40 | 30.04 | cps |
| Ytterbium | 176-1 | 2177 | 2367 | 2224 | 2256 | 4.39 | cps |
| Ytterbium | 176-2 | 333 | 357 | 403 | 364 | 9.78 | cps |
| Yttrium | 89-1 | 26691519 | 26956347 | 27177395 | 26941754 | 0.90 | cps |
| Yttrium | 89-2 | 1737480 | 1722980 | 1768395 | 1742952 | 1.33 | cps |
| Zinc | 66-2 | 3157 | 3047 | 3224 | 3143 | 2.84 | cps |
| Zirconium | 90-1 | 30577 | 30607 | 31275 | 30820 | 1.28 | cps |
| Zirconium | 91-1 | 6805 | 6868 | 6668 | 6781 | 1.51 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 62842 | 62641 | 62574 | 62685 | 0.22 | cps |
| Antimony | 121-1 | 861745 | 857215 | 867603 | 862188 | 0.60 | cps |
| Arsenic | 75-2 | 14811 | 15335 | 15045 | 15064 | 1.74 | cps |
| Barium | 135-1 | 1039569 | 1035146 | 1040465 | 1038393 | 0.27 | cps |
| Barium | 137-1 | 1829036 | 1837006 | 1822590 | 1829544 | 0.39 | cps |
| Beryllium | 9-1 | 280527 | 282353 | 279656 | 280845 | 0.49 | cps |
| Bismuth | 209-1 | 13375628 | 13388117 | 13312811 | 13358852 | 0.30 | cps |
| Bismuth | 209-2 | 4898733 | 4904587 | 4900921 | 4901414 | 0.06 | cps |
| Bromine | 81-1 | 3841 | 3781 | 3887 | 3836 | 1.39 | cps |
| Cadmium | 108-1 | 17431 | 17855 | 17792 | 17693 | 1.29 | cps |
| Cadmium | 106-1 | 33731 | 33223 | 33768 | 33574 | 0.91 | cps |
| Cadmium | 111-1 | 221619 | 223413 | 223740 | 222924 | 0.51 | cps |
| Calcium | 43-1 | 267443 | 270725 | 270715 | 269628 | 0.70 | cps |
| Calcium | 44-1 | 4398491 | 4410493 | 4446600 | 4418528 | 0.57 | cps |
| Carbon | 12-1 | 3434325 | 3453165 | 3427420 | 3438303 | 0.39 | cps |
| Carbon | 12-2 | 23108 | 23148 | 23325 | 23194 | 0.50 | cps |
| Chlorine | 35-1 | 126987 | 126803 | 127035 | 126942 | 0.10 | cps |
| Chlorine | 35-2 | 440 | 410 | 503 | 451 | 10.56 | cps |
| Chromium | 52-2 | 165134 | 165134 | 166152 | 165473 | 0.36 | cps |
| Cobalt | 59-2 | 322127 | 324722 | 322021 | 322956 | 0.47 | cps |
| Copper | 63-2 | 2591688 | 2619645 | 2610124 | 2607152 | 0.55 | cps |
| Dysprosium | 156-1 | 167 | 210 | 233 | 203 | 16.64 | cps |
| Dysprosium | 156-2 | 3 | 7 | 23 | 11 | 96.43 | cps |
| Erbium | 164-1 | 123 | 167 | 140 | 143 | 15.25 | cps |
| Erbium | 164-2 | 37 | 50 | 37 | 41 | 18.72 | cps |
| Gadolinium | 160-1 | 123 | 157 | 90 | 123 | 27.03 | cps |
| Gadolinium | 160-2 | 13 | 20 | 17 | 17 | 20.01 | cps |
| Holmium | 165-1 | 20808719 | 20581035 | 20637970 | 20675908 | 0.57 | cps |
| Holmium | 165-2 | 6534923 | 6575449 | 6485936 | 6532103 | 0.69 | cps |
| Indium | 115-1 | 16309522 | 16038421 | 16068709 | 16138884 | 0.92 | cps |
| Indium | 115-2 | 1365235 | 1378947 | 1381864 | 1375349 | 0.65 | cps |
| Iron | 54-2 | 346744 | 344288 | 347558 | 346196 | 0.49 | cps |
| Iron | 56-2 | 6339515 | 6390928 | 6321320 | 6350588 | 0.57 | cps |
| Iron | 57-2 | 156734 | 157035 | 156201 | 156657 | 0.27 | cps |
| Krypton | 83-1 | 263 | 303 | 220 | 262 | 15.90 | cps |
| Lead | 206-1 | 3704497 | 3801680 | 3748032 | 3751403 | 1.30 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3218431 | 3221582 | 3141539 | 3193851 | 1.42 | cps |
| Lead | 208-1 | 14514907 | 14810707 | 14604523 | 14643379 | 1.04 | cps |
| Lithium | 6-1 | 7556054 | 7252764 | 7432887 | 7413902 | 2.06 | cps |
| Magnesium | 24-2 | 1189372 | 1203052 | 1212261 | 1201562 | 0.96 | cps |
| Manganese | 55-2 | 667130 | 665803 | 667326 | 666753 | 0.12 | cps |
| Molybdenum | 94-1 | 2910849 | 3005718 | 2911690 | 2942752 | 1.85 | cps |
| Molybdenum | 95-1 | 4301342 | 4316458 | 4218045 | 4278615 | 1.24 | cps |
| Molybdenum | 96-1 | 4705375 | 4692972 | 4698877 | 4699074 | 0.13 | cps |
| Molybdenum | 97-1 | 2669178 | 2696189 | 2667114 | 2677493 | 0.61 | cps |
| Molybdenum | 98-1 | 6858357 | 6929595 | 6932663 | 6906871 | 0.61 | cps |
| Neodymium | 150-1 | 77 | 73 | 127 | 92 | 32.40 | cps |
| Neodymium | 150-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 90005 | 90677 | 90052 | 90245 | 0.42 | cps |
| Phosphorus | 31-2 | 2774 | 3087 | 2914 | 2925 | 5.37 | cps |
| Potassium | 39-2 | 312452 | 313571 | 314651 | 313558 | 0.35 | cps |
| Rhodium | 103-1 | 14903637 | 14669506 | 14852004 | 14808382 | 0.83 | cps |
| Rhodium | 103-2 | 5322813 | 5342154 | 5387958 | 5350975 | 0.63 | cps |
| Scandium | 45-1 | 10647223 | 10625834 | 10439565 | 10570874 | 1.08 | cps |
| Scandium | 45-2 | 184366 | 182989 | 182790 | 183382 | 0.47 | cps |
| Selenium | 82-1 | 12329 | 12853 | 12840 | 12674 | 2.36 | cps |
| Selenium | 77-2 | 173 | 210 | 190 | 191 | 9.60 | cps |
| Selenium | 78-2 | 640 | 720 | 623 | 661 | 7.82 | cps |
| Silicon | 28-1 | 1170052 | 1171124 | 1164189 | 1168455 | 0.32 | cps |
| Silver | 107-1 | 1089316 | 1089754 | 1096649 | 1091906 | 0.38 | cps |
| Silver | 109-1 | 1034800 | 1052768 | 1043563 | 1043710 | 0.86 | cps |
| Sodium | 23-2 | 2349817 | 2397796 | 2405859 | 2384490 | 1.27 | cps |
| Strontium | 86-1 | 271544 | 270835 | 270134 | 270838 | 0.26 | cps |
| Strontium | 88-1 | 2410179 | 2414751 | 2406107 | 2410346 | 0.18 | cps |
| Sulfur | 34-1 | 850008 | 844585 | 840403 | 844999 | 0.57 | cps |
| Terbium | 159-1 | 21490709 | 21178267 | 21023054 | 21230677 | 1.12 | cps |
| Terbium | 159-2 | 6226428 | 6262761 | 6222322 | 6237170 | 0.36 | cps |
| Thallium | 203-1 | 858876 | 878597 | 875274 | 870915 | 1.21 | cps |
| Thallium | 205-1 | 2133244 | 2132464 | 2172434 | 2146047 | 1.06 | cps |
| Tin | 118-1 | 692535 | 701098 | 700159 | 697931 | 0.67 | cps |
| Titanium | 47-1 | 1268812 | 1276069 | 1288188 | 1277690 | 0.77 | cps |
| Uranium | 238-1 | 2925307 | 2889464 | 2890129 | 2901633 | 0.71 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:11:58 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 128063 | 127488 | 125655 | 127069 | 0.99 | cps |
| Ytterbium | 172-1 | 93 | 107 | 110 | 103 | 8.54 | cps |
| Ytterbium | 172-2 | 40 | 50 | 53 | 48 | 14.52 | cps |
| Ytterbium | 176-1 | 6368 | 6442 | 6245 | 6352 | 1.57 | cps |
| Ytterbium | 176-2 | 1517 | 1640 | 1637 | 1598 | 4.40 | cps |
| Yttrium | 89-1 | 27626859 | 27006856 | 26922680 | 27185465 | 1.41 | cps |
| Yttrium | 89-2 | 1703513 | 1734378 | 1687292 | 1708394 | 1.40 | cps |
| Zinc | 66-2 | 266730 | 266070 | 269099 | 267300 | 0.60 | cps |
| Zirconium | 90-1 | 1487592 | 1512282 | 1492083 | 1497319 | 0.88 | cps |
| Zirconium | 91-1 | 320865 | 329555 | 325799 | 325406 | 1.34 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 154440 | 155120 | 154841 | 154800 | 0.22 | cps |
| Antimony | 121-1 | 2191182 | 2173691 | 2172950 | 2179274 | 0.47 | cps |
| Arsenic | 75-2 | 36721 | 36988 | 37149 | 36953 | 0.58 | cps |
| Barium | 135-1 | 2645811 | 2641562 | 2691543 | 2659639 | 1.04 | cps |
| Barium | 137-1 | 4467736 | 4611294 | 4498732 | 4525920 | 1.67 | cps |
| Beryllium | 9-1 | 683968 | 688060 | 689392 | 687140 | 0.41 | cps |
| Bismuth | 209-1 | 13265025 | 13219506 | 13088146 | 13190892 | 0.70 | cps |
| Bismuth | 209-2 | 4846478 | 4819631 | 4865973 | 4844027 | 0.48 | cps |
| Bromine | 81-1 | 3901 | 3861 | 3991 | 3917 | 1.70 | cps |
| Cadmium | 108-1 | 44167 | 44033 | 43572 | 43924 | 0.71 | cps |
| Cadmium | 106-1 | 69226 | 68820 | 69869 | 69305 | 0.76 | cps |
| Cadmium | 111-1 | 531645 | 540851 | 539395 | 537297 | 0.92 | cps |
| Calcium | 43-1 | 653566 | 658458 | 664813 | 658946 | 0.86 | cps |
| Calcium | 44-1 | 10694724 | 10763806 | 10678590 | 10712373 | 0.42 | cps |
| Carbon | 12-1 | 3568904 | 3600141 | 3608475 | 3592507 | 0.58 | cps |
| Carbon | 12-2 | 24177 | 24183 | 24637 | 24332 | 1.09 | cps |
| Chlorine | 35-1 | 127730 | 129358 | 129281 | 128790 | 0.71 | cps |
| Chlorine | 35-2 | 550 | 437 | 420 | 469 | 15.09 | cps |
| Chromium | 52-2 | 406849 | 405764 | 407534 | 406716 | 0.22 | cps |
| Cobalt | 59-2 | 785348 | 788507 | 783457 | 785770 | 0.32 | cps |
| Copper | 63-2 | 6278072 | 6260123 | 6210186 | 6249460 | 0.56 | cps |
| Dysprosium | 156-1 | 297 | 273 | 233 | 268 | 11.96 | cps |
| Dysprosium | 156-2 | 0 | 17 | 10 | 9 | 94.38 | cps |
| Erbium | 164-1 | 127 | 150 | 143 | 140 | 8.58 | cps |
| Erbium | 164-2 | 33 | 60 | 47 | 47 | 28.58 | cps |
| Gadolinium | 160-1 | 130 | 173 | 133 | 146 | 16.57 | cps |
| Gadolinium | 160-2 | 33 | 37 | 17 | 29 | 37.08 | cps |
| Holmium | 165-1 | 20665574 | 20655454 | 20567261 | 20629429 | 0.26 | cps |
| Holmium | 165-2 | 6614905 | 6506883 | 6606556 | 6576114 | 0.91 | cps |
| Indium | 115-1 | 16051284 | 15834460 | 15928018 | 15937921 | 0.68 | cps |
| Indium | 115-2 | 1367194 | 1367196 | 1362316 | 1365569 | 0.21 | cps |
| Iron | 54-2 | 845134 | 853505 | 848197 | 848945 | 0.50 | cps |
| Iron | 56-2 | 15588463 | 15591745 | 15533624 | 15571277 | 0.21 | cps |
| Iron | 57-2 | 383801 | 385971 | 386725 | 385499 | 0.39 | cps |
| Krypton | 83-1 | 270 | 267 | 297 | 278 | 5.92 | cps |
| Lead | 206-1 | 8902627 | 8945081 | 8979823 | 8942510 | 0.43 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 7744967 | 7683947 | 7787916 | 7738943 | 0.68 | cps |
| Lead | 208-1 | 35704779 | 35662100 | 35816200 | 35727693 | 0.22 | cps |
| Lithium | 6-1 | 7534394 | 7433388 | 7286078 | 7417953 | 1.68 | cps |
| Magnesium | 24-2 | 2909807 | 2928592 | 2950806 | 2929735 | 0.70 | cps |
| Manganese | 55-2 | 1689134 | 1699911 | 1661680 | 1683575 | 1.17 | cps |
| Molybdenum | 94-1 | 7208966 | 7126941 | 7213334 | 7183080 | 0.68 | cps |
| Molybdenum | 95-1 | 10610964 | 10616673 | 10565929 | 10597855 | 0.26 | cps |
| Molybdenum | 96-1 | 11601820 | 11514836 | 11528028 | 11548228 | 0.41 | cps |
| Molybdenum | 97-1 | 6536549 | 6540304 | 6480236 | 6519030 | 0.52 | cps |
| Molybdenum | 98-1 | 17090663 | 16976508 | 17271388 | 17112853 | 0.87 | cps |
| Neodymium | 150-1 | 130 | 210 | 213 | 184 | 25.58 | cps |
| Neodymium | 150-2 | 10 | 0 | 0 | 3 | 173.21 | cps |
| Nickel | 60-2 | 218976 | 220218 | 219494 | 219562 | 0.28 | cps |
| Phosphorus | 31-2 | 7332 | 7299 | 7432 | 7354 | 0.94 | cps |
| Potassium | 39-2 | 758554 | 755128 | 755929 | 756537 | 0.24 | cps |
| Rhodium | 103-1 | 14654109 | 14546289 | 14851517 | 14683971 | 1.05 | cps |
| Rhodium | 103-2 | 5339703 | 5322778 | 5279178 | 5313887 | 0.59 | cps |
| Scandium | 45-1 | 10434892 | 10510160 | 10430920 | 10458657 | 0.43 | cps |
| Scandium | 45-2 | 185004 | 183519 | 185959 | 184827 | 0.67 | cps |
| Selenium | 82-1 | 31012 | 30778 | 31142 | 30977 | 0.60 | cps |
| Selenium | 77-2 | 463 | 460 | 487 | 470 | 3.09 | cps |
| Selenium | 78-2 | 1537 | 1667 | 1627 | 1610 | 4.14 | cps |
| Silicon | 28-1 | 2145101 | 2115919 | 2142495 | 2134505 | 0.76 | cps |
| Silver | 107-1 | 2768892 | 2738971 | 2757157 | 2755007 | 0.55 | cps |
| Silver | 109-1 | 2623589 | 2637883 | 2638520 | 2633331 | 0.32 | cps |
| Sodium | 23-2 | 5717072 | 5679413 | 5746307 | 5714264 | 0.59 | cps |
| Strontium | 86-1 | 658443 | 663419 | 670289 | 664050 | 0.90 | cps |
| Strontium | 88-1 | 5842458 | 5881541 | 5960140 | 5894713 | 1.02 | cps |
| Sulfur | 34-1 | 937034 | 966793 | 934475 | 946101 | 1.90 | cps |
| Terbium | 159-1 | 21272376 | 20977451 | 21016563 | 21088796 | 0.76 | cps |
| Terbium | 159-2 | 6301849 | 6242359 | 6179182 | 6241130 | 0.98 | cps |
| Thallium | 203-1 | 2180431 | 2212830 | 2203345 | 2198869 | 0.76 | cps |
| Thallium | 205-1 | 5307194 | 5263150 | 5227958 | 5266101 | 0.75 | cps |
| Tin | 118-1 | 1763345 | 1733193 | 1733849 | 1743462 | 0.99 | cps |
| Titanium | 47-1 | 3096615 | 3128598 | 3147248 | 3124154 | 0.82 | cps |
| Uranium | 238-1 | 7051129 | 7114458 | 7130242 | 7098610 | 0.59 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:15:02 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 312258 | 310936 | 315316 | 312837 | 0.72 | cps |
| Ytterbium | 172-1 | 110 | 183 | 140 | 144 | 25.53 | cps |
| Ytterbium | 172-2 | 53 | 60 | 50 | 54 | 9.35 | cps |
| Ytterbium | 176-1 | 12089 | 12473 | 12079 | 12214 | 1.84 | cps |
| Ytterbium | 176-2 | 3507 | 3524 | 3477 | 3503 | 0.68 | cps |
| Yttrium | 89-1 | 27252918 | 26872171 | 27229779 | 27118289 | 0.79 | cps |
| Yttrium | 89-2 | 1704380 | 1715493 | 1725344 | 1715072 | 0.61 | cps |
| Zinc | 66-2 | 648243 | 652368 | 653929 | 651513 | 0.45 | cps |
| Zirconium | 90-1 | 3661290 | 3697553 | 3668607 | 3675817 | 0.52 | cps |
| Zirconium | 91-1 | 794656 | 798387 | 798881 | 797308 | 0.29 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 312364 | 309106 | 309287 | 310252 | 0.59 | cps |
| Antimony | 121-1 | 4252500 | 4266716 | 4313114 | 4277443 | 0.74 | cps |
| Arsenic | 75-2 | 73845 | 75042 | 73658 | 74182 | 1.01 | cps |
| Barium | 135-1 | 5151990 | 5169594 | 5212134 | 5177906 | 0.60 | cps |
| Barium | 137-1 | 8784702 | 8937141 | 8955277 | 8892373 | 1.05 | cps |
| Beryllium | 9-1 | 1361679 | 1373684 | 1369123 | 1368162 | 0.44 | cps |
| Bismuth | 209-1 | 13313163 | 12990345 | 12819564 | 13041024 | 1.92 | cps |
| Bismuth | 209-2 | 4764676 | 4822292 | 4959287 | 4848752 | 2.06 | cps |
| Bromine | 81-1 | 3901 | 3927 | 4081 | 3969 | 2.45 | cps |
| Cadmium | 108-1 | 84879 | 86892 | 85231 | 85667 | 1.25 | cps |
| Cadmium | 106-1 | 126049 | 128057 | 127552 | 127219 | 0.82 | cps |
| Cadmium | 111-1 | 1032022 | 1051711 | 1052785 | 1045506 | 1.12 | cps |
| Calcium | 43-1 | 1299438 | 1340927 | 1315668 | 1318677 | 1.59 | cps |
| Calcium | 44-1 | 20692978 | 21459617 | 21121501 | 21091365 | 1.82 | cps |
| Carbon | 12-1 | 3662095 | 3721340 | 3760407 | 3714614 | 1.33 | cps |
| Carbon | 12-2 | 26460 | 25709 | 26370 | 26180 | 1.57 | cps |
| Chlorine | 35-1 | 130946 | 133482 | 133828 | 132752 | 1.19 | cps |
| Chlorine | 35-2 | 447 | 480 | 497 | 474 | 5.37 | cps |
| Chromium | 52-2 | 800262 | 801017 | 798068 | 799782 | 0.19 | cps |
| Cobalt | 59-2 | 1597019 | 1575898 | 1577618 | 1583512 | 0.74 | cps |
| Copper | 63-2 | 12339749 | 12538734 | 12356776 | 12411753 | 0.89 | cps |
| Dysprosium | 156-1 | 310 | 327 | 307 | 314 | 3.41 | cps |
| Dysprosium | 156-2 | 30 | 30 | 10 | 23 | 49.49 | cps |
| Erbium | 164-1 | 133 | 133 | 150 | 139 | 6.93 | cps |
| Erbium | 164-2 | 67 | 47 | 50 | 54 | 19.68 | cps |
| Gadolinium | 160-1 | 167 | 140 | 190 | 166 | 15.11 | cps |
| Gadolinium | 160-2 | 50 | 23 | 40 | 38 | 35.67 | cps |
| Holmium | 165-1 | 21209266 | 20709873 | 20287729 | 20735622 | 2.22 | cps |
| Holmium | 165-2 | 6530785 | 6320486 | 6574396 | 6475222 | 2.10 | cps |
| Indium | 115-1 | 16271167 | 15630076 | 15765957 | 15889066 | 2.13 | cps |
| Indium | 115-2 | 1338590 | 1319639 | 1388900 | 1349043 | 2.65 | cps |
| Iron | 54-2 | 1734082 | 1696726 | 1713286 | 1714698 | 1.09 | cps |
| Iron | 56-2 | 30837090 | 31015804 | 30655718 | 30836204 | 0.58 | cps |
| Iron | 57-2 | 755760 | 760624 | 760940 | 759108 | 0.38 | cps |
| Krypton | 83-1 | 293 | 253 | 247 | 264 | 9.54 | cps |
| Lead | 206-1 | 17696720 | 17716294 | 17720760 | 17711258 | 0.07 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 14993644 | 15185476 | 15107397 | 15095506 | 0.64 | cps |
| Lead | 208-1 | 69383994 | 70318296 | 69855043 | 69852444 | 0.67 | cps |
| Lithium | 6-1 | 7487475 | 7325423 | 7181148 | 7331349 | 2.09 | cps |
| Magnesium | 24-2 | 5932262 | 5834666 | 5781024 | 5849317 | 1.31 | cps |
| Manganese | 55-2 | 3329841 | 3314469 | 3345719 | 3330010 | 0.47 | cps |
| Molybdenum | 94-1 | 14283499 | 14390014 | 14309477 | 14327663 | 0.39 | cps |
| Molybdenum | 95-1 | 20934362 | 21087313 | 20820556 | 20947410 | 0.64 | cps |
| Molybdenum | 96-1 | 22827276 | 23123186 | 22843183 | 22931215 | 0.73 | cps |
| Molybdenum | 97-1 | 12877961 | 12884673 | 12996096 | 12919577 | 0.51 | cps |
| Molybdenum | 98-1 | 33710703 | 34181160 | 34180223 | 34024029 | 0.80 | cps |
| Neodymium | 150-1 | 333 | 370 | 323 | 342 | 7.18 | cps |
| Neodymium | 150-2 | 7 | 20 | 10 | 12 | 56.76 | cps |
| Nickel | 60-2 | 429757 | 432499 | 429113 | 430456 | 0.42 | cps |
| Phosphorus | 31-2 | 14457 | 14641 | 14140 | 14413 | 1.76 | cps |
| Potassium | 39-2 | 1530442 | 1542048 | 1528991 | 1533827 | 0.47 | cps |
| Rhodium | 103-1 | 14729377 | 14394934 | 14141878 | 14422063 | 2.04 | cps |
| Rhodium | 103-2 | 5212580 | 5156799 | 5383180 | 5250853 | 2.25 | cps |
| Scandium | 45-1 | 10608094 | 10492659 | 10346866 | 10482540 | 1.25 | cps |
| Scandium | 45-2 | 184421 | 180803 | 188250 | 184491 | 2.02 | cps |
| Selenium | 82-1 | 61482 | 63769 | 62068 | 62439 | 1.90 | cps |
| Selenium | 77-2 | 987 | 990 | 840 | 939 | 9.12 | cps |
| Selenium | 78-2 | 3174 | 3124 | 3254 | 3184 | 2.06 | cps |
| Silicon | 28-1 | 3659628 | 3701099 | 3757618 | 3706115 | 1.33 | cps |
| Silver | 107-1 | 5386278 | 5439302 | 5423455 | 5416345 | 0.50 | cps |
| Silver | 109-1 | 5093295 | 5139964 | 5144134 | 5125797 | 0.55 | cps |
| Sodium | 23-2 | 11551552 | 11492227 | 11321819 | 11455199 | 1.04 | cps |
| Strontium | 86-1 | 1300823 | 1308379 | 1319779 | 1309661 | 0.73 | cps |
| Strontium | 88-1 | 11714221 | 11751618 | 11674771 | 11713537 | 0.33 | cps |
| Sulfur | 34-1 | 1093495 | 1108879 | 1109954 | 1104109 | 0.83 | cps |
| Terbium | 159-1 | 21356366 | 20668220 | 21018412 | 21014332 | 1.64 | cps |
| Terbium | 159-2 | 6156864 | 6143251 | 6464572 | 6254896 | 2.91 | cps |
| Thallium | 203-1 | 4367558 | 4432607 | 4371154 | 4390439 | 0.83 | cps |
| Thallium | 205-1 | 10210487 | 10306705 | 10183173 | 10233455 | 0.63 | cps |
| Tin | 118-1 | 3437706 | 3398946 | 3475028 | 3437227 | 1.11 | cps |
| Titanium | 47-1 | 6089271 | 6158833 | 6003403 | 6083836 | 1.28 | cps |
| Uranium | 238-1 | 13838342 | 14022877 | 13713204 | 13858141 | 1.12 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:18:01 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 624364 | 623205 | 615548 | 621039 | 0.77 | cps |
| Ytterbium | 172-1 | 157 | 153 | 137 | 149 | 7.20 | cps |
| Ytterbium | 172-2 | 93 | 60 | 73 | 76 | 22.20 | cps |
| Ytterbium | 176-1 | 22503 | 21892 | 22172 | 22189 | 1.38 | cps |
| Ytterbium | 176-2 | 6512 | 6575 | 6708 | 6598 | 1.52 | cps |
| Yttrium | 89-1 | 27551317 | 26654479 | 26523855 | 26909883 | 2.08 | cps |
| Yttrium | 89-2 | 1691862 | 1643530 | 1759845 | 1698412 | 3.44 | cps |
| Zinc | 66-2 | 1286808 | 1288963 | 1283248 | 1286340 | 0.22 | cps |
| Zirconium | 90-1 | 7264335 | 7319011 | 7257533 | 7280293 | 0.46 | cps |
| Zirconium | 91-1 | 1635766 | 1627491 | 1646655 | 1636637 | 0.59 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 607203 | 609205 | 609822 | 608743 | 0.22 | cps |
| Antimony | 121-1 | 8463293 | 8562131 | 8584291 | 8536571 | 0.75 | cps |
| Arsenic | 75-2 | 145118 | 148051 | 146054 | 146408 | 1.02 | cps |
| Barium | 135-1 | 10320615 | 10355662 | 10301380 | 10325886 | 0.27 | cps |
| Barium | 137-1 | 17851688 | 17651255 | 17701861 | 17734935 | 0.59 | cps |
| Beryllium | 9-1 | 2727373 | 2678639 | 2679451 | 2695154 | 1.04 | cps |
| Bismuth | 209-1 | 12942676 | 12583387 | 12869207 | 12798423 | 1.48 | cps |
| Bismuth | 209-2 | 4657111 | 4725707 | 4640494 | 4674437 | 0.97 | cps |
| Bromine | 81-1 | 3991 | 3884 | 3861 | 3912 | 1.77 | cps |
| Cadmium | 108-1 | 169143 | 167884 | 170385 | 169137 | 0.74 | cps |
| Cadmium | 106-1 | 244958 | 246018 | 243566 | 244848 | 0.50 | cps |
| Cadmium | 111-1 | 2086245 | 2174443 | 2085266 | 2115318 | 2.42 | cps |
| Calcium | 43-1 | 2620377 | 2650772 | 2638075 | 2636408 | 0.58 | cps |
| Calcium | 44-1 | 42570386 | 41686527 | 42918814 | 42391909 | 1.50 | cps |
| Carbon | 12-1 | 3906252 | 3971130 | 4039518 | 3972300 | 1.68 | cps |
| Carbon | 12-2 | 28985 | 29075 | 28541 | 28867 | 0.99 | cps |
| Chlorine | 35-1 | 142735 | 143116 | 146082 | 143977 | 1.27 | cps |
| Chlorine | 35-2 | 553 | 570 | 547 | 557 | 2.16 | cps |
| Chromium | 52-2 | 1662985 | 1638207 | 1615854 | 1639015 | 1.44 | cps |
| Cobalt | 59-2 | 3111036 | 3125440 | 3158972 | 3131816 | 0.79 | cps |
| Copper | 63-2 | 24086260 | 24076182 | 24014500 | 24058981 | 0.16 | cps |
| Dysprosium | 156-1 | 353 | 377 | 333 | 354 | 6.12 | cps |
| Dysprosium | 156-2 | 27 | 23 | 33 | 28 | 18.33 | cps |
| Erbium | 164-1 | 200 | 160 | 187 | 182 | 11.18 | cps |
| Erbium | 164-2 | 53 | 63 | 50 | 56 | 12.49 | cps |
| Gadolinium | 160-1 | 220 | 217 | 173 | 203 | 12.80 | cps |
| Gadolinium | 160-2 | 60 | 53 | 50 | 54 | 9.35 | cps |
| Holmium | 165-1 | 20759480 | 20549427 | 20493392 | 20600766 | 0.68 | cps |
| Holmium | 165-2 | 6442398 | 6488947 | 6441124 | 6457490 | 0.42 | cps |
| Indium | 115-1 | 15762101 | 15568416 | 15213068 | 15514529 | 1.79 | cps |
| Indium | 115-2 | 1302560 | 1305982 | 1309783 | 1306109 | 0.28 | cps |
| Iron | 54-2 | 3420010 | 3368823 | 3374623 | 3387819 | 0.83 | cps |
| Iron | 56-2 | 60885091 | 61186556 | 60281579 | 60784409 | 0.76 | cps |
| Iron | 57-2 | 1552134 | 1580667 | 1555214 | 1562672 | 1.00 | cps |
| Krypton | 83-1 | 293 | 290 | 290 | 291 | 0.66 | cps |
| Lead | 206-1 | 35462491 | 35373334 | 35498237 | 35444687 | 0.18 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 30510363 | 30121232 | 30287233 | 30306276 | 0.64 | cps |
| Lead | 208-1 | 140553358 | 138932536 | 139873282 | 139786392 | 0.58 | cps |
| Lithium | 6-1 | 7287956 | 7263823 | 7150297 | 7234025 | 1.02 | cps |
| Magnesium | 24-2 | 11329883 | 11374769 | 11439855 | 11381502 | 0.49 | cps |
| Manganese | 55-2 | 6547180 | 6534003 | 6410631 | 6497271 | 1.16 | cps |
| Molybdenum | 94-1 | 29031846 | 28887644 | 28935524 | 28951671 | 0.25 | cps |
| Molybdenum | 95-1 | 42017699 | 41907868 | 42360721 | 42095429 | 0.56 | cps |
| Molybdenum | 96-1 | 45754286 | 45523233 | 46404339 | 45893953 | 1.00 | cps |
| Molybdenum | 97-1 | 25840026 | 25689890 | 25754914 | 25761610 | 0.29 | cps |
| Molybdenum | 98-1 | 68871937 | 68083521 | 67683009 | 68212822 | 0.89 | cps |
| Neodymium | 150-1 | 650 | 697 | 603 | 650 | 7.18 | cps |
| Neodymium | 150-2 | 13 | 20 | 17 | 17 | 20.01 | cps |
| Nickel | 60-2 | 832191 | 843350 | 837122 | 837554 | 0.67 | cps |
| Phosphorus | 31-2 | 29226 | 29507 | 29407 | 29380 | 0.48 | cps |
| Potassium | 39-2 | 3046379 | 3013239 | 3031221 | 3030280 | 0.55 | cps |
| Rhodium | 103-1 | 14460019 | 14043339 | 13936805 | 14146721 | 1.95 | cps |
| Rhodium | 103-2 | 5084232 | 5127604 | 5014711 | 5075516 | 1.12 | cps |
| Scandium | 45-1 | 10478442 | 10064474 | 10260609 | 10267841 | 2.02 | cps |
| Scandium | 45-2 | 180549 | 182793 | 182689 | 182010 | 0.70 | cps |
| Selenium | 82-1 | 122166 | 123786 | 121032 | 122328 | 1.13 | cps |
| Selenium | 77-2 | 1803 | 1800 | 1783 | 1796 | 0.60 | cps |
| Selenium | 78-2 | 6031 | 5898 | 6121 | 6017 | 1.87 | cps |
| Silicon | 28-1 | 6755868 | 6861979 | 6892155 | 6836667 | 1.05 | cps |
| Silver | 107-1 | 10490453 | 10613701 | 10691255 | 10598470 | 0.96 | cps |
| Silver | 109-1 | 9952605 | 10168089 | 10121820 | 10080838 | 1.13 | cps |
| Sodium | 23-2 | 22758015 | 22645304 | 22807711 | 22737010 | 0.37 | cps |
| Strontium | 86-1 | 2675469 | 2697756 | 2684703 | 2685976 | 0.42 | cps |
| Strontium | 88-1 | 23186521 | 23113263 | 23295741 | 23198509 | 0.40 | cps |
| Sulfur | 34-1 | 1440525 | 1437112 | 1428745 | 1435461 | 0.42 | cps |
| Terbium | 159-1 | 21168585 | 21159863 | 21144342 | 21157597 | 0.06 | cps |
| Terbium | 159-2 | 6117703 | 6281247 | 6175733 | 6191561 | 1.34 | cps |
| Thallium | 203-1 | 8515575 | 8559202 | 8675637 | 8583471 | 0.96 | cps |
| Thallium | 205-1 | 20328353 | 20635199 | 20666248 | 20543267 | 0.91 | cps |
| Tin | 118-1 | 6721864 | 6795603 | 6754376 | 6757281 | 0.55 | cps |
| Titanium | 47-1 | 12351255 | 12146266 | 12237509 | 12245010 | 0.84 | cps |
| Uranium | 238-1 | 27733745 | 27946810 | 27631951 | 27770835 | 0.58 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:20:51 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1244265 | 1234892 | 1230532 | 1236563 | 0.57 | cps |
| Ytterbium | 172-1 | 197 | 253 | 240 | 230 | 12.88 | cps |
| Ytterbium | 172-2 | 47 | 67 | 63 | 59 | 18.19 | cps |
| Ytterbium | 176-1 | 42602 | 40863 | 42337 | 41934 | 2.23 | cps |
| Ytterbium | 176-2 | 12960 | 13117 | 13343 | 13140 | 1.47 | cps |
| Yttrium | 89-1 | 27132938 | 26555681 | 26802240 | 26830286 | 1.08 | cps |
| Yttrium | 89-2 | 1687718 | 1664263 | 1658404 | 1670128 | 0.93 | cps |
| Zinc | 66-2 | 2576205 | 2610806 | 2609684 | 2598898 | 0.76 | cps |
| Zirconium | 90-1 | 14580628 | 14517316 | 14898375 | 14665440 | 1.39 | cps |
| Zirconium | 91-1 | 3252433 | 3246713 | 3362852 | 3287332 | 1.99 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1253403 | 1259425 | 1229557 | 1247462 | 1.27 | cps |
| Antimony | 121-1 | 16472252 | 16591189 | 16704403 | 16589281 | 0.70 | cps |
| Arsenic | 75-2 | 290723 | 290754 | 286900 | 289459 | 0.77 | cps |
| Barium | 135-1 | 19996131 | 19972217 | 20286261 | 20084870 | 0.87 | cps |
| Barium | 137-1 | 34975251 | 34631722 | 34680037 | 34762337 | 0.53 | cps |
| Beryllium | 9-1 | 5173412 | 5268338 | 5238123 | 5226624 | 0.93 | cps |
| Bismuth | 209-1 | 12406000 | 12609147 | 12411609 | 12475585 | 0.93 | cps |
| Bismuth | 209-2 | 4678991 | 4655771 | 4639686 | 4658149 | 0.42 | cps |
| Bromine | 81-1 | 3901 | 4044 | 4171 | 4038 | 3.35 | cps |
| Cadmium | 108-1 | 324564 | 330107 | 329015 | 327896 | 0.90 | cps |
| Cadmium | 106-1 | 463915 | 469838 | 467456 | 467070 | 0.64 | cps |
| Cadmium | 111-1 | 4039130 | 4062925 | 4092556 | 4064871 | 0.66 | cps |
| Calcium | 43-1 | 5099674 | 5152446 | 5099255 | 5117125 | 0.60 | cps |
| Calcium | 44-1 | 82942632 | 82818747 | 83246524 | 83002634 | 0.27 | cps |
| Carbon | 12-1 | 4366607 | 4520629 | 4641762 | 4509666 | 3.06 | cps |
| Carbon | 12-2 | 34110 | 34340 | 35493 | 34647 | 2.14 | cps |
| Chlorine | 35-1 | 161836 | 165790 | 167757 | 165128 | 1.83 | cps |
| Chlorine | 35-2 | 630 | 583 | 677 | 630 | 7.41 | cps |
| Chromium | 52-2 | 3284374 | 3248647 | 3261141 | 3264721 | 0.56 | cps |
| Cobalt | 59-2 | 6100678 | 5998346 | 6124696 | 6074573 | 1.10 | cps |
| Copper | 63-2 | 47449666 | 46659593 | 46918129 | 47009129 | 0.86 | cps |
| Dysprosium | 156-1 | 490 | 547 | 537 | 524 | 5.77 | cps |
| Dysprosium | 156-2 | 53 | 37 | 43 | 44 | 18.87 | cps |
| Erbium | 164-1 | 273 | 287 | 253 | 271 | 6.19 | cps |
| Erbium | 164-2 | 100 | 77 | 117 | 98 | 20.55 | cps |
| Gadolinium | 160-1 | 257 | 250 | 230 | 246 | 5.65 | cps |
| Gadolinium | 160-2 | 100 | 43 | 67 | 70 | 40.69 | cps |
| Holmium | 165-1 | 20252447 | 20507497 | 20155254 | 20305066 | 0.90 | cps |
| Holmium | 165-2 | 6470568 | 6469976 | 6408374 | 6449639 | 0.55 | cps |
| Indium | 115-1 | 14918787 | 15100736 | 14984400 | 15001307 | 0.61 | cps |
| Indium | 115-2 | 1276170 | 1281772 | 1272294 | 1276746 | 0.37 | cps |
| Iron | 54-2 | 6650436 | 6660262 | 6656094 | 6655597 | 0.07 | cps |
| Iron | 56-2 | 120342328 | 119255895 | 120285395 | 119961206 | 0.51 | cps |
| Iron | 57-2 | 3063447 | 3031906 | 3126224 | 3073859 | 1.56 | cps |
| Krypton | 83-1 | 333 | 310 | 310 | 318 | 4.24 | cps |
| Lead | 206-1 | 67793259 | 68327722 | 68119762 | 68080248 | 0.40 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 58822957 | 58852269 | 58491642 | 58722290 | 0.34 | cps |
| Lead | 208-1 | 270014228 | 271731893 | 270174799 | 270640307 | 0.35 | cps |
| Lithium | 6-1 | 7034089 | 7203445 | 7130692 | 7122742 | 1.19 | cps |
| Magnesium | 24-2 | 22507369 | 22281817 | 22691778 | 22493655 | 0.91 | cps |
| Manganese | 55-2 | 12965757 | 12842416 | 12992662 | 12933612 | 0.62 | cps |
| Molybdenum | 94-1 | 56381386 | 56842971 | 57035257 | 56753205 | 0.59 | cps |
| Molybdenum | 95-1 | 82222499 | 82734274 | 83445289 | 82800687 | 0.74 | cps |
| Molybdenum | 96-1 | 89213772 | 90138465 | 91652042 | 90334760 | 1.36 | cps |
| Molybdenum | 97-1 | 50615808 | 50990074 | 51667063 | 51090981 | 1.04 | cps |
| Molybdenum | 98-1 | 133276021 | 133777898 | 133875238 | 133643052 | 0.24 | cps |
| Neodymium | 150-1 | 1267 | 1370 | 1197 | 1278 | 6.82 | cps |
| Neodymium | 150-2 | 27 | 43 | 53 | 41 | 32.76 | cps |
| Nickel | 60-2 | 1732698 | 1708735 | 1699299 | 1713577 | 1.00 | cps |
| Phosphorus | 31-2 | 57192 | 57068 | 56506 | 56922 | 0.64 | cps |
| Potassium | 39-2 | 5888830 | 5908282 | 5845228 | 5880780 | 0.55 | cps |
| Rhodium | 103-1 | 13592335 | 13824641 | 13668142 | 13695039 | 0.87 | cps |
| Rhodium | 103-2 | 5052150 | 4924117 | 4966561 | 4980942 | 1.31 | cps |
| Scandium | 45-1 | 10248553 | 10077105 | 10354024 | 10226561 | 1.37 | cps |
| Scandium | 45-2 | 183829 | 183252 | 184454 | 183845 | 0.33 | cps |
| Selenium | 82-1 | 238742 | 241081 | 241701 | 240508 | 0.65 | cps |
| Selenium | 77-2 | 3641 | 3387 | 3510 | 3513 | 3.61 | cps |
| Selenium | 78-2 | 12105 | 11969 | 12095 | 12056 | 0.63 | cps |
| Silicon | 28-1 | 12650303 | 12745443 | 12758371 | 12718039 | 0.46 | cps |
| Silver | 107-1 | 20410596 | 20350261 | 20440115 | 20400324 | 0.22 | cps |
| Silver | 109-1 | 19255426 | 19655148 | 19510751 | 19473775 | 1.04 | cps |
| Sodium | 23-2 | 44782258 | 44720581 | 44903584 | 44802141 | 0.21 | cps |
| Strontium | 86-1 | 5292860 | 5195921 | 5233670 | 5240817 | 0.93 | cps |
| Strontium | 88-1 | 46179984 | 45946558 | 45795083 | 45973875 | 0.42 | cps |
| Sulfur | 34-1 | 2077008 | 2060966 | 2065786 | 2067920 | 0.40 | cps |
| Terbium | 159-1 | 20631501 | 20772228 | 20932101 | 20778610 | 0.72 | cps |
| Terbium | 159-2 | 6240808 | 6136736 | 6076717 | 6151420 | 1.35 | cps |
| Thallium | 203-1 | 16451770 | 16523171 | 16519770 | 16498237 | 0.24 | cps |
| Thallium | 205-1 | 39217547 | 39974092 | 39757666 | 39649768 | 0.98 | cps |
| Tin | 118-1 | 13152923 | 13382500 | 13291741 | 13275721 | 0.87 | cps |
| Titanium | 47-1 | 24214779 | 23944945 | 24010863 | 24056862 | 0.58 | cps |
| Uranium | 238-1 | 54415436 | 55262309 | 55113348 | 54930364 | 0.82 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:23:38 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2529206 | 2531372 | 2481206 | 2513928 | 1.13 | cps |
| Ytterbium | 172-1 | 297 | 367 | 277 | 313 | 15.08 | cps |
| Ytterbium | 172-2 | 137 | 127 | 120 | 128 | 6.57 | cps |
| Ytterbium | 176-1 | 81700 | 81553 | 80808 | 81354 | 0.59 | cps |
| Ytterbium | 176-2 | 25899 | 25735 | 25852 | 25829 | 0.33 | cps |
| Yttrium | 89-1 | 26715645 | 26280949 | 26391853 | 26462815 | 0.85 | cps |
| Yttrium | 89-2 | 1723020 | 1679193 | 1682955 | 1695056 | 1.43 | cps |
| Zinc | 66-2 | 5022769 | 5018198 | 4968367 | 5003111 | 0.60 | cps |
| Zirconium | 90-1 | 28473997 | 28393913 | 28533190 | 28467033 | 0.25 | cps |
| Zirconium | 91-1 | 6384881 | 6356800 | 6485913 | 6409198 | 1.06 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5997963 | 5929553 | 5935001 | 5954172 | 0.64 | cps |
| Antimony | 121-1 | 14071 | 13460 | 13283 | 13605 | 3.04 | cps |
| Arsenic | 75-2 | 143 | 170 | 170 | 161 | 9.55 | cps |
| Barium | 135-1 | 7749 | 7692 | 7405 | 7616 | 2.42 | cps |
| Barium | 137-1 | 13600 | 12990 | 13006 | 13199 | 2.64 | cps |
| Beryllium | 9-1 | 2172 | 1882 | 1772 | 1942 | 10.64 | cps |
| Bismuth | 209-1 | 10846868 | 10800313 | 10894732 | 10847304 | 0.44 | cps |
| Bismuth | 209-2 | 4114555 | 4113727 | 4044323 | 4090869 | 0.99 | cps |
| Bromine | 81-1 | 4161 | 4291 | 4341 | 4264 | 2.18 | cps |
| Cadmium | 108-1 | 297 | 300 | 197 | 264 | 22.21 | cps |
| Cadmium | 106-1 | 8129 | 7876 | 7689 | 7898 | 2.80 | cps |
| Cadmium | 111-1 | 6329 | 6013 | 5908 | 6083 | 3.61 | cps |
| Calcium | 43-1 | 23143771 | 23365488 | 23513175 | 23340811 | 0.80 | cps |
| Calcium | 44-1 | 380211594 | 379181701 | 382738954 | 380710750 | 0.48 | cps |
| Carbon | 12-1 | 3965885 | 4095558 | 4147394 | 4069612 | 2.30 | cps |
| Carbon | 12-2 | 38413 | 38300 | 38617 | 38443 | 0.42 | cps |
| Chlorine | 35-1 | 128061 | 124644 | 124674 | 125793 | 1.56 | cps |
| Chlorine | 35-2 | 530 | 417 | 470 | 472 | 12.01 | cps |
| Chromium | 52-2 | 10574 | 10157 | 10264 | 10332 | 2.10 | cps |
| Cobalt | 59-2 | 12559 | 12856 | 12736 | 12717 | 1.17 | cps |
| Copper | 63-2 | 11171 | 11501 | 10858 | 11177 | 2.88 | cps |
| Dysprosium | 156-1 | 710 | 743 | 637 | 697 | 7.83 | cps |
| Dysprosium | 156-2 | 190 | 220 | 180 | 197 | 10.58 | cps |
| Erbium | 164-1 | 747 | 683 | 770 | 733 | 6.12 | cps |
| Erbium | 164-2 | 263 | 210 | 203 | 226 | 14.58 | cps |
| Gadolinium | 160-1 | 597 | 630 | 653 | 627 | 4.54 | cps |
| Gadolinium | 160-2 | 213 | 250 | 237 | 233 | 7.95 | cps |
| Holmium | 165-1 | 19232303 | 18871630 | 19022875 | 19042269 | 0.95 | cps |
| Holmium | 165-2 | 6129933 | 6094578 | 6086617 | 6103709 | 0.38 | cps |
| Indium | 115-1 | 14053919 | 14057400 | 13678483 | 13929934 | 1.56 | cps |
| Indium | 115-2 | 1231167 | 1247569 | 1202890 | 1227209 | 1.84 | cps |
| Iron | 54-2 | 30519369 | 30485153 | 30561177 | 30521900 | 0.12 | cps |
| Iron | 56-2 | 566999965 | 569142645 | 551400818 | 562514476 | 1.72 | cps |
| Iron | 57-2 | 14176053 | 13862700 | 14073561 | 14037438 | 1.14 | cps |
| Krypton | 83-1 | 367 | 377 | 330 | 358 | 6.87 | cps |
| Lead | 206-1 | 14862 | 14618 | 14345 | 14608 | 1.77 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 12766 | 12586 | 11882 | 12412 | 3.76 | cps |
| Lead | 208-1 | 59731 | 58038 | 55537 | 57769 | 3.65 | cps |
| Lithium | 6-1 | 6501263 | 6605274 | 6406319 | 6504285 | 1.53 | cps |
| Magnesium | 24-2 | 107258228 | 107353318 | 105845688 | 106819078 | 0.79 | cps |
| Manganese | 55-2 | 5738 | 5955 | 5911 | 5868 | 1.95 | cps |
| Molybdenum | 94-1 | 40154 | 40505 | 40037 | 40232 | 0.61 | cps |
| Molybdenum | 95-1 | 41793 | 40756 | 41482 | 41344 | 1.29 | cps |
| Molybdenum | 96-1 | 47166 | 48548 | 47601 | 47772 | 1.48 | cps |
| Molybdenum | 97-1 | 25403 | 25891 | 25200 | 25498 | 1.39 | cps |
| Molybdenum | 98-1 | 65755 | 65557 | 65031 | 65448 | 0.57 | cps |
| Neodymium | 150-1 | 377 | 387 | 357 | 373 | 4.09 | cps |
| Neodymium | 150-2 | 90 | 53 | 67 | 70 | 26.51 | cps |
| Nickel | 60-2 | 6528 | 6672 | 6815 | 6672 | 2.15 | cps |
| Phosphorus | 31-2 | 103 | 93 | 70 | 89 | 19.24 | cps |
| Potassium | 39-2 | 28639990 | 28664270 | 29339885 | 28881381 | 1.38 | cps |
| Rhodium | 103-1 | 12204182 | 12400409 | 11983816 | 12196136 | 1.71 | cps |
| Rhodium | 103-2 | 4457509 | 4488489 | 4390386 | 4445462 | 1.13 | cps |
| Scandium | 45-1 | 9586493 | 9772201 | 9497822 | 9618839 | 1.46 | cps |
| Scandium | 45-2 | 176300 | 175794 | 172812 | 174969 | 1.08 | cps |
| Selenium | 82-1 | -27 | -60 | -7 | -31 | -86.60 | cps |
| Selenium | 77-2 | 10 | 7 | 0 | 6 | 91.64 | cps |
| Selenium | 78-2 | 23 | 17 | 7 | 16 | 53.90 | cps |
| Silicon | 28-1 | 684150 | 668266 | 658579 | 670332 | 1.93 | cps |
| Silver | 107-1 | 3537 | 3687 | 3504 | 3576 | 2.73 | cps |
| Silver | 109-1 | 3584 | 3340 | 3007 | 3310 | 8.75 | cps |
| Sodium | 23-2 | 204932184 | 205863817 | 205574984 | 205456995 | 0.23 | cps |
| Strontium | 86-1 | 16333 | 15759 | 15806 | 15966 | 2.00 | cps |
| Strontium | 88-1 | 136805 | 136295 | 135725 | 136275 | 0.40 | cps |
| Sulfur | 34-1 | 682056 | 684087 | 682100 | 682748 | 0.17 | cps |
| Terbium | 159-1 | 19117023 | 19123370 | 19102300 | 19114231 | 0.06 | cps |
| Terbium | 159-2 | 5916969 | 5920016 | 5738151 | 5858379 | 1.78 | cps |
| Thallium | 203-1 | 1523 | 1537 | 1383 | 1481 | 5.73 | cps |
| Thallium | 205-1 | 4134 | 3450 | 3307 | 3631 | 12.17 | cps |
| Tin | 118-1 | 4324 | 4231 | 3764 | 4106 | 7.31 | cps |
| Titanium | 47-1 | 4224 | 4561 | 4504 | 4430 | 4.07 | cps |
| Uranium | 238-1 | 2630 | 2424 | 2204 | 2419 | 8.82 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 12:26:23 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 683 | 763 | 717 | 721 | 5.57 | cps |
| Ytterbium | 172-1 | 837 | 813 | 937 | 862 | 7.60 | cps |
| Ytterbium | 172-2 | 290 | 360 | 347 | 332 | 11.19 | cps |
| Ytterbium | 176-1 | 2664 | 2574 | 2674 | 2637 | 2.09 | cps |
| Ytterbium | 176-2 | 563 | 517 | 503 | 528 | 5.97 | cps |
| Yttrium | 89-1 | 25019185 | 24974695 | 24521135 | 24838339 | 1.11 | cps |
| Yttrium | 89-2 | 1658061 | 1631685 | 1582599 | 1624115 | 2.36 | cps |
| Zinc | 66-2 | 2640 | 2800 | 2870 | 2770 | 4.26 | cps |
| Zirconium | 90-1 | 46524 | 46591 | 45601 | 46239 | 1.20 | cps |
| Zirconium | 91-1 | 10447 | 10241 | 10180 | 10289 | 1.36 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 30272 | 30151 | 30395 | 30273 | 0.40 | cps |
| Antimony | 121-1 | 3516543 | 3504548 | 3549952 | 3523681 | 0.67 | cps |
| Arsenic | 75-2 | 60432 | 61571 | 60881 | 60961 | 0.94 | cps |
| Barium | 135-1 | 416525 | 413590 | 417893 | 416003 | 0.53 | cps |
| Barium | 137-1 | 721616 | 722114 | 731831 | 725187 | 0.79 | cps |
| Beryllium | 9-1 | 570422 | 571316 | 566929 | 569556 | 0.41 | cps |
| Bismuth | 209-1 | 13542598 | 13433284 | 13461624 | 13479169 | 0.42 | cps |
| Bismuth | 209-2 | 4961829 | 5012488 | 4997408 | 4990575 | 0.52 | cps |
| Bromine | 81-1 | 3794 | 3814 | 3871 | 3826 | 1.04 | cps |
| Cadmium | 108-1 | 44719 | 45849 | 45950 | 45506 | 1.50 | cps |
| Cadmium | 106-1 | 46772 | 46394 | 47512 | 46893 | 1.21 | cps |
| Cadmium | 111-1 | 444618 | 445941 | 445885 | 445481 | 0.17 | cps |
| Calcium | 43-1 | 118516 | 118563 | 116853 | 117977 | 0.83 | cps |
| Calcium | 44-1 | 1915951 | 1876150 | 1902369 | 1898157 | 1.07 | cps |
| Carbon | 12-1 | 4283972 | 4408284 | 4393500 | 4361919 | 1.56 | cps |
| Carbon | 12-2 | 30121 | 30161 | 29954 | 30079 | 0.37 | cps |
| Chlorine | 35-1 | 120728 | 119004 | 119471 | 119734 | 0.74 | cps |
| Chlorine | 35-2 | 433 | 533 | 413 | 460 | 13.98 | cps |
| Chromium | 52-2 | 337270 | 335155 | 335097 | 335841 | 0.37 | cps |
| Cobalt | 59-2 | 655095 | 658932 | 652897 | 655641 | 0.47 | cps |
| Copper | 63-2 | 515175 | 521522 | 517964 | 518220 | 0.61 | cps |
| Dysprosium | 156-1 | 100 | 110 | 93 | 101 | 8.30 | cps |
| Dysprosium | 156-2 | 3 | 13 | 7 | 8 | 65.47 | cps |
| Erbium | 164-1 | 127 | 103 | 140 | 123 | 15.04 | cps |
| Erbium | 164-2 | 30 | 50 | 37 | 39 | 26.18 | cps |
| Gadolinium | 160-1 | 123 | 100 | 153 | 126 | 21.30 | cps |
| Gadolinium | 160-2 | 17 | 20 | 13 | 17 | 20.01 | cps |
| Holmium | 165-1 | 21315476 | 20733988 | 20844497 | 20964653 | 1.47 | cps |
| Holmium | 165-2 | 6508822 | 6500566 | 6488707 | 6499365 | 0.16 | cps |
| Indium | 115-1 | 16337170 | 16282833 | 16102265 | 16240756 | 0.76 | cps |
| Indium | 115-2 | 1390167 | 1384283 | 1386422 | 1386958 | 0.21 | cps |
| Iron | 54-2 | 276886 | 280677 | 277450 | 278338 | 0.74 | cps |
| Iron | 56-2 | 5021218 | 4966507 | 4921785 | 4969837 | 1.00 | cps |
| Iron | 57-2 | 124676 | 122453 | 123428 | 123519 | 0.90 | cps |
| Krypton | 83-1 | 267 | 240 | 290 | 266 | 9.42 | cps |
| Lead | 206-1 | 3071860 | 3022364 | 2992500 | 3028908 | 1.32 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2462501 | 2498942 | 2483373 | 2481605 | 0.74 | cps |
| Lead | 208-1 | 11597939 | 11618483 | 11576345 | 11597589 | 0.18 | cps |
| Lithium | 6-1 | 7734904 | 7482279 | 7583045 | 7600076 | 1.67 | cps |
| Magnesium | 24-2 | 265715 | 264350 | 265791 | 265286 | 0.31 | cps |
| Manganese | 55-2 | 130355 | 133803 | 130647 | 131602 | 1.45 | cps |
| Molybdenum | 94-1 | 23123643 | 22878052 | 22585228 | 22862308 | 1.18 | cps |
| Molybdenum | 95-1 | 41360599 | 41162430 | 40480217 | 41001082 | 1.13 | cps |
| Molybdenum | 96-1 | 44438539 | 43643673 | 43716906 | 43933039 | 1.00 | cps |
| Molybdenum | 97-1 | 25133275 | 25027085 | 25165682 | 25108681 | 0.29 | cps |
| Molybdenum | 98-1 | 66017892 | 66552564 | 65240604 | 65937020 | 1.00 | cps |
| Neodymium | 150-1 | 57 | 47 | 67 | 57 | 17.65 | cps |
| Neodymium | 150-2 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Nickel | 60-2 | 182518 | 185330 | 181802 | 183217 | 1.02 | cps |
| Phosphorus | 31-2 | 93 | 73 | 87 | 84 | 12.06 | cps |
| Potassium | 39-2 | 243935 | 244095 | 242794 | 243608 | 0.29 | cps |
| Rhodium | 103-1 | 15167069 | 14817089 | 14778421 | 14920860 | 1.43 | cps |
| Rhodium | 103-2 | 5406739 | 5414773 | 5356488 | 5392667 | 0.59 | cps |
| Scandium | 45-1 | 10896802 | 10725958 | 10613273 | 10745344 | 1.33 | cps |
| Scandium | 45-2 | 186862 | 186166 | 185737 | 186255 | 0.30 | cps |
| Selenium | 82-1 | 52586 | 52656 | 53001 | 52747 | 0.42 | cps |
| Selenium | 77-2 | 730 | 880 | 833 | 814 | 9.43 | cps |
| Selenium | 78-2 | 2700 | 2660 | 2707 | 2689 | 0.94 | cps |
| Silicon | 28-1 | 550322 | 543271 | 542306 | 545300 | 0.80 | cps |
| Silver | 107-1 | 1019729 | 1037840 | 1031261 | 1029610 | 0.89 | cps |
| Silver | 109-1 | 979772 | 985028 | 997669 | 987490 | 0.93 | cps |
| Sodium | 23-2 | 955750 | 941739 | 945627 | 947705 | 0.76 | cps |
| Strontium | 86-1 | 2902978 | 2859200 | 2905685 | 2889287 | 0.90 | cps |
| Strontium | 88-1 | 25059375 | 24893650 | 24965774 | 24972933 | 0.33 | cps |
| Sulfur | 34-1 | 783983 | 773978 | 767137 | 775033 | 1.09 | cps |
| Terbium | 159-1 | 21581733 | 21301225 | 21270942 | 21384633 | 0.80 | cps |
| Terbium | 159-2 | 6304495 | 6245242 | 6273710 | 6274482 | 0.47 | cps |
| Thallium | 203-1 | 3693848 | 3597194 | 3581029 | 3624024 | 1.68 | cps |
| Thallium | 205-1 | 8639799 | 8517454 | 8527706 | 8561653 | 0.79 | cps |
| Tin | 118-1 | 3921 | 4097 | 4174 | 4064 | 3.20 | cps |
| Titanium | 47-1 | 1807 | 1757 | 1807 | 1790 | 1.61 | cps |
| Uranium | 238-1 | 747 | 820 | 713 | 760 | 7.18 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICV005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:29:04 | DataFile Name : | 012ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 250410 | 252391 | 249556 | 250786 | 0.58 | cps |
| Ytterbium | 172-1 | 120 | 127 | 123 | 123 | 2.70 | cps |
| Ytterbium | 172-2 | 37 | 27 | 47 | 37 | 27.27 | cps |
| Ytterbium | 176-1 | 1893 | 2110 | 2094 | 2032 | 5.93 | cps |
| Ytterbium | 176-2 | 383 | 457 | 417 | 419 | 8.77 | cps |
| Yttrium | 89-1 | 28039401 | 27368147 | 27300040 | 27569196 | 1.48 | cps |
| Yttrium | 89-2 | 1716657 | 1739921 | 1685710 | 1714096 | 1.59 | cps |
| Zinc | 66-2 | 102745 | 104814 | 102695 | 103418 | 1.17 | cps |
| Zirconium | 90-1 | 1407 | 1483 | 1543 | 1478 | 4.64 | cps |
| Zirconium | 91-1 | 970 | 917 | 1083 | 990 | 8.60 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 53 | 83 | 113 | 83 | 36.01 | cps |
| Antimony | 121-1 | 693 | 527 | 550 | 590 | 15.30 | cps |
| Arsenic | 75-2 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Barium | 135-1 | 307 | 293 | 270 | 290 | 6.40 | cps |
| Barium | 137-1 | 423 | 440 | 453 | 439 | 3.42 | cps |
| Beryllium | 9-1 | 429 | 446 | 427 | 434 | 2.41 | cps |
| Bismuth | 209-1 | 13542910 | 13478139 | 13431154 | 13484068 | 0.42 | cps |
| Bismuth | 209-2 | 5023546 | 5052107 | 5098193 | 5057949 | 0.74 | cps |
| Bromine | 81-1 | 3781 | 3704 | 3741 | 3742 | 1.03 | cps |
| Cadmium | 108-1 | 27 | 40 | 40 | 36 | 21.64 | cps |
| Cadmium | 106-1 | 8379 | 8203 | 7976 | 8186 | 2.47 | cps |
| Cadmium | 111-1 | 5900 | 5764 | 5592 | 5752 | 2.69 | cps |
| Calcium | 43-1 | 450 | 357 | 437 | 414 | 12.18 | cps |
| Calcium | 44-1 | 25509 | 25025 | 24648 | 25061 | 1.72 | cps |
| Carbon | 12-1 | 3370678 | 3347989 | 3363624 | 3360764 | 0.35 | cps |
| Carbon | 12-2 | 23112 | 22654 | 22684 | 22817 | 1.12 | cps |
| Chlorine | 35-1 | 118402 | 118587 | 118399 | 118463 | 0.09 | cps |
| Chlorine | 35-2 | 503 | 477 | 367 | 449 | 16.14 | cps |
| Chromium | 52-2 | 763 | 790 | 753 | 769 | 2.47 | cps |
| Cobalt | 59-2 | 123 | 130 | 143 | 132 | 7.70 | cps |
| Copper | 63-2 | 2944 | 2717 | 2957 | 2873 | 4.70 | cps |
| Dysprosium | 156-1 | 67 | 77 | 40 | 61 | 31.02 | cps |
| Dysprosium | 156-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Erbium | 164-1 | 67 | 80 | 87 | 78 | 13.09 | cps |
| Erbium | 164-2 | 47 | 23 | 23 | 31 | 43.32 | cps |
| Gadolinium | 160-1 | 130 | 113 | 120 | 121 | 6.92 | cps |
| Gadolinium | 160-2 | 13 | 17 | 7 | 12 | 41.65 | cps |
| Holmium | 165-1 | 20726861 | 20697862 | 20552567 | 20659097 | 0.45 | cps |
| Holmium | 165-2 | 6563018 | 6656614 | 6557052 | 6592228 | 0.85 | cps |
| Indium | 115-1 | 16348563 | 16375735 | 16276626 | 16333641 | 0.31 | cps |
| Indium | 115-2 | 1384810 | 1388247 | 1400582 | 1391213 | 0.60 | cps |
| Iron | 54-2 | 417 | 413 | 400 | 410 | 2.15 | cps |
| Iron | 56-2 | 6175 | 5735 | 6011 | 5974 | 3.73 | cps |
| Iron | 57-2 | 113 | 137 | 143 | 131 | 12.01 | cps |
| Krypton | 83-1 | 260 | 297 | 267 | 274 | 7.12 | cps |
| Lead | 206-1 | 2374 | 2457 | 2514 | 2448 | 2.88 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2154 | 1927 | 2094 | 2058 | 5.71 | cps |
| Lead | 208-1 | 9258 | 9358 | 9508 | 9375 | 1.34 | cps |
| Lithium | 6-1 | 7831695 | 7526308 | 7659804 | 7672603 | 2.00 | cps |
| Magnesium | 24-2 | 2544 | 2757 | 2544 | 2615 | 4.71 | cps |
| Manganese | 55-2 | 167 | 190 | 170 | 176 | 7.19 | cps |
| Molybdenum | 94-1 | 907 | 710 | 840 | 819 | 12.21 | cps |
| Molybdenum | 95-1 | 1040 | 890 | 780 | 903 | 14.45 | cps |
| Molybdenum | 96-1 | 1140 | 1033 | 963 | 1046 | 8.51 | cps |
| Molybdenum | 97-1 | 600 | 550 | 543 | 564 | 5.49 | cps |
| Molybdenum | 98-1 | 1560 | 1533 | 1280 | 1458 | 10.60 | cps |
| Neodymium | 150-1 | 3 | 30 | 17 | 17 | 80.01 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 797 | 727 | 727 | 750 | 5.39 | cps |
| Phosphorus | 31-2 | 80 | 60 | 103 | 81 | 26.74 | cps |
| Potassium | 39-2 | 9436 | 9530 | 9517 | 9494 | 0.53 | cps |
| Rhodium | 103-1 | 15177009 | 14880696 | 14964620 | 15007442 | 1.02 | cps |
| Rhodium | 103-2 | 5459983 | 5501569 | 5487777 | 5483110 | 0.39 | cps |
| Scandium | 45-1 | 10629244 | 10604165 | 10655321 | 10629577 | 0.24 | cps |
| Scandium | 45-2 | 188292 | 189013 | 189489 | 188932 | 0.32 | cps |
| Selenium | 82-1 | 13 | -50 | 17 | -7 | -563.47 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Silicon | 28-1 | 515777 | 514132 | 513703 | 514537 | 0.21 | cps |
| Silver | 107-1 | 487 | 463 | 370 | 440 | 14.03 | cps |
| Silver | 109-1 | 293 | 303 | 270 | 289 | 5.92 | cps |
| Sodium | 23-2 | 55572 | 56134 | 55415 | 55707 | 0.68 | cps |
| Strontium | 86-1 | 660 | 733 | 653 | 682 | 6.51 | cps |
| Strontium | 88-1 | 2427 | 2330 | 2230 | 2329 | 4.22 | cps |
| Sulfur | 34-1 | 761967 | 756800 | 759449 | 759405 | 0.34 | cps |
| Terbium | 159-1 | 21228205 | 21269873 | 21450672 | 21316250 | 0.55 | cps |
| Terbium | 159-2 | 6331759 | 6283236 | 6392654 | 6335883 | 0.87 | cps |
| Thallium | 203-1 | 497 | 503 | 417 | 472 | 10.21 | cps |
| Thallium | 205-1 | 1143 | 1137 | 1127 | 1136 | 0.74 | cps |
| Tin | 118-1 | 3250 | 3347 | 3244 | 3280 | 1.76 | cps |
| Titanium | 47-1 | 567 | 477 | 520 | 521 | 8.64 | cps |
| Uranium | 238-1 | 60 | 40 | 60 | 53 | 21.65 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:33:28 | DataFile Name : | 013CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 17 | 10 | 13 | 25.01 | cps |
| Ytterbium | 172-1 | 143 | 150 | 83 | 126 | 29.25 | cps |
| Ytterbium | 172-2 | 43 | 37 | 47 | 42 | 12.06 | cps |
| Ytterbium | 176-1 | 2124 | 1890 | 2087 | 2034 | 6.17 | cps |
| Ytterbium | 176-2 | 377 | 373 | 473 | 408 | 13.93 | cps |
| Yttrium | 89-1 | 27524396 | 27509838 | 27491057 | 27508430 | 0.06 | cps |
| Yttrium | 89-2 | 1726713 | 1728911 | 1737181 | 1730935 | 0.32 | cps |
| Zinc | 66-2 | 213 | 277 | 330 | 273 | 21.37 | cps |
| Zirconium | 90-1 | 943 | 860 | 950 | 918 | 5.46 | cps |
| Zirconium | 91-1 | 180 | 237 | 220 | 212 | 13.72 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6006961 | 6017654 | 5975984 | 6000200 | 0.36 | cps |
| Antimony | 121-1 | 19811 | 19554 | 19634 | 19666 | 0.67 | cps |
| Arsenic | 75-2 | 113 | 77 | 73 | 88 | 25.28 | cps |
| Barium | 135-1 | 5885 | 5821 | 5911 | 5872 | 0.79 | cps |
| Barium | 137-1 | 10337 | 10554 | 10631 | 10508 | 1.45 | cps |
| Beryllium | 9-1 | 1885 | 1909 | 1940 | 1911 | 1.44 | cps |
| Bismuth | 209-1 | 12029610 | 12211727 | 12245480 | 12162272 | 0.95 | cps |
| Bismuth | 209-2 | 4573909 | 4578975 | 4543534 | 4565473 | 0.42 | cps |
| Bromine | 81-1 | 5815 | 5731 | 6145 | 5897 | 3.71 | cps |
| Cadmium | 108-1 | 6372 | 6115 | 6105 | 6197 | 2.44 | cps |
| Cadmium | 106-1 | 7109 | 7722 | 7145 | 7325 | 4.70 | cps |
| Cadmium | 111-1 | 7618 | 8290 | 7680 | 7863 | 4.73 | cps |
| Calcium | 43-1 | 5446983 | 5383944 | 5352264 | 5394397 | 0.89 | cps |
| Calcium | 44-1 | 86158472 | 86280525 | 86114075 | 86184358 | 0.10 | cps |
| Carbon | 12-1 | 42514864 | 42940103 | 43689409 | 43048125 | 1.38 | cps |
| Carbon | 12-2 | 298031 | 297683 | 295211 | 296975 | 0.52 | cps |
| Chlorine | 35-1 | 82030902 | 86693605 | 88162952 | 85629153 | 3.74 | cps |
| Chlorine | 35-2 | 345867 | 349596 | 352022 | 349162 | 0.89 | cps |
| Chromium | 52-2 | 66631 | 67569 | 68161 | 67454 | 1.14 | cps |
| Cobalt | 59-2 | 7482 | 7575 | 7519 | 7525 | 0.63 | cps |
| Copper | 63-2 | 42430 | 42630 | 42831 | 42630 | 0.47 | cps |
| Dysprosium | 156-1 | 143 | 150 | 120 | 138 | 11.43 | cps |
| Dysprosium | 156-2 | 27 | 33 | 17 | 26 | 32.81 | cps |
| Erbium | 164-1 | 157 | 143 | 197 | 166 | 16.76 | cps |
| Erbium | 164-2 | 53 | 37 | 20 | 37 | 45.45 | cps |
| Gadolinium | 160-1 | 187 | 150 | 170 | 169 | 10.87 | cps |
| Gadolinium | 160-2 | 37 | 50 | 37 | 41 | 18.72 | cps |
| Holmium | 165-1 | 20617565 | 20658430 | 20432159 | 20569385 | 0.59 | cps |
| Holmium | 165-2 | 6575024 | 6500270 | 6485179 | 6520158 | 0.74 | cps |
| Indium | 115-1 | 15318846 | 15519039 | 15363973 | 15400619 | 0.68 | cps |
| Indium | 115-2 | 1333767 | 1308138 | 1324311 | 1322072 | 0.98 | cps |
| Iron | 54-2 | 13614068 | 13647490 | 13610834 | 13624131 | 0.15 | cps |
| Iron | 56-2 | 251060403 | 250758690 | 250514036 | 250777710 | 0.11 | cps |
| Iron | 57-2 | 6296719 | 6378436 | 6279789 | 6318315 | 0.83 | cps |
| Krypton | 83-1 | 307 | 223 | 330 | 287 | 19.56 | cps |
| Lead | 206-1 | 65993 | 66077 | 66694 | 66255 | 0.58 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 52004 | 52047 | 53333 | 52461 | 1.44 | cps |
| Lead | 208-1 | 245054 | 244953 | 247366 | 245791 | 0.56 | cps |
| Lithium | 6-1 | 7116545 | 7220420 | 7096544 | 7144503 | 0.93 | cps |
| Magnesium | 24-2 | 22124691 | 22203375 | 22474322 | 22267462 | 0.82 | cps |
| Manganese | 55-2 | 10394 | 10204 | 10707 | 10435 | 2.44 | cps |
| Molybdenum | 94-1 | 9372882 | 9387651 | 9455733 | 9405422 | 0.47 | cps |
| Molybdenum | 95-1 | 16694674 | 16800269 | 17056196 | 16850380 | 1.10 | cps |
| Molybdenum | 96-1 | 18127939 | 18221306 | 18521591 | 18290279 | 1.12 | cps |
| Molybdenum | 97-1 | 10519083 | 10394462 | 10488139 | 10467228 | 0.62 | cps |
| Molybdenum | 98-1 | 27343355 | 27308917 | 27594248 | 27415507 | 0.57 | cps |
| Neodymium | 150-1 | 57 | 117 | 67 | 80 | 40.18 | cps |
| Neodymium | 150-2 | 10 | 27 | 23 | 20 | 44.10 | cps |
| Nickel | 60-2 | 9680 | 9773 | 9970 | 9808 | 1.51 | cps |
| Phosphorus | 31-2 | 303682 | 302537 | 305684 | 303968 | 0.52 | cps |
| Potassium | 39-2 | 12365498 | 12291436 | 12374273 | 12343736 | 0.37 | cps |
| Rhodium | 103-1 | 13889221 | 13856253 | 13797442 | 13847639 | 0.34 | cps |
| Rhodium | 103-2 | 5155276 | 5050942 | 5055983 | 5087400 | 1.16 | cps |
| Scandium | 45-1 | 10445305 | 10407103 | 10161973 | 10338127 | 1.49 | cps |
| Scandium | 45-2 | 188330 | 185136 | 186905 | 186790 | 0.86 | cps |
| Selenium | 82-1 | -3 | 107 | 20 | 41 | 140.98 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 13 | 13 | 11 | 34.61 | cps |
| Silicon | 28-1 | 833414 | 837674 | 841634 | 837574 | 0.49 | cps |
| Silver | 107-1 | 570 | 580 | 707 | 619 | 12.31 | cps |
| Silver | 109-1 | 383 | 460 | 633 | 492 | 26.02 | cps |
| Sodium | 23-2 | 46690169 | 47590618 | 47061028 | 47113938 | 0.96 | cps |
| Strontium | 86-1 | 184074 | 187746 | 185923 | 185914 | 0.99 | cps |
| Strontium | 88-1 | 1672683 | 1688072 | 1660178 | 1673644 | 0.83 | cps |
| Sulfur | 34-1 | 7533888 | 7533547 | 7406167 | 7491201 | 0.98 | cps |
| Terbium | 159-1 | 20728528 | 21187189 | 20896471 | 20937396 | 1.11 | cps |
| Terbium | 159-2 | 6251593 | 6204603 | 6115550 | 6190582 | 1.12 | cps |
| Thallium | 203-1 | 1243 | 1177 | 1427 | 1282 | 10.10 | cps |
| Thallium | 205-1 | 2637 | 2940 | 3247 | 2941 | 10.37 | cps |
| Tin | 118-1 | 4744 | 4584 | 4624 | 4651 | 1.79 | cps |
| Titanium | 47-1 | 5127233 | 5130039 | 5158978 | 5138750 | 0.34 | cps |
| Uranium | 238-1 | 840 | 940 | 1000 | 927 | 8.72 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSA005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:40:53 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 350 | 410 | 380 | 380 | 7.89 | cps |
| Ytterbium | 172-1 | 110 | 113 | 163 | 129 | 23.18 | cps |
| Ytterbium | 172-2 | 57 | 33 | 37 | 42 | 29.89 | cps |
| Ytterbium | 176-1 | 1843 | 1870 | 1967 | 1893 | 3.43 | cps |
| Ytterbium | 176-2 | 337 | 297 | 387 | 340 | 13.26 | cps |
| Yttrium | 89-1 | 27253494 | 27165486 | 26846611 | 27088530 | 0.79 | cps |
| Yttrium | 89-2 | 1740354 | 1705133 | 1737976 | 1727821 | 1.14 | cps |
| Zinc | 66-2 | 5808 | 5958 | 5898 | 5888 | 1.28 | cps |
| Zirconium | 90-1 | 1343 | 1337 | 1207 | 1296 | 5.95 | cps |
| Zirconium | 91-1 | 240 | 283 | 240 | 254 | 9.83 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5994950 | 6050514 | 6012247 | 6019237 | 0.47 | cps |
| Antimony | 121-1 | 367934 | 374470 | 374622 | 372342 | 1.03 | cps |
| Arsenic | 75-2 | 6395 | 6562 | 6505 | 6487 | 1.31 | cps |
| Barium | 135-1 | 90305 | 89677 | 91640 | 90541 | 1.11 | cps |
| Barium | 137-1 | 156772 | 160371 | 158749 | 158631 | 1.14 | cps |
| Beryllium | 9-1 | 114145 | 113164 | 114488 | 113932 | 0.60 | cps |
| Bismuth | 209-1 | 12210319 | 12504837 | 12347249 | 12354135 | 1.19 | cps |
| Bismuth | 209-2 | 4532101 | 4527686 | 4588239 | 4549342 | 0.74 | cps |
| Bromine | 81-1 | 5584 | 5708 | 5871 | 5721 | 2.51 | cps |
| Cadmium | 108-1 | 11505 | 11682 | 11738 | 11642 | 1.05 | cps |
| Cadmium | 106-1 | 14424 | 14978 | 14755 | 14719 | 1.89 | cps |
| Cadmium | 111-1 | 90717 | 91055 | 91173 | 90982 | 0.26 | cps |
| Calcium | 43-1 | 5475465 | 5503974 | 5520666 | 5500035 | 0.42 | cps |
| Calcium | 44-1 | 88541132 | 89041159 | 87942689 | 88508326 | 0.62 | cps |
| Carbon | 12-1 | 43781208 | 44817178 | 45099161 | 44565849 | 1.56 | cps |
| Carbon | 12-2 | 305040 | 304895 | 306385 | 305440 | 0.27 | cps |
| Chlorine | 35-1 | 83283905 | 88733885 | 91018935 | 87678909 | 4.53 | cps |
| Chlorine | 35-2 | 352440 | 351440 | 356498 | 353459 | 0.76 | cps |
| Chromium | 52-2 | 134774 | 133849 | 135467 | 134697 | 0.60 | cps |
| Cobalt | 59-2 | 135601 | 137711 | 137267 | 136860 | 0.81 | cps |
| Copper | 63-2 | 142732 | 141295 | 143382 | 142469 | 0.75 | cps |
| Dysprosium | 156-1 | 77 | 83 | 120 | 93 | 25.00 | cps |
| Dysprosium | 156-2 | 13 | 40 | 30 | 28 | 48.51 | cps |
| Erbium | 164-1 | 180 | 190 | 160 | 177 | 8.65 | cps |
| Erbium | 164-2 | 50 | 57 | 37 | 48 | 21.31 | cps |
| Gadolinium | 160-1 | 167 | 217 | 147 | 177 | 20.41 | cps |
| Gadolinium | 160-2 | 37 | 37 | 47 | 40 | 14.43 | cps |
| Holmium | 165-1 | 20356436 | 20579217 | 20516423 | 20484025 | 0.56 | cps |
| Holmium | 165-2 | 6491588 | 6517134 | 6543364 | 6517362 | 0.40 | cps |
| Indium | 115-1 | 15409433 | 15753983 | 15620919 | 15594778 | 1.11 | cps |
| Indium | 115-2 | 1328865 | 1327857 | 1344972 | 1333898 | 0.72 | cps |
| Iron | 54-2 | 13914743 | 13765982 | 13776885 | 13819203 | 0.60 | cps |
| Iron | 56-2 | 251448883 | 252795470 | 252437643 | 252227332 | 0.28 | cps |
| Iron | 57-2 | 6407290 | 6374912 | 6324172 | 6368792 | 0.66 | cps |
| Krypton | 83-1 | 280 | 260 | 327 | 289 | 11.84 | cps |
| Lead | 206-1 | 348955 | 343612 | 349910 | 347492 | 0.98 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 285791 | 286962 | 288338 | 287030 | 0.44 | cps |
| Lead | 208-1 | 1334026 | 1336093 | 1348284 | 1339468 | 0.58 | cps |
| Lithium | 6-1 | 7211124 | 7338204 | 7134991 | 7228106 | 1.42 | cps |
| Magnesium | 24-2 | 22420017 | 22370046 | 22652528 | 22480864 | 0.67 | cps |
| Manganese | 55-2 | 36995 | 37305 | 36797 | 37032 | 0.69 | cps |
| Molybdenum | 94-1 | 9434009 | 9597543 | 9730634 | 9587396 | 1.55 | cps |
| Molybdenum | 95-1 | 17156441 | 17325048 | 17299038 | 17260175 | 0.53 | cps |
| Molybdenum | 96-1 | 18380093 | 18484234 | 18416512 | 18426946 | 0.29 | cps |
| Molybdenum | 97-1 | 10543509 | 10707248 | 10605771 | 10618843 | 0.78 | cps |
| Molybdenum | 98-1 | 27766905 | 27654863 | 27940059 | 27787276 | 0.52 | cps |
| Neodymium | 150-1 | 70 | 77 | 93 | 80 | 15.02 | cps |
| Neodymium | 150-2 | 20 | 20 | 10 | 17 | 34.64 | cps |
| Nickel | 60-2 | 44707 | 45024 | 45339 | 45023 | 0.70 | cps |
| Phosphorus | 31-2 | 307469 | 307618 | 309604 | 308230 | 0.39 | cps |
| Potassium | 39-2 | 12509024 | 12453781 | 12448709 | 12470505 | 0.27 | cps |
| Rhodium | 103-1 | 13875978 | 13887588 | 13857661 | 13873742 | 0.11 | cps |
| Rhodium | 103-2 | 5051135 | 5024338 | 5086858 | 5054110 | 0.62 | cps |
| Scandium | 45-1 | 10653580 | 10619027 | 10499199 | 10590602 | 0.77 | cps |
| Scandium | 45-2 | 189806 | 188260 | 189894 | 189320 | 0.49 | cps |
| Selenium | 82-1 | 5178 | 5318 | 5081 | 5192 | 2.29 | cps |
| Selenium | 77-2 | 80 | 97 | 90 | 89 | 9.44 | cps |
| Selenium | 78-2 | 300 | 370 | 327 | 332 | 10.63 | cps |
| Silicon | 28-1 | 884565 | 895282 | 897462 | 892436 | 0.77 | cps |
| Silver | 107-1 | 399566 | 406427 | 410427 | 405473 | 1.35 | cps |
| Silver | 109-1 | 384188 | 386227 | 391978 | 387464 | 1.04 | cps |
| Sodium | 23-2 | 47256234 | 47515498 | 47878381 | 47550038 | 0.66 | cps |
| Strontium | 86-1 | 185800 | 189458 | 188823 | 188027 | 1.04 | cps |
| Strontium | 88-1 | 1672451 | 1705470 | 1709037 | 1695653 | 1.19 | cps |
| Sulfur | 34-1 | 7556280 | 7595385 | 7600287 | 7583984 | 0.32 | cps |
| Terbium | 159-1 | 20806117 | 21019011 | 21155095 | 20993407 | 0.84 | cps |
| Terbium | 159-2 | 6166700 | 6246593 | 6249932 | 6221075 | 0.76 | cps |
| Thallium | 203-1 | 343738 | 351025 | 345870 | 346878 | 1.08 | cps |
| Thallium | 205-1 | 830755 | 825084 | 839998 | 831946 | 0.90 | cps |
| Tin | 118-1 | 5304 | 5318 | 5344 | 5322 | 0.38 | cps |
| Titanium | 47-1 | 5323245 | 5302710 | 5308434 | 5311463 | 0.20 | cps |
| Uranium | 238-1 | 977 | 973 | 857 | 936 | 7.31 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB005 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB005 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:44:07 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 52001 | 51981 | 52322 | 52101 | 0.37 | cps |
| Ytterbium | 172-1 | 113 | 113 | 123 | 117 | 4.95 | cps |
| Ytterbium | 172-2 | 37 | 47 | 70 | 51 | 33.46 | cps |
| Ytterbium | 176-1 | 1900 | 2077 | 1997 | 1991 | 4.44 | cps |
| Ytterbium | 176-2 | 253 | 270 | 300 | 274 | 8.62 | cps |
| Yttrium | 89-1 | 27140585 | 27803564 | 27560562 | 27501570 | 1.22 | cps |
| Yttrium | 89-2 | 1754140 | 1715352 | 1728686 | 1732726 | 1.14 | cps |
| Zinc | 66-2 | 16436 | 16400 | 16740 | 16525 | 1.13 | cps |
| Zirconium | 90-1 | 1207 | 1223 | 1237 | 1222 | 1.23 | cps |
| Zirconium | 91-1 | 290 | 277 | 373 | 313 | 16.72 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3169562 | 3158720 | 3180349 | 3169544 | 0.34 | cps |
| Antimony | 121-1 | 8126634 | 8256109 | 8224264 | 8202336 | 0.82 | cps |
| Arsenic | 75-2 | 145802 | 147048 | 145903 | 146251 | 0.47 | cps |
| Barium | 135-1 | 10236305 | 10212767 | 10137241 | 10195438 | 0.51 | cps |
| Barium | 137-1 | 17604237 | 17519349 | 17311526 | 17478371 | 0.86 | cps |
| Beryllium | 9-1 | 2576460 | 2577644 | 2639292 | 2597798 | 1.38 | cps |
| Bismuth | 209-1 | 11869031 | 11730148 | 11919163 | 11839447 | 0.83 | cps |
| Bismuth | 209-2 | 4387952 | 4352452 | 4342162 | 4360855 | 0.55 | cps |
| Bromine | 81-1 | 4527 | 4387 | 4731 | 4549 | 3.80 | cps |
| Cadmium | 108-1 | 161075 | 161590 | 158476 | 160381 | 1.04 | cps |
| Cadmium | 106-1 | 229534 | 231582 | 229930 | 230349 | 0.47 | cps |
| Cadmium | 111-1 | 2018720 | 2055838 | 2007825 | 2027461 | 1.24 | cps |
| Calcium | 43-1 | 13148554 | 13299301 | 12898214 | 13115356 | 1.54 | cps |
| Calcium | 44-1 | 212923063 | 212363910 | 210857070 | 212048015 | 0.50 | cps |
| Carbon | 12-1 | 4363138 | 4466232 | 4590958 | 4473443 | 2.55 | cps |
| Carbon | 12-2 | 37261 | 37377 | 37217 | 37285 | 0.22 | cps |
| Chlorine | 35-1 | 5495177 | 5120077 | 4779648 | 5131634 | 6.97 | cps |
| Chlorine | 35-2 | 15842 | 14467 | 14117 | 14809 | 6.16 | cps |
| Chromium | 52-2 | 1642859 | 1676960 | 1662017 | 1660612 | 1.03 | cps |
| Cobalt | 59-2 | 3068121 | 3057566 | 3121376 | 3082354 | 1.11 | cps |
| Copper | 63-2 | 23192514 | 22883593 | 23089720 | 23055275 | 0.68 | cps |
| Dysprosium | 156-1 | 437 | 490 | 517 | 481 | 8.47 | cps |
| Dysprosium | 156-2 | 77 | 107 | 157 | 113 | 35.66 | cps |
| Erbium | 164-1 | 443 | 473 | 417 | 444 | 6.38 | cps |
| Erbium | 164-2 | 167 | 120 | 127 | 138 | 18.32 | cps |
| Gadolinium | 160-1 | 427 | 383 | 377 | 396 | 6.86 | cps |
| Gadolinium | 160-2 | 107 | 133 | 147 | 129 | 15.80 | cps |
| Holmium | 165-1 | 20411443 | 20154997 | 20036150 | 20200863 | 0.95 | cps |
| Holmium | 165-2 | 6471011 | 6410590 | 6391546 | 6424382 | 0.65 | cps |
| Indium | 115-1 | 15192598 | 14994091 | 15205673 | 15130787 | 0.78 | cps |
| Indium | 115-2 | 1291644 | 1281693 | 1287447 | 1286928 | 0.39 | cps |
| Iron | 54-2 | 16391840 | 16426451 | 16491236 | 16436509 | 0.31 | cps |
| Iron | 56-2 | 300779982 | 301480556 | 299584496 | 300615011 | 0.32 | cps |
| Iron | 57-2 | 7612747 | 7563826 | 7610558 | 7595710 | 0.36 | cps |
| Krypton | 83-1 | 290 | 327 | 300 | 306 | 6.20 | cps |
| Lead | 206-1 | 32927185 | 33278853 | 33232704 | 33146247 | 0.58 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 28030996 | 28589648 | 27969801 | 28196815 | 1.21 | cps |
| Lead | 208-1 | 130245371 | 132158258 | 129869079 | 130757569 | 0.94 | cps |
| Lithium | 6-1 | 6989319 | 6866152 | 7044700 | 6966724 | 1.31 | cps |
| Magnesium | 24-2 | 56922591 | 56457906 | 56650966 | 56677154 | 0.41 | cps |
| Manganese | 55-2 | 6443935 | 6526941 | 6528521 | 6499799 | 0.74 | cps |
| Molybdenum | 94-1 | 28434377 | 28922759 | 28848190 | 28735108 | 0.92 | cps |
| Molybdenum | 95-1 | 41195852 | 42220186 | 41233199 | 41549745 | 1.40 | cps |
| Molybdenum | 96-1 | 44650248 | 45498248 | 45404404 | 45184300 | 1.03 | cps |
| Molybdenum | 97-1 | 25333663 | 25504583 | 25677749 | 25505332 | 0.67 | cps |
| Molybdenum | 98-1 | 66889372 | 67446061 | 66874679 | 67070037 | 0.49 | cps |
| Neodymium | 150-1 | 817 | 783 | 803 | 801 | 2.09 | cps |
| Neodymium | 150-2 | 57 | 37 | 60 | 51 | 24.69 | cps |
| Nickel | 60-2 | 811957 | 800282 | 803952 | 805397 | 0.74 | cps |
| Phosphorus | 31-2 | 30171 | 29710 | 29440 | 29774 | 1.24 | cps |
| Potassium | 39-2 | 15510131 | 15240570 | 15348176 | 15366292 | 0.88 | cps |
| Rhodium | 103-1 | 13239419 | 13303216 | 13345204 | 13295946 | 0.40 | cps |
| Rhodium | 103-2 | 4993708 | 4819310 | 4900803 | 4904607 | 1.78 | cps |
| Scandium | 45-1 | 10331161 | 10345687 | 10185383 | 10287410 | 0.86 | cps |
| Scandium | 45-2 | 187276 | 185830 | 188191 | 187099 | 0.64 | cps |
| Selenium | 82-1 | 119667 | 119070 | 119079 | 119272 | 0.29 | cps |
| Selenium | 77-2 | 1823 | 1773 | 1797 | 1798 | 1.39 | cps |
| Selenium | 78-2 | 5988 | 6055 | 6011 | 6018 | 0.56 | cps |
| Silicon | 28-1 | 6806029 | 6890147 | 6910203 | 6868793 | 0.80 | cps |
| Silver | 107-1 | 10030707 | 9965765 | 9920619 | 9972364 | 0.55 | cps |
| Silver | 109-1 | 9406048 | 9317862 | 9330627 | 9351512 | 0.51 | cps |
| Sodium | 23-2 | 114315252 | 114155588 | 112389225 | 113620022 | 0.94 | cps |
| Strontium | 86-1 | 2667082 | 2651919 | 2649561 | 2656187 | 0.36 | cps |
| Strontium | 88-1 | 22710773 | 23095957 | 23018726 | 22941819 | 0.89 | cps |
| Sulfur | 34-1 | 1399744 | 1409353 | 1387830 | 1398975 | 0.77 | cps |
| Terbium | 159-1 | 20607077 | 20287746 | 20418101 | 20437641 | 0.79 | cps |
| Terbium | 159-2 | 6157029 | 6132648 | 6072720 | 6120799 | 0.71 | cps |
| Thallium | 203-1 | 7962308 | 8077453 | 8059295 | 8033019 | 0.77 | cps |
| Thallium | 205-1 | 19095211 | 19296247 | 19574710 | 19322056 | 1.25 | cps |
| Tin | 118-1 | 6609116 | 6517790 | 6579674 | 6568860 | 0.71 | cps |
| Titanium | 47-1 | 12310534 | 12209617 | 12080906 | 12200352 | 0.94 | cps |
| Uranium | 238-1 | 26703386 | 26821364 | 26478126 | 26667625 | 0.65 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:47:19 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1265108 | 1263519 | 1293057 | 1273895 | 1.30 | cps |
| Ytterbium | 172-1 | 573 | 537 | 510 | 540 | 5.89 | cps |
| Ytterbium | 172-2 | 200 | 227 | 197 | 208 | 7.91 | cps |
| Ytterbium | 176-1 | 41866 | 41843 | 41050 | 41586 | 1.12 | cps |
| Ytterbium | 176-2 | 12946 | 12850 | 13163 | 12986 | 1.24 | cps |
| Yttrium | 89-1 | 26391441 | 26406276 | 26292052 | 26363257 | 0.24 | cps |
| Yttrium | 89-2 | 1734264 | 1703945 | 1702916 | 1713708 | 1.04 | cps |
| Zinc | 66-2 | 2538499 | 2479406 | 2459708 | 2492538 | 1.65 | cps |
| Zirconium | 90-1 | 14341067 | 14629049 | 14514052 | 14494723 | 1.00 | cps |
| Zirconium | 91-1 | 3265633 | 3336903 | 3199049 | 3267195 | 2.11 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 223 | 157 | 170 | 183 | 19.24 | cps |
| Antimony | 121-1 | 2004 | 1880 | 1870 | 1918 | 3.87 | cps |
| Arsenic | 75-2 | 7 | 20 | 10 | 12 | 56.76 | cps |
| Barium | 135-1 | 483 | 563 | 353 | 467 | 22.71 | cps |
| Barium | 137-1 | 887 | 757 | 817 | 820 | 7.93 | cps |
| Beryllium | 9-1 | 1172 | 1077 | 1002 | 1084 | 7.86 | cps |
| Bismuth | 209-1 | 13602345 | 13556552 | 13597166 | 13585354 | 0.18 | cps |
| Bismuth | 209-2 | 5091491 | 5063225 | 5023979 | 5059565 | 0.67 | cps |
| Bromine | 81-1 | 4037 | 4191 | 4337 | 4188 | 3.58 | cps |
| Cadmium | 108-1 | 50 | 50 | 20 | 40 | 43.30 | cps |
| Cadmium | 106-1 | 8169 | 8109 | 8086 | 8121 | 0.53 | cps |
| Cadmium | 111-1 | 5870 | 5781 | 5739 | 5797 | 1.15 | cps |
| Calcium | 43-1 | 817 | 720 | 680 | 739 | 9.51 | cps |
| Calcium | 44-1 | 33540 | 32851 | 32206 | 32866 | 2.03 | cps |
| Carbon | 12-1 | 3791397 | 3747498 | 3721546 | 3753480 | 0.94 | cps |
| Carbon | 12-2 | 24524 | 24170 | 24223 | 24306 | 0.78 | cps |
| Chlorine | 35-1 | 2413313 | 2255758 | 2144908 | 2271327 | 5.94 | cps |
| Chlorine | 35-2 | 7245 | 7169 | 6592 | 7002 | 5.10 | cps |
| Chromium | 52-2 | 757 | 727 | 730 | 738 | 2.23 | cps |
| Cobalt | 59-2 | 140 | 200 | 140 | 160 | 21.65 | cps |
| Copper | 63-2 | 3470 | 3277 | 3444 | 3397 | 3.09 | cps |
| Dysprosium | 156-1 | 17 | 27 | 43 | 29 | 46.62 | cps |
| Dysprosium | 156-2 | 0 | 10 | 7 | 6 | 91.64 | cps |
| Erbium | 164-1 | 113 | 73 | 117 | 101 | 23.85 | cps |
| Erbium | 164-2 | 37 | 20 | 47 | 34 | 39.11 | cps |
| Gadolinium | 160-1 | 110 | 117 | 150 | 126 | 17.07 | cps |
| Gadolinium | 160-2 | 43 | 23 | 7 | 24 | 75.09 | cps |
| Holmium | 165-1 | 21356763 | 21051391 | 20935684 | 21114612 | 1.03 | cps |
| Holmium | 165-2 | 6774222 | 6739237 | 6656540 | 6723333 | 0.90 | cps |
| Indium | 115-1 | 16981189 | 16889178 | 16766820 | 16879062 | 0.64 | cps |
| Indium | 115-2 | 1428029 | 1431880 | 1436139 | 1432016 | 0.28 | cps |
| Iron | 54-2 | 807 | 907 | 877 | 863 | 5.94 | cps |
| Iron | 56-2 | 14808 | 15192 | 13066 | 14355 | 7.89 | cps |
| Iron | 57-2 | 400 | 383 | 330 | 371 | 9.85 | cps |
| Krypton | 83-1 | 297 | 287 | 250 | 278 | 8.85 | cps |
| Lead | 206-1 | 5074 | 4771 | 4891 | 4912 | 3.11 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4721 | 4204 | 4071 | 4332 | 7.93 | cps |
| Lead | 208-1 | 20426 | 19239 | 18735 | 19467 | 4.46 | cps |
| Lithium | 6-1 | 7817610 | 7793227 | 7890989 | 7833942 | 0.65 | cps |
| Magnesium | 24-2 | 2584 | 2517 | 2524 | 2541 | 1.45 | cps |
| Manganese | 55-2 | 340 | 290 | 287 | 306 | 9.78 | cps |
| Molybdenum | 94-1 | 1603 | 1300 | 1400 | 1435 | 10.78 | cps |
| Molybdenum | 95-1 | 1960 | 1630 | 1413 | 1668 | 16.51 | cps |
| Molybdenum | 96-1 | 2017 | 1690 | 1667 | 1791 | 10.93 | cps |
| Molybdenum | 97-1 | 1253 | 1070 | 780 | 1034 | 23.07 | cps |
| Molybdenum | 98-1 | 3230 | 2544 | 2304 | 2693 | 17.87 | cps |
| Neodymium | 150-1 | 30 | 27 | 27 | 28 | 6.92 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 893 | 943 | 853 | 897 | 5.03 | cps |
| Phosphorus | 31-2 | 83 | 87 | 97 | 89 | 7.81 | cps |
| Potassium | 39-2 | 12913 | 13009 | 12302 | 12741 | 3.01 | cps |
| Rhodium | 103-1 | 15562460 | 15619567 | 15483628 | 15555218 | 0.44 | cps |
| Rhodium | 103-2 | 5666831 | 5643167 | 5677840 | 5662612 | 0.31 | cps |
| Scandium | 45-1 | 11127491 | 11072012 | 11074482 | 11091328 | 0.28 | cps |
| Scandium | 45-2 | 194925 | 196014 | 196136 | 195692 | 0.34 | cps |
| Selenium | 82-1 | -3 | -30 | 60 | 9 | 519.86 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Silicon | 28-1 | 552574 | 550187 | 546972 | 549911 | 0.51 | cps |
| Silver | 107-1 | 1277 | 1277 | 1160 | 1238 | 5.44 | cps |
| Silver | 109-1 | 1150 | 997 | 1020 | 1056 | 7.83 | cps |
| Sodium | 23-2 | 78985 | 77524 | 77685 | 78065 | 1.03 | cps |
| Strontium | 86-1 | 657 | 673 | 710 | 680 | 4.01 | cps |
| Strontium | 88-1 | 1417 | 1540 | 1457 | 1471 | 4.28 | cps |
| Sulfur | 34-1 | 737293 | 733184 | 737981 | 736153 | 0.35 | cps |
| Terbium | 159-1 | 21390943 | 21324923 | 21431668 | 21382511 | 0.25 | cps |
| Terbium | 159-2 | 6463678 | 6407162 | 6523040 | 6464627 | 0.90 | cps |
| Thallium | 203-1 | 1653 | 1460 | 1340 | 1485 | 10.65 | cps |
| Thallium | 205-1 | 3737 | 3564 | 3394 | 3565 | 4.82 | cps |
| Tin | 118-1 | 3737 | 3701 | 3667 | 3702 | 0.95 | cps |
| Titanium | 47-1 | 1057 | 880 | 817 | 918 | 13.55 | cps |
| Uranium | 238-1 | 690 | 543 | 450 | 561 | 21.56 | cps |



1234

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB021 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB021 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 13:50:25 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 37 | 20 | 13 | 23 | 51.52 | cps |
| Ytterbium | 172-1 | 150 | 130 | 93 | 124 | 23.10 | cps |
| Ytterbium | 172-2 | 20 | 57 | 33 | 37 | 50.62 | cps |
| Ytterbium | 176-1 | 1997 | 2077 | 2074 | 2049 | 2.21 | cps |
| Ytterbium | 176-2 | 287 | 407 | 327 | 340 | 17.97 | cps |
| Yttrium | 89-1 | 28736425 | 28773251 | 28317320 | 28608999 | 0.89 | cps |
| Yttrium | 89-2 | 1801139 | 1820729 | 1780353 | 1800740 | 1.12 | cps |
| Zinc | 66-2 | 333 | 357 | 283 | 324 | 11.55 | cps |
| Zirconium | 90-1 | 1477 | 1507 | 1443 | 1476 | 2.15 | cps |
| Zirconium | 91-1 | 327 | 313 | 327 | 322 | 2.39 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 786934 | 787424 | 783325 | 785894 | 0.28 | cps |
| Antimony | 121-1 | 5301 | 5378 | 5481 | 5387 | 1.68 | cps |
| Arsenic | 75-2 | 8683 | 8599 | 8933 | 8738 | 1.99 | cps |
| Barium | 135-1 | 513366 | 514803 | 513554 | 513908 | 0.15 | cps |
| Barium | 137-1 | 897467 | 896559 | 900540 | 898189 | 0.23 | cps |
| Beryllium | 9-1 | 3550 | 3658 | 3683 | 3630 | 1.94 | cps |
| Bismuth | 209-1 | 13875169 | 13260921 | 13231291 | 13455793 | 2.70 | cps |
| Bismuth | 209-2 | 4459130 | 4193644 | 4973991 | 4542255 | 8.73 | cps |
| Bromine | 81-1 | 6472 | 6602 | 6878 | 6651 | 3.12 | cps |
| Cadmium | 108-1 | 103 | 130 | 137 | 123 | 14.30 | cps |
| Cadmium | 106-1 | 8283 | 7696 | 8072 | 8017 | 3.71 | cps |
| Cadmium | 111-1 | 6165 | 5793 | 6095 | 6018 | 3.29 | cps |
| Calcium | 43-1 | 163865 | 165986 | 165236 | 165029 | 0.65 | cps |
| Calcium | 44-1 | 2751631 | 2782490 | 2752449 | 2762190 | 0.64 | cps |
| Carbon | 12-1 | 3755278 | 3775489 | 3849006 | 3793257 | 1.30 | cps |
| Carbon | 12-2 | 24971 | 25546 | 25329 | 25282 | 1.15 | cps |
| Chlorine | 35-1 | 85416520 | 92934442 | 95239615 | 91196859 | 5.63 | cps |
| Chlorine | 35-2 | 377007 | 383788 | 382155 | 380984 | 0.93 | cps |
| Chromium | 52-2 | 96530 | 96872 | 95899 | 96433 | 0.51 | cps |
| Cobalt | 59-2 | 103369 | 102361 | 101096 | 102275 | 1.11 | cps |
| Copper | 63-2 | 268500 | 267913 | 270868 | 269094 | 0.58 | cps |
| Dysprosium | 156-1 | 38940 | 38896 | 40070 | 39302 | 1.69 | cps |
| Dysprosium | 156-2 | 13450 | 13300 | 12910 | 13220 | 2.11 | cps |
| Erbium | 164-1 | 37245 | 37192 | 36644 | 37027 | 0.90 | cps |
| Erbium | 164-2 | 11418 | 11715 | 11218 | 11451 | 2.18 | cps |
| Gadolinium | 160-1 | 40016 | 40358 | 41524 | 40633 | 1.95 | cps |
| Gadolinium | 160-2 | 15499 | 15746 | 16353 | 15866 | 2.77 | cps |
| Holmium | 165-1 | 21747282 | 21212370 | 20677916 | 21212523 | 2.52 | cps |
| Holmium | 165-2 | 5978041 | 5520067 | 6732015 | 6076708 | 10.07 | cps |
| Indium | 115-1 | 16805816 | 16664419 | 16428827 | 16633020 | 1.14 | cps |
| Indium | 115-2 | 1264795 | 1167322 | 1412911 | 1281676 | 9.65 | cps |
| Iron | 54-2 | 4640873 | 4596754 | 4572174 | 4603267 | 0.76 | cps |
| Iron | 56-2 | 85661732 | 84754087 | 83996755 | 84804192 | 0.98 | cps |
| Iron | 57-2 | 2187726 | 2178328 | 2143375 | 2169810 | 1.08 | cps |
| Krypton | 83-1 | 390 | 377 | 380 | 382 | 1.82 | cps |
| Lead | 206-1 | 191067 | 194698 | 191358 | 192374 | 1.05 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 154180 | 154894 | 154844 | 154639 | 0.26 | cps |
| Lead | 208-1 | 730424 | 739031 | 732268 | 733908 | 0.62 | cps |
| Lithium | 6-1 | 7916853 | 7900556 | 7764911 | 7860774 | 1.06 | cps |
| Magnesium | 24-2 | 1407189 | 1428229 | 1420957 | 1418792 | 0.75 | cps |
| Manganese | 55-2 | 353384 | 349390 | 345747 | 349507 | 1.09 | cps |
| Molybdenum | 94-1 | 6935 | 7165 | 7185 | 7095 | 1.96 | cps |
| Molybdenum | 95-1 | 4081 | 4134 | 4201 | 4138 | 1.45 | cps |
| Molybdenum | 96-1 | 5491 | 5451 | 5612 | 5518 | 1.51 | cps |
| Molybdenum | 97-1 | 2604 | 2484 | 2710 | 2599 | 4.36 | cps |
| Molybdenum | 98-1 | 6928 | 6642 | 6598 | 6723 | 2.67 | cps |
| Neodymium | 150-1 | 41604 | 42086 | 41918 | 41869 | 0.58 | cps |
| Neodymium | 150-2 | 9133 | 9290 | 8800 | 9074 | 2.76 | cps |
| Nickel | 60-2 | 74108 | 73907 | 73411 | 73809 | 0.49 | cps |
| Phosphorus | 31-2 | 1120 | 1087 | 1143 | 1117 | 2.55 | cps |
| Potassium | 39-2 | 53656 | 57768 | 56040 | 55821 | 3.70 | cps |
| Rhodium | 103-1 | 15403632 | 15227061 | 15063333 | 15231342 | 1.12 | cps |
| Rhodium | 103-2 | 5021695 | 4595390 | 5563967 | 5060350 | 9.59 | cps |
| Scandium | 45-1 | 11171588 | 11095183 | 11021964 | 11096245 | 0.67 | cps |
| Scandium | 45-2 | 177590 | 160780 | 197014 | 178462 | 10.16 | cps |
| Selenium | 82-1 | 37 | 143 | 77 | 86 | 62.98 | cps |
| Selenium | 77-2 | 37 | 60 | 53 | 50 | 24.03 | cps |
| Selenium | 78-2 | 47 | 37 | 40 | 41 | 12.39 | cps |
| Silicon | 28-1 | 63034696 | 62269712 | 60978356 | 62094255 | 1.67 | cps |
| Silver | 107-1 | 4924 | 4451 | 4337 | 4571 | 6.81 | cps |
| Silver | 109-1 | 4504 | 4314 | 3984 | 4267 | 6.17 | cps |
| Sodium | 23-2 | 94404 | 95194 | 94978 | 94859 | 0.43 | cps |
| Strontium | 86-1 | 150285 | 152145 | 150981 | 151137 | 0.62 | cps |
| Strontium | 88-1 | 1313137 | 1315579 | 1334872 | 1321196 | 0.90 | cps |
| Sulfur | 34-1 | 713149 | 706556 | 697304 | 705670 | 1.13 | cps |
| Terbium | 159-1 | 21587427 | 21770691 | 21210543 | 21522887 | 1.33 | cps |
| Terbium | 159-2 | 5638770 | 5275075 | 6353839 | 5755895 | 9.54 | cps |
| Thallium | 203-1 | 3157 | 3000 | 2937 | 3032 | 3.74 | cps |
| Thallium | 205-1 | 7609 | 7492 | 7269 | 7457 | 2.32 | cps |
| Tin | 118-1 | 4224 | 3971 | 3774 | 3990 | 5.66 | cps |
| Titanium | 47-1 | 21026 | 45709 | 23942 | 30226 | 44.62 | cps |
| Uranium | 238-1 | 13694 | 13681 | 14278 | 13884 | 2.46 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:53:45 | DataFile Name : | 019AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 89477 | 90071 | 88518 | 89355 | 0.88 | cps |
| Ytterbium | 172-1 | 11061 | 10978 | 10845 | 10961 | 1.00 | cps |
| Ytterbium | 172-2 | 4154 | 4131 | 4177 | 4154 | 0.56 | cps |
| Ytterbium | 176-1 | 8890 | 9150 | 8643 | 8894 | 2.85 | cps |
| Ytterbium | 176-2 | 2894 | 2854 | 2794 | 2847 | 1.77 | cps |
| Yttrium | 89-1 | 29300030 | 28633977 | 28299642 | 28744550 | 1.77 | cps |
| Yttrium | 89-2 | 1653632 | 1521640 | 1814806 | 1663359 | 8.83 | cps |
| Zinc | 66-2 | 39121 | 38923 | 38937 | 38994 | 0.28 | cps |
| Zirconium | 90-1 | 14230 | 16986 | 13248 | 14821 | 13.07 | cps |
| Zirconium | 91-1 | 3421 | 3167 | 3214 | 3267 | 4.13 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 787887 | 793634 | 794972 | 792164 | 0.48 | cps |
| Antimony | 121-1 | 5011 | 5421 | 4978 | 5137 | 4.81 | cps |
| Arsenic | 75-2 | 8706 | 8519 | 8773 | 8666 | 1.52 | cps |
| Barium | 135-1 | 516247 | 517418 | 513193 | 515619 | 0.42 | cps |
| Barium | 137-1 | 903102 | 904596 | 907246 | 904981 | 0.23 | cps |
| Beryllium | 9-1 | 3561 | 3521 | 3472 | 3518 | 1.26 | cps |
| Bismuth | 209-1 | 13341991 | 13263071 | 13500420 | 13368494 | 0.90 | cps |
| Bismuth | 209-2 | 4999734 | 5089382 | 5005155 | 5031424 | 1.00 | cps |
| Bromine | 81-1 | 6548 | 6832 | 6438 | 6606 | 3.07 | cps |
| Cadmium | 108-1 | 130 | 113 | 127 | 123 | 7.15 | cps |
| Cadmium | 106-1 | 8223 | 8099 | 8389 | 8237 | 1.77 | cps |
| Cadmium | 111-1 | 6175 | 5967 | 6274 | 6138 | 2.55 | cps |
| Calcium | 43-1 | 165759 | 164600 | 166305 | 165555 | 0.53 | cps |
| Calcium | 44-1 | 2809852 | 2824930 | 2755439 | 2796740 | 1.31 | cps |
| Carbon | 12-1 | 3764537 | 3800606 | 3767791 | 3777644 | 0.53 | cps |
| Carbon | 12-2 | 24798 | 25242 | 24387 | 24809 | 1.72 | cps |
| Chlorine | 35-1 | 92171485 | 98496822 | 101397535 | 97355281 | 4.85 | cps |
| Chlorine | 35-2 | 388465 | 390742 | 394418 | 391208 | 0.77 | cps |
| Chromium | 52-2 | 95956 | 96882 | 97127 | 96655 | 0.64 | cps |
| Cobalt | 59-2 | 102291 | 102656 | 101965 | 102304 | 0.34 | cps |
| Copper | 63-2 | 272221 | 272737 | 273649 | 272869 | 0.27 | cps |
| Dysprosium | 156-1 | 39725 | 39946 | 39261 | 39644 | 0.88 | cps |
| Dysprosium | 156-2 | 13157 | 13093 | 13393 | 13214 | 1.20 | cps |
| Erbium | 164-1 | 36941 | 37834 | 37570 | 37448 | 1.22 | cps |
| Erbium | 164-2 | 11322 | 11615 | 11542 | 11493 | 1.33 | cps |
| Gadolinium | 160-1 | 41401 | 40421 | 41775 | 41199 | 1.70 | cps |
| Gadolinium | 160-2 | 16126 | 16033 | 15976 | 16045 | 0.47 | cps |
| Holmium | 165-1 | 21192754 | 20869823 | 21286825 | 21116467 | 1.04 | cps |
| Holmium | 165-2 | 6702922 | 6701684 | 6707447 | 6704018 | 0.05 | cps |
| Indium | 115-1 | 16970463 | 16555997 | 16425235 | 16650565 | 1.71 | cps |
| Indium | 115-2 | 1418939 | 1422114 | 1426504 | 1422519 | 0.27 | cps |
| Iron | 54-2 | 4758906 | 4681142 | 4714342 | 4718130 | 0.83 | cps |
| Iron | 56-2 | 85727040 | 85295132 | 86172644 | 85731605 | 0.51 | cps |
| Iron | 57-2 | 2153417 | 2189400 | 2184073 | 2175630 | 0.89 | cps |
| Krypton | 83-1 | 347 | 320 | 333 | 333 | 4.00 | cps |
| Lead | 206-1 | 191020 | 190852 | 191727 | 191200 | 0.24 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 155231 | 155657 | 154311 | 155066 | 0.44 | cps |
| Lead | 208-1 | 732461 | 734613 | 731401 | 732825 | 0.22 | cps |
| Lithium | 6-1 | 8068817 | 7925836 | 7936917 | 7977190 | 1.00 | cps |
| Magnesium | 24-2 | 1413547 | 1415420 | 1408880 | 1412615 | 0.24 | cps |
| Manganese | 55-2 | 350951 | 349835 | 351926 | 350904 | 0.30 | cps |
| Molybdenum | 94-1 | 7143 | 7216 | 7092 | 7150 | 0.87 | cps |
| Molybdenum | 95-1 | 4121 | 4141 | 3921 | 4061 | 3.00 | cps |
| Molybdenum | 96-1 | 6168 | 5401 | 5518 | 5696 | 7.26 | cps |
| Molybdenum | 97-1 | 2540 | 2377 | 2567 | 2495 | 4.12 | cps |
| Molybdenum | 98-1 | 6465 | 6418 | 6815 | 6566 | 3.30 | cps |
| Neodymium | 150-1 | 42674 | 42975 | 42808 | 42819 | 0.35 | cps |
| Neodymium | 150-2 | 9180 | 9217 | 9046 | 9148 | 0.98 | cps |
| Nickel | 60-2 | 73636 | 74051 | 74185 | 73957 | 0.39 | cps |
| Phosphorus | 31-2 | 1017 | 1027 | 1013 | 1019 | 0.68 | cps |
| Potassium | 39-2 | 55365 | 53325 | 53503 | 54064 | 2.09 | cps |
| Rhodium | 103-1 | 15652344 | 15521410 | 15464494 | 15546083 | 0.62 | cps |
| Rhodium | 103-2 | 5668511 | 5587718 | 5595542 | 5617257 | 0.79 | cps |
| Scandium | 45-1 | 11434626 | 11338657 | 11225776 | 11333020 | 0.92 | cps |
| Scandium | 45-2 | 200289 | 196235 | 201218 | 199247 | 1.33 | cps |
| Selenium | 82-1 | 133 | 113 | 113 | 120 | 9.62 | cps |
| Selenium | 77-2 | 83 | 63 | 53 | 67 | 22.91 | cps |
| Selenium | 78-2 | 70 | 50 | 40 | 53 | 28.64 | cps |
| Silicon | 28-1 | 61625207 | 62732102 | 64373659 | 62910323 | 2.20 | cps |
| Silver | 107-1 | 3891 | 4077 | 4241 | 4070 | 4.30 | cps |
| Silver | 109-1 | 3307 | 3694 | 3844 | 3615 | 7.66 | cps |
| Sodium | 23-2 | 88727 | 89616 | 89549 | 89298 | 0.55 | cps |
| Strontium | 86-1 | 152357 | 153306 | 152864 | 152842 | 0.31 | cps |
| Strontium | 88-1 | 1323988 | 1328012 | 1332306 | 1328102 | 0.31 | cps |
| Sulfur | 34-1 | 685435 | 682378 | 678770 | 682195 | 0.49 | cps |
| Terbium | 159-1 | 21689531 | 21520336 | 21356510 | 21522126 | 0.77 | cps |
| Terbium | 159-2 | 6413932 | 6484973 | 6479243 | 6459383 | 0.61 | cps |
| Thallium | 203-1 | 2620 | 2814 | 3087 | 2840 | 8.26 | cps |
| Thallium | 205-1 | 6185 | 6535 | 7436 | 6718 | 9.60 | cps |
| Tin | 118-1 | 3847 | 3767 | 3937 | 3851 | 2.21 | cps |
| Titanium | 47-1 | 30264 | 27117 | 29291 | 28891 | 5.58 | cps |
| Uranium | 238-1 | 13738 | 14022 | 13637 | 13799 | 1.45 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 13:57:03 | DataFile Name : | 020AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 90581 | 90282 | 89149 | 90004 | 0.84 | cps |
| Ytterbium | 172-1 | 11041 | 10347 | 10908 | 10766 | 3.42 | cps |
| Ytterbium | 172-2 | 3994 | 4127 | 3984 | 4035 | 1.98 | cps |
| Ytterbium | 176-1 | 8369 | 8786 | 8256 | 8471 | 3.30 | cps |
| Ytterbium | 176-2 | 2807 | 2760 | 2930 | 2833 | 3.10 | cps |
| Yttrium | 89-1 | 29025150 | 29242992 | 29117978 | 29128707 | 0.38 | cps |
| Yttrium | 89-2 | 1855512 | 1812381 | 1867467 | 1845120 | 1.57 | cps |
| Zinc | 66-2 | 38536 | 39388 | 39010 | 38978 | 1.10 | cps |
| Zirconium | 90-1 | 12179 | 13409 | 13277 | 12955 | 5.21 | cps |
| Zirconium | 91-1 | 14334 | 2964 | 3010 | 6769 | 96.78 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 158094 | 157917 | 156052 | 157354 | 0.72 | cps |
| Antimony | 121-1 | 1077 | 1250 | 1027 | 1118 | 10.49 | cps |
| Arsenic | 75-2 | 1737 | 1743 | 1727 | 1736 | 0.48 | cps |
| Barium | 135-1 | 103189 | 103324 | 103888 | 103467 | 0.36 | cps |
| Barium | 137-1 | 179713 | 180557 | 180221 | 180164 | 0.24 | cps |
| Beryllium | 9-1 | 1075 | 1171 | 1074 | 1107 | 5.05 | cps |
| Bismuth | 209-1 | 13344141 | 13335717 | 13371543 | 13350467 | 0.14 | cps |
| Bismuth | 209-2 | 5027330 | 4999458 | 4986469 | 5004419 | 0.42 | cps |
| Bromine | 81-1 | 5111 | 4868 | 4928 | 4969 | 2.55 | cps |
| Cadmium | 108-1 | 30 | 57 | 40 | 42 | 31.91 | cps |
| Cadmium | 106-1 | 7886 | 7315 | 7852 | 7684 | 4.17 | cps |
| Cadmium | 111-1 | 5676 | 5221 | 5569 | 5488 | 4.33 | cps |
| Calcium | 43-1 | 33542 | 33730 | 33883 | 33718 | 0.51 | cps |
| Calcium | 44-1 | 566526 | 566097 | 565576 | 566066 | 0.08 | cps |
| Carbon | 12-1 | 3401329 | 3372305 | 3410232 | 3394622 | 0.58 | cps |
| Carbon | 12-2 | 22294 | 22017 | 22247 | 22186 | 0.67 | cps |
| Chlorine | 35-1 | 23640878 | 24282560 | 24549559 | 24157665 | 1.93 | cps |
| Chlorine | 35-2 | 89940 | 90937 | 90430 | 90436 | 0.55 | cps |
| Chromium | 52-2 | 19470 | 19757 | 19971 | 19733 | 1.27 | cps |
| Cobalt | 59-2 | 20738 | 20665 | 20241 | 20548 | 1.31 | cps |
| Copper | 63-2 | 56682 | 56867 | 56244 | 56598 | 0.56 | cps |
| Dysprosium | 156-1 | 7832 | 8103 | 8056 | 7997 | 1.81 | cps |
| Dysprosium | 156-2 | 2544 | 2527 | 2537 | 2536 | 0.33 | cps |
| Erbium | 164-1 | 7922 | 7499 | 7646 | 7689 | 2.80 | cps |
| Erbium | 164-2 | 2344 | 2267 | 2350 | 2320 | 2.00 | cps |
| Gadolinium | 160-1 | 8333 | 8456 | 8196 | 8328 | 1.56 | cps |
| Gadolinium | 160-2 | 3320 | 2990 | 3154 | 3155 | 5.23 | cps |
| Holmium | 165-1 | 21130163 | 21033594 | 21145315 | 21103024 | 0.29 | cps |
| Holmium | 165-2 | 6744963 | 6721301 | 6754975 | 6740413 | 0.26 | cps |
| Indium | 115-1 | 16624632 | 16656734 | 16653562 | 16644976 | 0.11 | cps |
| Indium | 115-2 | 1420798 | 1433569 | 1432512 | 1428960 | 0.50 | cps |
| Iron | 54-2 | 922965 | 914357 | 927957 | 921760 | 0.75 | cps |
| Iron | 56-2 | 17298692 | 17169068 | 16934226 | 17133995 | 1.08 | cps |
| Iron | 57-2 | 425449 | 419573 | 420960 | 421994 | 0.73 | cps |
| Krypton | 83-1 | 347 | 300 | 313 | 320 | 7.51 | cps |
| Lead | 206-1 | 41296 | 41406 | 41787 | 41496 | 0.62 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 34436 | 33824 | 34593 | 34284 | 1.18 | cps |
| Lead | 208-1 | 161422 | 159033 | 162024 | 160826 | 0.98 | cps |
| Lithium | 6-1 | 8112199 | 7784870 | 7781458 | 7892842 | 2.41 | cps |
| Magnesium | 24-2 | 277438 | 280587 | 277735 | 278587 | 0.62 | cps |
| Manganese | 55-2 | 70402 | 72228 | 69880 | 70837 | 1.74 | cps |
| Molybdenum | 94-1 | 1743 | 1914 | 2027 | 1895 | 7.53 | cps |
| Molybdenum | 95-1 | 973 | 947 | 927 | 949 | 2.47 | cps |
| Molybdenum | 96-1 | 1393 | 1203 | 1270 | 1289 | 7.48 | cps |
| Molybdenum | 97-1 | 727 | 590 | 613 | 643 | 11.36 | cps |
| Molybdenum | 98-1 | 1640 | 1483 | 1610 | 1578 | 5.27 | cps |
| Neodymium | 150-1 | 8463 | 8123 | 8276 | 8287 | 2.06 | cps |
| Neodymium | 150-2 | 1787 | 1790 | 1823 | 1800 | 1.13 | cps |
| Nickel | 60-2 | 15402 | 15345 | 15475 | 15407 | 0.42 | cps |
| Phosphorus | 31-2 | 283 | 293 | 287 | 288 | 1.77 | cps |
| Potassium | 39-2 | 19213 | 18929 | 19321 | 19154 | 1.06 | cps |
| Rhodium | 103-1 | 15608584 | 15555282 | 15515258 | 15559708 | 0.30 | cps |
| Rhodium | 103-2 | 5648208 | 5651796 | 5566470 | 5622158 | 0.86 | cps |
| Scandium | 45-1 | 11277031 | 11154690 | 11189552 | 11207091 | 0.56 | cps |
| Scandium | 45-2 | 193460 | 194045 | 195111 | 194205 | 0.43 | cps |
| Selenium | 82-1 | -3 | 0 | 3 | 0 | 0.00 | cps |
| Selenium | 77-2 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Selenium | 78-2 | 20 | 7 | 17 | 14 | 48.02 | cps |
| Silicon | 28-1 | 15108019 | 12971658 | 12964946 | 13681541 | 9.03 | cps |
| Silver | 107-1 | 860 | 983 | 963 | 936 | 7.08 | cps |
| Silver | 109-1 | 850 | 813 | 883 | 849 | 4.13 | cps |
| Sodium | 23-2 | 68466 | 68333 | 67070 | 67956 | 1.13 | cps |
| Strontium | 86-1 | 30884 | 31415 | 31024 | 31108 | 0.88 | cps |
| Strontium | 88-1 | 266199 | 268715 | 268934 | 267950 | 0.57 | cps |
| Sulfur | 34-1 | 660483 | 656784 | 652411 | 656559 | 0.62 | cps |
| Terbium | 159-1 | 21170761 | 21242148 | 21264433 | 21225781 | 0.23 | cps |
| Terbium | 159-2 | 6384698 | 6380939 | 6412947 | 6392861 | 0.27 | cps |
| Thallium | 203-1 | 1180 | 1093 | 1073 | 1116 | 5.08 | cps |
| Thallium | 205-1 | 2680 | 2674 | 2440 | 2598 | 5.26 | cps |
| Tin | 118-1 | 2827 | 2620 | 2607 | 2685 | 4.60 | cps |
| Titanium | 47-1 | 4184 | 4935 | 5757 | 4959 | 15.87 | cps |
| Uranium | 238-1 | 2600 | 2660 | 2747 | 2669 | 2.76 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-02-11 14:00:19 | DataFile Name : | 021AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17631 | 17644 | 18419 | 17898 | 2.52 | cps |
| Ytterbium | 172-1 | 2350 | 2194 | 2350 | 2298 | 3.94 | cps |
| Ytterbium | 172-2 | 827 | 923 | 843 | 864 | 5.98 | cps |
| Ytterbium | 176-1 | 3337 | 3337 | 3364 | 3346 | 0.46 | cps |
| Ytterbium | 176-2 | 770 | 820 | 817 | 802 | 3.48 | cps |
| Yttrium | 89-1 | 28809450 | 28723675 | 28621494 | 28718207 | 0.33 | cps |
| Yttrium | 89-2 | 1809980 | 1831621 | 1840499 | 1827367 | 0.86 | cps |
| Zinc | 66-2 | 8076 | 8242 | 7992 | 8103 | 1.57 | cps |
| Zirconium | 90-1 | 3280 | 3127 | 3357 | 3255 | 3.60 | cps |
| Zirconium | 91-1 | 1277 | 847 | 760 | 961 | 28.81 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 797069 | 797291 | 790296 | 794885 | 0.50 | cps |
| Antimony | 121-1 | 183308 | 183810 | 183605 | 183574 | 0.14 | cps |
| Arsenic | 75-2 | 9677 | 9610 | 9510 | 9599 | 0.87 | cps |
| Barium | 135-1 | 1334111 | 1319852 | 1333404 | 1329122 | 0.60 | cps |
| Barium | 137-1 | 2405793 | 2347400 | 2413247 | 2388813 | 1.51 | cps |
| Beryllium | 9-1 | 31781 | 32166 | 32006 | 31984 | 0.60 | cps |
| Bismuth | 209-1 | 13211981 | 13356044 | 13213564 | 13260530 | 0.62 | cps |
| Bismuth | 209-2 | 4981856 | 5106176 | 5018677 | 5035570 | 1.27 | cps |
| Bromine | 81-1 | 6328 | 6175 | 6275 | 6259 | 1.24 | cps |
| Cadmium | 108-1 | 1657 | 1747 | 1613 | 1672 | 4.07 | cps |
| Cadmium | 106-1 | 9914 | 9710 | 9560 | 9728 | 1.82 | cps |
| Cadmium | 111-1 | 28014 | 27188 | 27453 | 27552 | 1.53 | cps |
| Calcium | 43-1 | 190726 | 190399 | 190862 | 190662 | 0.12 | cps |
| Calcium | 44-1 | 3061299 | 3059579 | 3020440 | 3047106 | 0.76 | cps |
| Carbon | 12-1 | 3552608 | 3489118 | 3554285 | 3532004 | 1.05 | cps |
| Carbon | 12-2 | 23208 | 22748 | 23101 | 23019 | 1.05 | cps |
| Chlorine | 35-1 | 98296909 | 105543818 | 106494978 | 103445235 | 4.33 | cps |
| Chlorine | 35-2 | 413648 | 409340 | 412045 | 411678 | 0.53 | cps |
| Chromium | 52-2 | 163735 | 164416 | 165323 | 164491 | 0.48 | cps |
| Cobalt | 59-2 | 434104 | 428666 | 432375 | 431715 | 0.64 | cps |
| Copper | 63-2 | 396899 | 398399 | 391909 | 395736 | 0.86 | cps |
| Dysprosium | 156-1 | 38639 | 38184 | 38943 | 38589 | 0.99 | cps |
| Dysprosium | 156-2 | 13013 | 13484 | 13103 | 13200 | 1.89 | cps |
| Erbium | 164-1 | 36884 | 37108 | 37115 | 37036 | 0.35 | cps |
| Erbium | 164-2 | 11258 | 11512 | 11548 | 11439 | 1.38 | cps |
| Gadolinium | 160-1 | 40632 | 40144 | 40585 | 40453 | 0.67 | cps |
| Gadolinium | 160-2 | 15916 | 15215 | 16063 | 15732 | 2.88 | cps |
| Holmium | 165-1 | 21287211 | 21277550 | 21040518 | 21201759 | 0.66 | cps |
| Holmium | 165-2 | 6716757 | 6807545 | 6765005 | 6763102 | 0.67 | cps |
| Indium | 115-1 | 16660537 | 16584356 | 16495135 | 16580009 | 0.50 | cps |
| Indium | 115-2 | 1416180 | 1461441 | 1431521 | 1436381 | 1.60 | cps |
| Iron | 54-2 | 4669113 | 4567689 | 4580795 | 4605866 | 1.20 | cps |
| Iron | 56-2 | 83977314 | 84314410 | 84127760 | 84139828 | 0.20 | cps |
| Iron | 57-2 | 2137003 | 2144325 | 2099925 | 2127084 | 1.12 | cps |
| Krypton | 83-1 | 317 | 417 | 323 | 352 | 15.87 | cps |
| Lead | 206-1 | 215290 | 217253 | 216902 | 216481 | 0.48 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 176817 | 177127 | 176811 | 176918 | 0.10 | cps |
| Lead | 208-1 | 829800 | 835145 | 830012 | 831652 | 0.36 | cps |
| Lithium | 6-1 | 8126044 | 7823808 | 7982229 | 7977360 | 1.90 | cps |
| Magnesium | 24-2 | 1415658 | 1394885 | 1379623 | 1396722 | 1.30 | cps |
| Manganese | 55-2 | 414044 | 411582 | 413682 | 413103 | 0.32 | cps |
| Molybdenum | 94-1 | 266772 | 266921 | 269245 | 267646 | 0.52 | cps |
| Molybdenum | 95-1 | 462600 | 464936 | 465465 | 464334 | 0.33 | cps |
| Molybdenum | 96-1 | 492747 | 500256 | 498231 | 497078 | 0.78 | cps |
| Molybdenum | 97-1 | 287678 | 288080 | 289234 | 288331 | 0.28 | cps |
| Molybdenum | 98-1 | 746046 | 755861 | 747095 | 749667 | 0.72 | cps |
| Neodymium | 150-1 | 41424 | 41655 | 42153 | 41744 | 0.89 | cps |
| Neodymium | 150-2 | 8693 | 9063 | 8986 | 8914 | 2.19 | cps |
| Nickel | 60-2 | 165041 | 164741 | 164987 | 164923 | 0.10 | cps |
| Phosphorus | 31-2 | 1077 | 1143 | 1167 | 1129 | 4.14 | cps |
| Potassium | 39-2 | 53054 | 53038 | 51622 | 52572 | 1.56 | cps |
| Rhodium | 103-1 | 15706758 | 15715586 | 15271326 | 15564557 | 1.63 | cps |
| Rhodium | 103-2 | 5548197 | 5693487 | 5588961 | 5610215 | 1.34 | cps |
| Scandium | 45-1 | 11277452 | 11423889 | 11295612 | 11332318 | 0.70 | cps |
| Scandium | 45-2 | 198222 | 202026 | 198590 | 199613 | 1.05 | cps |
| Selenium | 82-1 | 627 | 567 | 600 | 598 | 5.03 | cps |
| Selenium | 77-2 | 63 | 67 | 73 | 68 | 7.51 | cps |
| Selenium | 78-2 | 63 | 53 | 70 | 62 | 13.48 | cps |
| Silicon | 28-1 | 65918487 | 61456946 | 61035739 | 62803724 | 4.31 | cps |
| Silver | 107-1 | 108510 | 109158 | 109419 | 109029 | 0.43 | cps |
| Silver | 109-1 | 103518 | 103119 | 105336 | 103991 | 1.14 | cps |
| Sodium | 23-2 | 84898 | 85029 | 85676 | 85201 | 0.49 | cps |
| Strontium | 86-1 | 5875990 | 5854101 | 5748111 | 5826067 | 1.17 | cps |
| Strontium | 88-1 | 50649066 | 50575569 | 50381243 | 50535293 | 0.27 | cps |
| Sulfur | 34-1 | 643974 | 647530 | 639202 | 643569 | 0.65 | cps |
| Terbium | 159-1 | 21510672 | 21514100 | 21172030 | 21398934 | 0.92 | cps |
| Terbium | 159-2 | 6339971 | 6636163 | 6450137 | 6475424 | 2.31 | cps |
| Thallium | 203-1 | 86338 | 88643 | 88247 | 87743 | 1.41 | cps |
| Thallium | 205-1 | 210506 | 213957 | 211916 | 212126 | 0.82 | cps |
| Tin | 118-1 | 3661 | 3377 | 3434 | 3490 | 4.30 | cps |
| Titanium | 47-1 | 21618 | 38599 | 48649 | 36289 | 37.65 | cps |
| Uranium | 238-1 | 13547 | 14045 | 13671 | 13754 | 1.88 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DLX2 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 2 |
| Date & Time Acquired : | 2025-02-11 14:03:40 | DataFile Name : | 022AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 219071 | 218766 | 220072 | 219303 | 0.31 | cps |
| Ytterbium | 172-1 | 10741 | 11075 | 10751 | 10856 | 1.75 | cps |
| Ytterbium | 172-2 | 4074 | 4021 | 3934 | 4010 | 1.76 | cps |
| Ytterbium | 176-1 | 8640 | 8469 | 8496 | 8535 | 1.07 | cps |
| Ytterbium | 176-2 | 3034 | 2977 | 2830 | 2947 | 3.56 | cps |
| Yttrium | 89-1 | 29245657 | 29121253 | 28759335 | 29042082 | 0.87 | cps |
| Yttrium | 89-2 | 1797706 | 1886557 | 1838348 | 1840870 | 2.42 | cps |
| Zinc | 66-2 | 65862 | 65202 | 65574 | 65546 | 0.50 | cps |
| Zirconium | 90-1 | 13424 | 13010 | 13737 | 13390 | 2.73 | cps |
| Zirconium | 91-1 | 3120 | 3067 | 4670 | 3619 | 25.15 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90 | 117 | 83 | 97 | 18.25 | cps |
| Antimony | 121-1 | 180 | 133 | 137 | 150 | 17.35 | cps |
| Arsenic | 75-2 | 10 | 17 | 7 | 11 | 45.82 | cps |
| Barium | 135-1 | 217 | 227 | 177 | 207 | 12.80 | cps |
| Barium | 137-1 | 257 | 250 | 283 | 263 | 6.70 | cps |
| Beryllium | 9-1 | 390 | 401 | 380 | 390 | 2.72 | cps |
| Bismuth | 209-1 | 13670634 | 13653845 | 13398026 | 13574169 | 1.13 | cps |
| Bismuth | 209-2 | 5187091 | 5095157 | 5064013 | 5115420 | 1.25 | cps |
| Bromine | 81-1 | 4551 | 4274 | 4357 | 4394 | 3.23 | cps |
| Cadmium | 108-1 | 33 | 33 | 33 | 33 | 0.00 | cps |
| Cadmium | 106-1 | 8122 | 7632 | 8259 | 8005 | 4.12 | cps |
| Cadmium | 111-1 | 5679 | 5366 | 5785 | 5610 | 3.88 | cps |
| Calcium | 43-1 | 367 | 463 | 427 | 419 | 11.65 | cps |
| Calcium | 44-1 | 25630 | 26645 | 25937 | 26070 | 2.00 | cps |
| Carbon | 12-1 | 3605543 | 3592543 | 3579270 | 3592452 | 0.37 | cps |
| Carbon | 12-2 | 23839 | 23886 | 24090 | 23938 | 0.56 | cps |
| Chlorine | 35-1 | 1338505 | 1291060 | 1256272 | 1295279 | 3.19 | cps |
| Chlorine | 35-2 | 4357 | 4277 | 4241 | 4292 | 1.39 | cps |
| Chromium | 52-2 | 730 | 787 | 717 | 744 | 4.99 | cps |
| Cobalt | 59-2 | 170 | 140 | 170 | 160 | 10.83 | cps |
| Copper | 63-2 | 2744 | 2640 | 2657 | 2680 | 2.07 | cps |
| Dysprosium | 156-1 | 50 | 40 | 40 | 43 | 13.32 | cps |
| Dysprosium | 156-2 | 0 | 7 | 10 | 6 | 91.64 | cps |
| Erbium | 164-1 | 90 | 107 | 127 | 108 | 17.03 | cps |
| Erbium | 164-2 | 20 | 37 | 33 | 30 | 29.40 | cps |
| Gadolinium | 160-1 | 100 | 113 | 110 | 108 | 6.44 | cps |
| Gadolinium | 160-2 | 23 | 20 | 23 | 22 | 8.65 | cps |
| Holmium | 165-1 | 20787672 | 20804899 | 21211138 | 20934570 | 1.14 | cps |
| Holmium | 165-2 | 6718900 | 6698914 | 6811720 | 6743178 | 0.89 | cps |
| Indium | 115-1 | 16835605 | 16913182 | 16632480 | 16793756 | 0.86 | cps |
| Indium | 115-2 | 1447892 | 1446196 | 1447121 | 1447070 | 0.06 | cps |
| Iron | 54-2 | 513 | 523 | 503 | 513 | 1.95 | cps |
| Iron | 56-2 | 8062 | 8066 | 7946 | 8025 | 0.85 | cps |
| Iron | 57-2 | 163 | 257 | 247 | 222 | 23.06 | cps |
| Krypton | 83-1 | 297 | 307 | 240 | 281 | 12.79 | cps |
| Lead | 206-1 | 2837 | 2717 | 2700 | 2751 | 2.71 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2294 | 2274 | 2110 | 2226 | 4.52 | cps |
| Lead | 208-1 | 10685 | 10912 | 10402 | 10666 | 2.40 | cps |
| Lithium | 6-1 | 7863288 | 8008021 | 7889288 | 7920199 | 0.97 | cps |
| Magnesium | 24-2 | 2780 | 2687 | 2794 | 2754 | 2.11 | cps |
| Manganese | 55-2 | 160 | 170 | 173 | 168 | 4.14 | cps |
| Molybdenum | 94-1 | 433 | 457 | 460 | 450 | 3.23 | cps |
| Molybdenum | 95-1 | 187 | 207 | 167 | 187 | 10.71 | cps |
| Molybdenum | 96-1 | 230 | 313 | 190 | 244 | 25.74 | cps |
| Molybdenum | 97-1 | 130 | 93 | 103 | 109 | 17.41 | cps |
| Molybdenum | 98-1 | 263 | 223 | 260 | 249 | 8.92 | cps |
| Neodymium | 150-1 | 17 | 20 | 17 | 18 | 10.81 | cps |
| Neodymium | 150-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 873 | 867 | 863 | 868 | 0.59 | cps |
| Phosphorus | 31-2 | 103 | 67 | 53 | 74 | 34.78 | cps |
| Potassium | 39-2 | 10407 | 10250 | 10531 | 10396 | 1.35 | cps |
| Rhodium | 103-1 | 15457629 | 15488946 | 15541379 | 15495985 | 0.27 | cps |
| Rhodium | 103-2 | 5692630 | 5711550 | 5675582 | 5693254 | 0.32 | cps |
| Scandium | 45-1 | 10925194 | 11284694 | 11300287 | 11170058 | 1.90 | cps |
| Scandium | 45-2 | 194836 | 196880 | 198941 | 196885 | 1.04 | cps |
| Selenium | 82-1 | 7 | -37 | 63 | 11 | 451.11 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 17 | 0 | 17 | 11 | 86.60 | cps |
| Silicon | 28-1 | 529888 | 532878 | 532114 | 531627 | 0.29 | cps |
| Silver | 107-1 | 223 | 227 | 293 | 248 | 15.94 | cps |
| Silver | 109-1 | 133 | 170 | 120 | 141 | 18.35 | cps |
| Sodium | 23-2 | 61556 | 60301 | 60963 | 60940 | 1.03 | cps |
| Strontium | 86-1 | 613 | 557 | 613 | 594 | 5.50 | cps |
| Strontium | 88-1 | 1180 | 1227 | 1390 | 1266 | 8.71 | cps |
| Sulfur | 34-1 | 689294 | 691328 | 702327 | 694316 | 1.01 | cps |
| Terbium | 159-1 | 21541026 | 21814210 | 21328514 | 21561250 | 1.13 | cps |
| Terbium | 159-2 | 6474682 | 6448495 | 6461725 | 6461634 | 0.20 | cps |
| Thallium | 203-1 | 780 | 743 | 707 | 743 | 4.93 | cps |
| Thallium | 205-1 | 1820 | 1787 | 1757 | 1788 | 1.77 | cps |
| Tin | 118-1 | 3130 | 3120 | 3107 | 3119 | 0.38 | cps |
| Titanium | 47-1 | 523 | 583 | 487 | 531 | 9.19 | cps |
| Uranium | 238-1 | 53 | 23 | 20 | 32 | 56.98 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:15:28 | DataFile Name : | 023CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 7 | 17 | 10 | 11 | 45.82 | cps |
| Ytterbium | 172-1 | 127 | 117 | 123 | 122 | 4.17 | cps |
| Ytterbium | 172-2 | 40 | 47 | 40 | 42 | 9.12 | cps |
| Ytterbium | 176-1 | 1900 | 1920 | 2160 | 1994 | 7.26 | cps |
| Ytterbium | 176-2 | 373 | 260 | 303 | 312 | 18.32 | cps |
| Yttrium | 89-1 | 28024745 | 28083446 | 28461445 | 28189879 | 0.84 | cps |
| Yttrium | 89-2 | 1869135 | 1819412 | 1844663 | 1844404 | 1.35 | cps |
| Zinc | 66-2 | 277 | 207 | 200 | 228 | 18.65 | cps |
| Zirconium | 90-1 | 900 | 993 | 1083 | 992 | 9.24 | cps |
| Zirconium | 91-1 | 267 | 200 | 200 | 222 | 17.32 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2977 | 2987 | 2840 | 2935 | 2.79 | cps |
| Antimony | 121-1 | 75366 | 75648 | 74682 | 75232 | 0.66 | cps |
| Arsenic | 75-2 | 747 | 730 | 723 | 733 | 1.64 | cps |
| Barium | 135-1 | 87701 | 88611 | 88033 | 88115 | 0.52 | cps |
| Barium | 137-1 | 150924 | 152317 | 152849 | 152030 | 0.65 | cps |
| Beryllium | 9-1 | 13068 | 12988 | 12857 | 12971 | 0.82 | cps |
| Bismuth | 209-1 | 13613427 | 13381374 | 13318186 | 13437662 | 1.16 | cps |
| Bismuth | 209-2 | 5172859 | 5024255 | 5066970 | 5088028 | 1.50 | cps |
| Bromine | 81-1 | 4427 | 4431 | 4507 | 4455 | 1.02 | cps |
| Cadmium | 108-1 | 933 | 797 | 850 | 860 | 8.01 | cps |
| Cadmium | 106-1 | 9193 | 9080 | 9583 | 9285 | 2.85 | cps |
| Cadmium | 111-1 | 14995 | 15028 | 15487 | 15170 | 1.81 | cps |
| Calcium | 43-1 | 59516 | 60366 | 59526 | 59802 | 0.82 | cps |
| Calcium | 44-1 | 971725 | 978430 | 977811 | 975989 | 0.38 | cps |
| Carbon | 12-1 | 3703673 | 3698098 | 3626819 | 3676197 | 1.17 | cps |
| Carbon | 12-2 | 24404 | 24554 | 24253 | 24404 | 0.62 | cps |
| Chlorine | 35-1 | 2471597 | 2683294 | 2719997 | 2624963 | 5.11 | cps |
| Chlorine | 35-2 | 10731 | 10360 | 10807 | 10633 | 2.25 | cps |
| Chromium | 52-2 | 15101 | 15475 | 15095 | 15224 | 1.43 | cps |
| Cobalt | 59-2 | 14524 | 14821 | 14411 | 14585 | 1.45 | cps |
| Copper | 63-2 | 27427 | 27417 | 27083 | 27309 | 0.72 | cps |
| Dysprosium | 156-1 | 53 | 60 | 20 | 44 | 48.22 | cps |
| Dysprosium | 156-2 | 13 | 10 | 3 | 9 | 57.30 | cps |
| Erbium | 164-1 | 127 | 100 | 127 | 118 | 13.07 | cps |
| Erbium | 164-2 | 27 | 27 | 33 | 29 | 13.31 | cps |
| Gadolinium | 160-1 | 83 | 97 | 123 | 101 | 20.15 | cps |
| Gadolinium | 160-2 | 17 | 0 | 13 | 10 | 88.20 | cps |
| Holmium | 165-1 | 21165149 | 21009167 | 20945289 | 21039869 | 0.54 | cps |
| Holmium | 165-2 | 6931859 | 6694296 | 6726824 | 6784326 | 1.90 | cps |
| Indium | 115-1 | 17125488 | 16701437 | 16724763 | 16850563 | 1.41 | cps |
| Indium | 115-2 | 1468491 | 1452864 | 1437365 | 1452907 | 1.07 | cps |
| Iron | 54-2 | 61029 | 61883 | 61582 | 61498 | 0.70 | cps |
| Iron | 56-2 | 1123086 | 1129415 | 1122975 | 1125159 | 0.33 | cps |
| Iron | 57-2 | 28629 | 27988 | 28135 | 28250 | 1.19 | cps |
| Krypton | 83-1 | 287 | 307 | 260 | 284 | 8.23 | cps |
| Lead | 206-1 | 31699 | 32798 | 32370 | 32289 | 1.72 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27937 | 27736 | 28835 | 28170 | 2.08 | cps |
| Lead | 208-1 | 127395 | 129665 | 129344 | 128801 | 0.95 | cps |
| Lithium | 6-1 | 7987905 | 7860001 | 7945430 | 7931112 | 0.82 | cps |
| Magnesium | 24-2 | 249722 | 250900 | 251155 | 250592 | 0.31 | cps |
| Manganese | 55-2 | 3110 | 3117 | 3124 | 3117 | 0.21 | cps |
| Molybdenum | 94-1 | 133130 | 133298 | 133321 | 133250 | 0.08 | cps |
| Molybdenum | 95-1 | 194910 | 196405 | 194471 | 195262 | 0.52 | cps |
| Molybdenum | 96-1 | 211036 | 212659 | 210606 | 211434 | 0.51 | cps |
| Molybdenum | 97-1 | 120998 | 122092 | 120817 | 121302 | 0.57 | cps |
| Molybdenum | 98-1 | 310432 | 313712 | 312357 | 312167 | 0.53 | cps |
| Neodymium | 150-1 | 17 | 37 | 17 | 23 | 49.48 | cps |
| Neodymium | 150-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Nickel | 60-2 | 4828 | 4724 | 4951 | 4834 | 2.35 | cps |
| Phosphorus | 31-2 | 250 | 280 | 220 | 250 | 12.00 | cps |
| Potassium | 39-2 | 145232 | 145737 | 146396 | 145788 | 0.40 | cps |
| Rhodium | 103-1 | 15702396 | 15603961 | 15735173 | 15680510 | 0.44 | cps |
| Rhodium | 103-2 | 5721737 | 5712566 | 5611819 | 5682041 | 1.07 | cps |
| Scandium | 45-1 | 11308777 | 11119028 | 11199264 | 11209023 | 0.85 | cps |
| Scandium | 45-2 | 203148 | 200705 | 197666 | 200506 | 1.37 | cps |
| Selenium | 82-1 | 2724 | 2840 | 2790 | 2785 | 2.10 | cps |
| Selenium | 77-2 | 43 | 27 | 30 | 33 | 26.45 | cps |
| Selenium | 78-2 | 167 | 173 | 150 | 163 | 7.36 | cps |
| Silicon | 28-1 | 858676 | 863063 | 862674 | 861471 | 0.28 | cps |
| Silver | 107-1 | 45505 | 46455 | 46605 | 46188 | 1.29 | cps |
| Silver | 109-1 | 43636 | 43980 | 43967 | 43861 | 0.44 | cps |
| Sodium | 23-2 | 563172 | 563198 | 570580 | 565650 | 0.75 | cps |
| Strontium | 86-1 | 21453 | 22044 | 21847 | 21781 | 1.38 | cps |
| Strontium | 88-1 | 186315 | 187855 | 187589 | 187253 | 0.44 | cps |
| Sulfur | 34-1 | 715949 | 717189 | 721598 | 718245 | 0.41 | cps |
| Terbium | 159-1 | 21719594 | 21247044 | 21540591 | 21502409 | 1.11 | cps |
| Terbium | 159-2 | 6613024 | 6455192 | 6464170 | 6510795 | 1.36 | cps |
| Thallium | 203-1 | 36508 | 36622 | 37096 | 36742 | 0.85 | cps |
| Thallium | 205-1 | 91164 | 88540 | 90301 | 90002 | 1.49 | cps |
| Tin | 118-1 | 149724 | 151703 | 152553 | 151327 | 0.96 | cps |
| Titanium | 47-1 | 7319 | 7175 | 7255 | 7250 | 0.99 | cps |
| Uranium | 238-1 | 110374 | 112207 | 111189 | 111257 | 0.83 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166570BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS570 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:18:49 | DataFile Name : | 024LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 29133 | 28909 | 28852 | 28965 | 0.51 | cps |
| Ytterbium | 172-1 | 137 | 133 | 127 | 132 | 3.85 | cps |
| Ytterbium | 172-2 | 57 | 33 | 60 | 50 | 29.06 | cps |
| Ytterbium | 176-1 | 2197 | 2374 | 2244 | 2271 | 4.03 | cps |
| Ytterbium | 176-2 | 380 | 340 | 380 | 367 | 6.30 | cps |
| Yttrium | 89-1 | 29247055 | 28613975 | 28421315 | 28760782 | 1.50 | cps |
| Yttrium | 89-2 | 1868754 | 1810392 | 1796589 | 1825245 | 2.10 | cps |
| Zinc | 66-2 | 6271 | 6118 | 5888 | 6092 | 3.17 | cps |
| Zirconium | 90-1 | 63483 | 65061 | 63058 | 63867 | 1.65 | cps |
| Zirconium | 91-1 | 14010 | 14261 | 13990 | 14087 | 1.07 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 187 | 177 | 153 | 172 | 9.93 | cps |
| Antimony | 121-1 | 160 | 167 | 147 | 158 | 6.45 | cps |
| Arsenic | 75-2 | 7 | 10 | 17 | 11 | 45.82 | cps |
| Barium | 135-1 | 310 | 397 | 397 | 368 | 13.61 | cps |
| Barium | 137-1 | 503 | 447 | 540 | 497 | 9.47 | cps |
| Beryllium | 9-1 | 374 | 365 | 394 | 377 | 3.90 | cps |
| Bismuth | 209-1 | 14183191 | 13980729 | 13698153 | 13954024 | 1.75 | cps |
| Bismuth | 209-2 | 5278453 | 5217033 | 5201244 | 5232243 | 0.78 | cps |
| Bromine | 81-1 | 4121 | 4154 | 4254 | 4176 | 1.66 | cps |
| Cadmium | 108-1 | 37 | 17 | 30 | 28 | 36.66 | cps |
| Cadmium | 106-1 | 8226 | 8326 | 8496 | 8349 | 1.64 | cps |
| Cadmium | 111-1 | 5776 | 5863 | 5973 | 5871 | 1.68 | cps |
| Calcium | 43-1 | 787 | 797 | 720 | 768 | 5.43 | cps |
| Calcium | 44-1 | 31381 | 31241 | 31401 | 31341 | 0.28 | cps |
| Carbon | 12-1 | 4231120 | 4687188 | 4994199 | 4637502 | 8.28 | cps |
| Carbon | 12-2 | 34654 | 35610 | 36037 | 35434 | 2.00 | cps |
| Chlorine | 35-1 | 870118 | 834926 | 807230 | 837425 | 3.76 | cps |
| Chlorine | 35-2 | 2744 | 2904 | 2734 | 2794 | 3.42 | cps |
| Chromium | 52-2 | 1520 | 1607 | 1537 | 1555 | 2.96 | cps |
| Cobalt | 59-2 | 63 | 103 | 110 | 92 | 27.37 | cps |
| Copper | 63-2 | 2800 | 2874 | 2774 | 2816 | 1.84 | cps |
| Dysprosium | 156-1 | 40 | 23 | 53 | 39 | 38.65 | cps |
| Dysprosium | 156-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 103 | 117 | 130 | 117 | 11.43 | cps |
| Erbium | 164-2 | 37 | 27 | 17 | 27 | 37.50 | cps |
| Gadolinium | 160-1 | 150 | 90 | 110 | 117 | 26.19 | cps |
| Gadolinium | 160-2 | 23 | 17 | 20 | 20 | 16.65 | cps |
| Holmium | 165-1 | 21936966 | 21759127 | 21289691 | 21661928 | 1.54 | cps |
| Holmium | 165-2 | 6811110 | 6915124 | 6808524 | 6844919 | 0.89 | cps |
| Indium | 115-1 | 17424113 | 17382266 | 17230353 | 17345577 | 0.59 | cps |
| Indium | 115-2 | 1496153 | 1485910 | 1463527 | 1481863 | 1.13 | cps |
| Iron | 54-2 | 623 | 640 | 780 | 681 | 12.63 | cps |
| Iron | 56-2 | 10334 | 10020 | 10240 | 10198 | 1.58 | cps |
| Iron | 57-2 | 260 | 223 | 197 | 227 | 14.03 | cps |
| Krypton | 83-1 | 267 | 337 | 273 | 292 | 13.22 | cps |
| Lead | 206-1 | 4571 | 3924 | 3534 | 4010 | 13.06 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3857 | 3234 | 3000 | 3364 | 13.17 | cps |
| Lead | 208-1 | 17855 | 14963 | 13936 | 15585 | 13.04 | cps |
| Lithium | 6-1 | 8273041 | 7982010 | 8195113 | 8150055 | 1.85 | cps |
| Magnesium | 24-2 | 2980 | 3074 | 3330 | 3128 | 5.80 | cps |
| Manganese | 55-2 | 687 | 643 | 807 | 712 | 11.88 | cps |
| Molybdenum | 94-1 | 307 | 443 | 403 | 384 | 18.28 | cps |
| Molybdenum | 95-1 | 137 | 150 | 143 | 143 | 4.65 | cps |
| Molybdenum | 96-1 | 227 | 220 | 220 | 222 | 1.73 | cps |
| Molybdenum | 97-1 | 120 | 100 | 117 | 112 | 9.55 | cps |
| Molybdenum | 98-1 | 230 | 220 | 157 | 202 | 19.66 | cps |
| Neodymium | 150-1 | 17 | 3 | 43 | 21 | 96.48 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 843 | 857 | 897 | 866 | 3.21 | cps |
| Phosphorus | 31-2 | 113 | 107 | 113 | 111 | 3.46 | cps |
| Potassium | 39-2 | 10260 | 10931 | 10521 | 10571 | 3.20 | cps |
| Rhodium | 103-1 | 16255988 | 16127922 | 15905401 | 16096437 | 1.10 | cps |
| Rhodium | 103-2 | 5740710 | 5808568 | 5741725 | 5763668 | 0.67 | cps |
| Scandium | 45-1 | 11452886 | 11489165 | 11429967 | 11457339 | 0.26 | cps |
| Scandium | 45-2 | 201861 | 206424 | 201915 | 203400 | 1.29 | cps |
| Selenium | 82-1 | -10 | -90 | 57 | -14 | -508.44 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Silicon | 28-1 | 687300 | 696304 | 704874 | 696159 | 1.26 | cps |
| Silver | 107-1 | 417 | 500 | 447 | 454 | 9.29 | cps |
| Silver | 109-1 | 317 | 257 | 233 | 269 | 15.99 | cps |
| Sodium | 23-2 | 69786 | 69967 | 69846 | 69866 | 0.13 | cps |
| Strontium | 86-1 | 760 | 927 | 1023 | 903 | 14.75 | cps |
| Strontium | 88-1 | 4474 | 4297 | 4151 | 4307 | 3.76 | cps |
| Sulfur | 34-1 | 723574 | 723250 | 725958 | 724261 | 0.20 | cps |
| Terbium | 159-1 | 22512836 | 22125871 | 22043115 | 22227274 | 1.13 | cps |
| Terbium | 159-2 | 6712862 | 6576837 | 6556106 | 6615268 | 1.29 | cps |
| Thallium | 203-1 | 927 | 837 | 663 | 809 | 16.55 | cps |
| Thallium | 205-1 | 2197 | 1800 | 1590 | 1862 | 16.55 | cps |
| Tin | 118-1 | 3190 | 3277 | 3320 | 3263 | 2.03 | cps |
| Titanium | 47-1 | 340 | 330 | 290 | 320 | 8.27 | cps |
| Uranium | 238-1 | 27 | 47 | 63 | 46 | 40.29 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1135-09 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8H7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:22:18 | DataFile Name : | 025AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 20 | 10 | 14 | 35.26 | cps |
| Ytterbium | 172-1 | 130 | 123 | 123 | 126 | 3.06 | cps |
| Ytterbium | 172-2 | 50 | 37 | 47 | 44 | 15.61 | cps |
| Ytterbium | 176-1 | 2087 | 2134 | 1930 | 2050 | 5.20 | cps |
| Ytterbium | 176-2 | 277 | 320 | 327 | 308 | 8.82 | cps |
| Yttrium | 89-1 | 30242858 | 29585202 | 29054671 | 29627577 | 2.01 | cps |
| Yttrium | 89-2 | 1854619 | 1841045 | 1811419 | 1835695 | 1.20 | cps |
| Zinc | 66-2 | 247 | 243 | 253 | 248 | 2.06 | cps |
| Zirconium | 90-1 | 1110 | 1043 | 907 | 1020 | 10.16 | cps |
| Zirconium | 91-1 | 223 | 183 | 177 | 194 | 12.98 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 83 | 93 | 113 | 97 | 15.81 | cps |
| Antimony | 121-1 | 130 | 97 | 117 | 114 | 14.66 | cps |
| Arsenic | 75-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Barium | 135-1 | 157 | 250 | 203 | 203 | 22.95 | cps |
| Barium | 137-1 | 323 | 260 | 287 | 290 | 10.96 | cps |
| Beryllium | 9-1 | 354 | 344 | 357 | 352 | 2.02 | cps |
| Bismuth | 209-1 | 13607290 | 13346546 | 13285507 | 13413114 | 1.27 | cps |
| Bismuth | 209-2 | 5077988 | 5004051 | 5070557 | 5050866 | 0.81 | cps |
| Bromine | 81-1 | 4304 | 4204 | 4257 | 4255 | 1.18 | cps |
| Cadmium | 108-1 | 40 | 30 | 20 | 30 | 33.33 | cps |
| Cadmium | 106-1 | 8339 | 7592 | 7772 | 7901 | 4.93 | cps |
| Cadmium | 111-1 | 5829 | 5330 | 5450 | 5537 | 4.71 | cps |
| Calcium | 43-1 | 477 | 390 | 393 | 420 | 11.69 | cps |
| Calcium | 44-1 | 25422 | 25272 | 25356 | 25350 | 0.30 | cps |
| Carbon | 12-1 | 4081839 | 3981313 | 3922052 | 3995068 | 2.02 | cps |
| Carbon | 12-2 | 25515 | 25452 | 24951 | 25306 | 1.22 | cps |
| Chlorine | 35-1 | 671964 | 655612 | 643981 | 657186 | 2.14 | cps |
| Chlorine | 35-2 | 2224 | 2160 | 2177 | 2187 | 1.50 | cps |
| Chromium | 52-2 | 787 | 710 | 693 | 730 | 6.82 | cps |
| Cobalt | 59-2 | 160 | 120 | 137 | 139 | 14.47 | cps |
| Copper | 63-2 | 2624 | 2657 | 2804 | 2695 | 3.55 | cps |
| Dysprosium | 156-1 | 57 | 50 | 60 | 56 | 9.17 | cps |
| Dysprosium | 156-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 80 | 127 | 77 | 94 | 29.60 | cps |
| Erbium | 164-2 | 40 | 37 | 43 | 40 | 8.32 | cps |
| Gadolinium | 160-1 | 127 | 110 | 113 | 117 | 7.56 | cps |
| Gadolinium | 160-2 | 20 | 17 | 30 | 22 | 31.22 | cps |
| Holmium | 165-1 | 20849235 | 20700029 | 20724787 | 20758017 | 0.39 | cps |
| Holmium | 165-2 | 6630606 | 6721061 | 6661490 | 6671052 | 0.69 | cps |
| Indium | 115-1 | 16716741 | 16976759 | 16474929 | 16722810 | 1.50 | cps |
| Indium | 115-2 | 1424596 | 1423002 | 1428478 | 1425359 | 0.20 | cps |
| Iron | 54-2 | 470 | 463 | 487 | 473 | 2.54 | cps |
| Iron | 56-2 | 6998 | 6675 | 7169 | 6947 | 3.61 | cps |
| Iron | 57-2 | 117 | 173 | 190 | 160 | 24.03 | cps |
| Krypton | 83-1 | 297 | 307 | 327 | 310 | 4.93 | cps |
| Lead | 206-1 | 2177 | 2224 | 2014 | 2138 | 5.16 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1767 | 1773 | 1777 | 1772 | 0.29 | cps |
| Lead | 208-1 | 8098 | 8171 | 8034 | 8101 | 0.84 | cps |
| Lithium | 6-1 | 8023640 | 7851060 | 7912857 | 7929185 | 1.10 | cps |
| Magnesium | 24-2 | 2884 | 3190 | 3000 | 3025 | 5.12 | cps |
| Manganese | 55-2 | 143 | 113 | 110 | 122 | 15.02 | cps |
| Molybdenum | 94-1 | 477 | 430 | 410 | 439 | 7.80 | cps |
| Molybdenum | 95-1 | 177 | 153 | 193 | 174 | 11.52 | cps |
| Molybdenum | 96-1 | 270 | 213 | 247 | 243 | 11.70 | cps |
| Molybdenum | 97-1 | 117 | 110 | 140 | 122 | 12.89 | cps |
| Molybdenum | 98-1 | 257 | 297 | 257 | 270 | 8.55 | cps |
| Neodymium | 150-1 | 23 | 10 | 10 | 14 | 53.28 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 790 | 813 | 733 | 779 | 5.28 | cps |
| Phosphorus | 31-2 | 90 | 80 | 73 | 81 | 10.34 | cps |
| Potassium | 39-2 | 9660 | 10471 | 10127 | 10086 | 4.03 | cps |
| Rhodium | 103-1 | 15528866 | 15403719 | 15276956 | 15403181 | 0.82 | cps |
| Rhodium | 103-2 | 5654509 | 5636026 | 5547759 | 5612765 | 1.02 | cps |
| Scandium | 45-1 | 10958050 | 11031114 | 10947004 | 10978723 | 0.42 | cps |
| Scandium | 45-2 | 195596 | 193825 | 195548 | 194990 | 0.52 | cps |
| Selenium | 82-1 | -70 | -10 | -67 | -49 | -68.97 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Silicon | 28-1 | 548179 | 548170 | 548837 | 548395 | 0.07 | cps |
| Silver | 107-1 | 283 | 310 | 247 | 280 | 11.36 | cps |
| Silver | 109-1 | 130 | 157 | 153 | 147 | 9.91 | cps |
| Sodium | 23-2 | 58778 | 59179 | 59012 | 58990 | 0.34 | cps |
| Strontium | 86-1 | 620 | 590 | 650 | 620 | 4.84 | cps |
| Strontium | 88-1 | 1403 | 1267 | 1283 | 1318 | 5.66 | cps |
| Sulfur | 34-1 | 734063 | 734969 | 734366 | 734466 | 0.06 | cps |
| Terbium | 159-1 | 21220697 | 21266101 | 21382802 | 21289867 | 0.39 | cps |
| Terbium | 159-2 | 6390756 | 6477218 | 6413859 | 6427278 | 0.70 | cps |
| Thallium | 203-1 | 603 | 477 | 550 | 543 | 11.70 | cps |
| Thallium | 205-1 | 1253 | 1080 | 1127 | 1153 | 7.78 | cps |
| Tin | 118-1 | 3154 | 3097 | 3060 | 3104 | 1.52 | cps |
| Titanium | 47-1 | 577 | 517 | 520 | 538 | 6.27 | cps |
| Uranium | 238-1 | 43 | 57 | 63 | 54 | 18.71 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BL | Instrumnet Name : | P8 |
| Client Sample ID : | PBW317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:25:40 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17 | 23 | 13 | 18 | 28.64 | cps |
| Ytterbium | 172-1 | 110 | 110 | 107 | 109 | 1.77 | cps |
| Ytterbium | 172-2 | 33 | 37 | 47 | 39 | 17.85 | cps |
| Ytterbium | 176-1 | 1920 | 2007 | 2057 | 1995 | 3.47 | cps |
| Ytterbium | 176-2 | 263 | 337 | 290 | 297 | 12.51 | cps |
| Yttrium | 89-1 | 28525805 | 27944335 | 28395065 | 28288402 | 1.08 | cps |
| Yttrium | 89-2 | 1802541 | 1830850 | 1777917 | 1803769 | 1.47 | cps |
| Zinc | 66-2 | 267 | 247 | 197 | 237 | 15.23 | cps |
| Zirconium | 90-1 | 1020 | 1023 | 997 | 1013 | 1.43 | cps |
| Zirconium | 91-1 | 190 | 153 | 157 | 167 | 12.16 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2990 | 2997 | 3124 | 3037 | 2.47 | cps |
| Antimony | 121-1 | 73164 | 73570 | 74753 | 73829 | 1.12 | cps |
| Arsenic | 75-2 | 703 | 707 | 623 | 678 | 6.96 | cps |
| Barium | 135-1 | 85568 | 86799 | 87302 | 86556 | 1.03 | cps |
| Barium | 137-1 | 152251 | 152195 | 151750 | 152065 | 0.18 | cps |
| Beryllium | 9-1 | 12958 | 12820 | 12892 | 12890 | 0.53 | cps |
| Bismuth | 209-1 | 13328545 | 13389641 | 13465396 | 13394528 | 0.51 | cps |
| Bismuth | 209-2 | 5030484 | 4988085 | 5151591 | 5056720 | 1.68 | cps |
| Bromine | 81-1 | 4231 | 4291 | 4121 | 4214 | 2.05 | cps |
| Cadmium | 108-1 | 830 | 883 | 877 | 863 | 3.37 | cps |
| Cadmium | 106-1 | 8930 | 8623 | 8706 | 8753 | 1.81 | cps |
| Cadmium | 111-1 | 14836 | 14788 | 14687 | 14770 | 0.51 | cps |
| Calcium | 43-1 | 59395 | 58585 | 59218 | 59066 | 0.72 | cps |
| Calcium | 44-1 | 960994 | 973542 | 956067 | 963534 | 0.94 | cps |
| Carbon | 12-1 | 4138020 | 4170033 | 4118816 | 4142290 | 0.62 | cps |
| Carbon | 12-2 | 27532 | 27332 | 27469 | 27445 | 0.37 | cps |
| Chlorine | 35-1 | 2134645 | 2312818 | 2396382 | 2281281 | 5.86 | cps |
| Chlorine | 35-2 | 9713 | 9613 | 9393 | 9573 | 1.71 | cps |
| Chromium | 52-2 | 14848 | 14875 | 14885 | 14869 | 0.13 | cps |
| Cobalt | 59-2 | 14838 | 14641 | 14724 | 14734 | 0.67 | cps |
| Copper | 63-2 | 26926 | 26698 | 26859 | 26828 | 0.44 | cps |
| Dysprosium | 156-1 | 77 | 53 | 43 | 58 | 29.61 | cps |
| Dysprosium | 156-2 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Erbium | 164-1 | 130 | 80 | 87 | 99 | 27.45 | cps |
| Erbium | 164-2 | 33 | 30 | 47 | 37 | 24.06 | cps |
| Gadolinium | 160-1 | 123 | 157 | 97 | 126 | 23.94 | cps |
| Gadolinium | 160-2 | 23 | 7 | 27 | 19 | 56.72 | cps |
| Holmium | 165-1 | 21165296 | 20695327 | 20723832 | 20861485 | 1.26 | cps |
| Holmium | 165-2 | 6700262 | 6684173 | 6711955 | 6698797 | 0.21 | cps |
| Indium | 115-1 | 16722258 | 16569250 | 16367012 | 16552840 | 1.08 | cps |
| Indium | 115-2 | 1433909 | 1425313 | 1460030 | 1439751 | 1.26 | cps |
| Iron | 54-2 | 61010 | 61241 | 62285 | 61512 | 1.10 | cps |
| Iron | 56-2 | 1113026 | 1104063 | 1120262 | 1112450 | 0.73 | cps |
| Iron | 57-2 | 27363 | 27804 | 27500 | 27556 | 0.82 | cps |
| Krypton | 83-1 | 283 | 280 | 320 | 294 | 7.54 | cps |
| Lead | 206-1 | 31335 | 31388 | 31595 | 31439 | 0.44 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27800 | 27292 | 27215 | 27436 | 1.16 | cps |
| Lead | 208-1 | 125494 | 125344 | 124861 | 125233 | 0.26 | cps |
| Lithium | 6-1 | 8014041 | 7922727 | 7968687 | 7968485 | 0.57 | cps |
| Magnesium | 24-2 | 249348 | 247223 | 248463 | 248345 | 0.43 | cps |
| Manganese | 55-2 | 3010 | 3147 | 3080 | 3079 | 2.22 | cps |
| Molybdenum | 94-1 | 73405 | 73067 | 72927 | 73133 | 0.34 | cps |
| Molybdenum | 95-1 | 88784 | 87755 | 90177 | 88905 | 1.37 | cps |
| Molybdenum | 96-1 | 100315 | 100171 | 100097 | 100194 | 0.11 | cps |
| Molybdenum | 97-1 | 55085 | 55855 | 55099 | 55346 | 0.80 | cps |
| Molybdenum | 98-1 | 142735 | 143718 | 146215 | 144222 | 1.24 | cps |
| Neodymium | 150-1 | 40 | 20 | 23 | 28 | 38.58 | cps |
| Neodymium | 150-2 | 0 | 10 | 3 | 4 | 114.60 | cps |
| Nickel | 60-2 | 4831 | 4671 | 4814 | 4772 | 1.84 | cps |
| Phosphorus | 31-2 | 213 | 230 | 193 | 212 | 8.65 | cps |
| Potassium | 39-2 | 146340 | 143916 | 144569 | 144942 | 0.87 | cps |
| Rhodium | 103-1 | 15840646 | 15491205 | 15403042 | 15578298 | 1.49 | cps |
| Rhodium | 103-2 | 5717431 | 5611434 | 5580524 | 5636463 | 1.27 | cps |
| Scandium | 45-1 | 11139448 | 11013459 | 10915987 | 11022965 | 1.02 | cps |
| Scandium | 45-2 | 199251 | 197548 | 200035 | 198945 | 0.64 | cps |
| Selenium | 82-1 | 2730 | 2570 | 2920 | 2740 | 6.40 | cps |
| Selenium | 77-2 | 40 | 27 | 43 | 37 | 24.04 | cps |
| Selenium | 78-2 | 153 | 163 | 187 | 168 | 10.19 | cps |
| Silicon | 28-1 | 861258 | 867916 | 861934 | 863703 | 0.42 | cps |
| Silver | 107-1 | 44364 | 46441 | 46154 | 45653 | 2.46 | cps |
| Silver | 109-1 | 42997 | 44060 | 43498 | 43519 | 1.22 | cps |
| Sodium | 23-2 | 562873 | 560366 | 562423 | 561887 | 0.24 | cps |
| Strontium | 86-1 | 11715 | 12582 | 12032 | 12110 | 3.62 | cps |
| Strontium | 88-1 | 101418 | 100471 | 103104 | 101664 | 1.31 | cps |
| Sulfur | 34-1 | 728769 | 730980 | 730542 | 730097 | 0.16 | cps |
| Terbium | 159-1 | 21422802 | 21596873 | 21166609 | 21395428 | 1.01 | cps |
| Terbium | 159-2 | 6461743 | 6438002 | 6506708 | 6468817 | 0.54 | cps |
| Thallium | 203-1 | 36916 | 36357 | 36702 | 36658 | 0.77 | cps |
| Thallium | 205-1 | 87466 | 87338 | 87794 | 87533 | 0.27 | cps |
| Tin | 118-1 | 148309 | 150870 | 149667 | 149616 | 0.86 | cps |
| Titanium | 47-1 | 7349 | 6998 | 7219 | 7189 | 2.46 | cps |
| Uranium | 238-1 | 109229 | 110345 | 110417 | 109997 | 0.61 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | PB166317BS | Instrumnet Name : | P8 |
| Client Sample ID : | LCS317 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:29:05 | DataFile Name : | 027LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 29247 | 28438 | 28385 | 28690 | 1.68 | cps |
| Ytterbium | 172-1 | 137 | 97 | 150 | 128 | 21.72 | cps |
| Ytterbium | 172-2 | 43 | 27 | 53 | 41 | 32.76 | cps |
| Ytterbium | 176-1 | 2107 | 2107 | 2014 | 2076 | 2.60 | cps |
| Ytterbium | 176-2 | 360 | 360 | 343 | 354 | 2.72 | cps |
| Yttrium | 89-1 | 28717067 | 28257405 | 27930601 | 28301691 | 1.40 | cps |
| Yttrium | 89-2 | 1800960 | 1795141 | 1798872 | 1798324 | 0.16 | cps |
| Zinc | 66-2 | 5875 | 5908 | 5895 | 5892 | 0.29 | cps |
| Zirconium | 90-1 | 62275 | 62945 | 62656 | 62625 | 0.54 | cps |
| Zirconium | 91-1 | 13947 | 13837 | 13620 | 13801 | 1.21 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 633 | 660 | 617 | 637 | 3.43 | cps |
| Antimony | 121-1 | 903 | 930 | 933 | 922 | 1.78 | cps |
| Arsenic | 75-2 | 127 | 137 | 97 | 120 | 17.35 | cps |
| Barium | 135-1 | 75804 | 75274 | 74966 | 75348 | 0.56 | cps |
| Barium | 137-1 | 129997 | 133766 | 133326 | 132363 | 1.56 | cps |
| Beryllium | 9-1 | 320 | 350 | 314 | 328 | 5.91 | cps |
| Bismuth | 209-1 | 12360129 | 12159719 | 12388507 | 12302785 | 1.01 | cps |
| Bismuth | 209-2 | 4583568 | 4728328 | 4545485 | 4619127 | 2.09 | cps |
| Bromine | 81-1 | 97093 | 109353 | 119480 | 108642 | 10.32 | cps |
| Cadmium | 108-1 | 37 | 27 | 33 | 32 | 15.80 | cps |
| Cadmium | 106-1 | 7836 | 7982 | 8199 | 8006 | 2.28 | cps |
| Cadmium | 111-1 | 5519 | 5602 | 5753 | 5625 | 2.10 | cps |
| Calcium | 43-1 | 19410115 | 19496383 | 19674969 | 19527156 | 0.69 | cps |
| Calcium | 44-1 | 311745822 | 314473229 | 315117255 | 313778769 | 0.57 | cps |
| Carbon | 12-1 | 6199554 | 7069999 | 7530544 | 6933366 | 9.75 | cps |
| Carbon | 12-2 | 55039 | 56003 | 57006 | 56016 | 1.76 | cps |
| Chlorine | 35-1 | 2997063 | 3260922 | 3342415 | 3200133 | 5.64 | cps |
| Chlorine | 35-2 | 12916 | 13126 | 12799 | 12947 | 1.28 | cps |
| Chromium | 52-2 | 2337 | 2434 | 2013 | 2261 | 9.73 | cps |
| Cobalt | 59-2 | 310 | 327 | 340 | 326 | 4.62 | cps |
| Copper | 63-2 | 3204 | 3200 | 3110 | 3172 | 1.67 | cps |
| Dysprosium | 156-1 | 310 | 287 | 260 | 286 | 8.76 | cps |
| Dysprosium | 156-2 | 73 | 110 | 107 | 97 | 20.98 | cps |
| Erbium | 164-1 | 397 | 347 | 330 | 358 | 9.70 | cps |
| Erbium | 164-2 | 97 | 143 | 100 | 113 | 22.97 | cps |
| Gadolinium | 160-1 | 340 | 433 | 310 | 361 | 17.81 | cps |
| Gadolinium | 160-2 | 103 | 83 | 113 | 100 | 15.28 | cps |
| Holmium | 165-1 | 20402756 | 20299464 | 20834414 | 20512211 | 1.38 | cps |
| Holmium | 165-2 | 6471565 | 6596433 | 6540870 | 6536289 | 0.96 | cps |
| Indium | 115-1 | 15717160 | 16056269 | 15887126 | 15886852 | 1.07 | cps |
| Indium | 115-2 | 1341717 | 1366135 | 1338539 | 1348797 | 1.12 | cps |
| Iron | 54-2 | 112323 | 111709 | 112559 | 112197 | 0.39 | cps |
| Iron | 56-2 | 2138185 | 2137755 | 2093256 | 2123066 | 1.22 | cps |
| Iron | 57-2 | 51379 | 51098 | 51994 | 51490 | 0.89 | cps |
| Krypton | 83-1 | 280 | 260 | 233 | 258 | 9.08 | cps |
| Lead | 206-1 | 3084 | 3084 | 2950 | 3039 | 2.53 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2604 | 2644 | 2530 | 2593 | 2.22 | cps |
| Lead | 208-1 | 12252 | 12129 | 11932 | 12105 | 1.33 | cps |
| Lithium | 6-1 | 7521436 | 7514477 | 7612071 | 7549328 | 0.72 | cps |
| Magnesium | 24-2 | 27104995 | 27107735 | 27218039 | 27143589 | 0.24 | cps |
| Manganese | 55-2 | 40190 | 39602 | 40577 | 40123 | 1.22 | cps |
| Molybdenum | 94-1 | 3080 | 2997 | 2934 | 3004 | 2.45 | cps |
| Molybdenum | 95-1 | 3107 | 3397 | 3317 | 3274 | 4.58 | cps |
| Molybdenum | 96-1 | 3594 | 3560 | 3620 | 3592 | 0.84 | cps |
| Molybdenum | 97-1 | 2097 | 1977 | 2170 | 2081 | 4.69 | cps |
| Molybdenum | 98-1 | 4958 | 5274 | 5261 | 5164 | 3.47 | cps |
| Neodymium | 150-1 | 297 | 350 | 340 | 329 | 8.62 | cps |
| Neodymium | 150-2 | 90 | 70 | 57 | 72 | 23.23 | cps |
| Nickel | 60-2 | 1207 | 1157 | 1350 | 1238 | 8.11 | cps |
| Phosphorus | 31-2 | 117 | 103 | 73 | 98 | 22.70 | cps |
| Potassium | 39-2 | 465288 | 462418 | 460109 | 462605 | 0.56 | cps |
| Rhodium | 103-1 | 13979210 | 14231310 | 14297942 | 14169488 | 1.19 | cps |
| Rhodium | 103-2 | 5113480 | 5203076 | 5125784 | 5147447 | 0.94 | cps |
| Scandium | 45-1 | 10645510 | 10490357 | 10699503 | 10611790 | 1.02 | cps |
| Scandium | 45-2 | 192303 | 193427 | 189742 | 191824 | 0.98 | cps |
| Selenium | 82-1 | 83 | 153 | 250 | 162 | 51.59 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 7 | 3 | 20 | 10 | 88.20 | cps |
| Silicon | 28-1 | 71972664 | 72404511 | 72013361 | 72130178 | 0.33 | cps |
| Silver | 107-1 | 643 | 597 | 647 | 629 | 4.45 | cps |
| Silver | 109-1 | 340 | 353 | 287 | 327 | 10.80 | cps |
| Sodium | 23-2 | 14386268 | 14553925 | 14495396 | 14478530 | 0.59 | cps |
| Strontium | 86-1 | 74586052 | 75384509 | 75645964 | 75205508 | 0.73 | cps |
| Strontium | 88-1 | 655917177 | 661681910 | 663061857 | 660220315 | 0.57 | cps |
| Sulfur | 34-1 | 29137359 | 29050366 | 29303048 | 29163591 | 0.44 | cps |
| Terbium | 159-1 | 21058938 | 20520894 | 21024976 | 20868270 | 1.44 | cps |
| Terbium | 159-2 | 6212668 | 6300243 | 6226391 | 6246434 | 0.75 | cps |
| Thallium | 203-1 | 533 | 530 | 480 | 514 | 5.81 | cps |
| Thallium | 205-1 | 1360 | 1177 | 1233 | 1257 | 7.47 | cps |
| Tin | 118-1 | 16113 | 15549 | 15639 | 15767 | 1.92 | cps |
| Titanium | 47-1 | 1750 | 1890 | 1977 | 1872 | 6.11 | cps |
| Uranium | 238-1 | 11555 | 11188 | 11228 | 11324 | 1.78 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1186-01 | Instrumnet Name : | P8 |
| Client Sample ID : | ME2948 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:32:25 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 260 | 317 | 310 | 296 | 10.48 | cps |
| Ytterbium | 172-1 | 210 | 200 | 273 | 228 | 17.46 | cps |
| Ytterbium | 172-2 | 117 | 67 | 97 | 93 | 26.96 | cps |
| Ytterbium | 176-1 | 1970 | 1960 | 1997 | 1976 | 0.96 | cps |
| Ytterbium | 176-2 | 267 | 327 | 283 | 292 | 10.60 | cps |
| Yttrium | 89-1 | 26897138 | 27614868 | 27359726 | 27290577 | 1.33 | cps |
| Yttrium | 89-2 | 1759827 | 1741395 | 1721147 | 1740789 | 1.11 | cps |
| Zinc | 66-2 | 1223 | 1187 | 1070 | 1160 | 6.90 | cps |
| Zirconium | 90-1 | 3370 | 3314 | 3157 | 3280 | 3.37 | cps |
| Zirconium | 91-1 | 740 | 713 | 710 | 721 | 2.28 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 395065 | 398170 | 400313 | 397849 | 0.66 | cps |
| Antimony | 121-1 | 2347 | 2590 | 2310 | 2416 | 6.30 | cps |
| Arsenic | 75-2 | 4221 | 4114 | 4261 | 4198 | 1.81 | cps |
| Barium | 135-1 | 263062 | 263693 | 262978 | 263244 | 0.15 | cps |
| Barium | 137-1 | 454804 | 458529 | 455521 | 456285 | 0.43 | cps |
| Beryllium | 9-1 | 1957 | 1850 | 1796 | 1868 | 4.40 | cps |
| Bismuth | 209-1 | 13591849 | 13756356 | 13351588 | 13566598 | 1.50 | cps |
| Bismuth | 209-2 | 4808751 | 4506674 | 4991613 | 4769013 | 5.14 | cps |
| Bromine | 81-1 | 24461 | 21984 | 19864 | 22103 | 10.41 | cps |
| Cadmium | 108-1 | 67 | 83 | 57 | 69 | 19.55 | cps |
| Cadmium | 106-1 | 8446 | 8463 | 8273 | 8394 | 1.25 | cps |
| Cadmium | 111-1 | 6106 | 6049 | 6024 | 6060 | 0.69 | cps |
| Calcium | 43-1 | 85405 | 85140 | 84831 | 85125 | 0.34 | cps |
| Calcium | 44-1 | 1463817 | 1430183 | 1428002 | 1440667 | 1.39 | cps |
| Carbon | 12-1 | 4138647 | 3945005 | 3858322 | 3980658 | 3.61 | cps |
| Carbon | 12-2 | 24958 | 24310 | 24641 | 24636 | 1.31 | cps |
| Chlorine | 35-1 | 43411424 | 47142591 | 48764209 | 46439408 | 5.91 | cps |
| Chlorine | 35-2 | 188403 | 192053 | 191233 | 190563 | 1.00 | cps |
| Chromium | 52-2 | 49020 | 48990 | 49683 | 49231 | 0.79 | cps |
| Cobalt | 59-2 | 50533 | 50804 | 51135 | 50824 | 0.59 | cps |
| Copper | 63-2 | 135819 | 137888 | 136441 | 136716 | 0.78 | cps |
| Dysprosium | 156-1 | 19965 | 20496 | 20235 | 20232 | 1.31 | cps |
| Dysprosium | 156-2 | 6665 | 6895 | 6712 | 6757 | 1.80 | cps |
| Erbium | 164-1 | 19154 | 19000 | 19010 | 19055 | 0.45 | cps |
| Erbium | 164-2 | 5921 | 5905 | 5711 | 5846 | 2.00 | cps |
| Gadolinium | 160-1 | 20753 | 20886 | 21404 | 21014 | 1.64 | cps |
| Gadolinium | 160-2 | 8083 | 8056 | 7982 | 8040 | 0.64 | cps |
| Holmium | 165-1 | 21647737 | 21639675 | 20968669 | 21418694 | 1.82 | cps |
| Holmium | 165-2 | 6596876 | 6022539 | 6760849 | 6460088 | 6.00 | cps |
| Indium | 115-1 | 16910936 | 16796880 | 16312313 | 16673376 | 1.91 | cps |
| Indium | 115-2 | 1371047 | 1256496 | 1425605 | 1351049 | 6.39 | cps |
| Iron | 54-2 | 2347148 | 2367068 | 2359350 | 2357855 | 0.43 | cps |
| Iron | 56-2 | 42723857 | 43277743 | 42406692 | 42802764 | 1.03 | cps |
| Iron | 57-2 | 1052842 | 1063091 | 1064368 | 1060100 | 0.60 | cps |
| Krypton | 83-1 | 373 | 303 | 303 | 327 | 12.37 | cps |
| Lead | 206-1 | 102138 | 103271 | 102945 | 102785 | 0.57 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 83577 | 83973 | 82806 | 83452 | 0.71 | cps |
| Lead | 208-1 | 391785 | 393009 | 392610 | 392468 | 0.16 | cps |
| Lithium | 6-1 | 8020270 | 7999226 | 7939024 | 7986173 | 0.53 | cps |
| Magnesium | 24-2 | 692569 | 705208 | 699792 | 699190 | 0.91 | cps |
| Manganese | 55-2 | 176496 | 176864 | 175741 | 176367 | 0.32 | cps |
| Molybdenum | 94-1 | 3681 | 5527 | 12868 | 7359 | 66.04 | cps |
| Molybdenum | 95-1 | 1967 | 2127 | 1970 | 2021 | 4.52 | cps |
| Molybdenum | 96-1 | 2907 | 2750 | 2854 | 2837 | 2.81 | cps |
| Molybdenum | 97-1 | 1307 | 1310 | 1390 | 1336 | 3.53 | cps |
| Molybdenum | 98-1 | 3394 | 3204 | 3180 | 3259 | 3.59 | cps |
| Neodymium | 150-1 | 21674 | 20876 | 21260 | 21270 | 1.88 | cps |
| Neodymium | 150-2 | 4444 | 4601 | 4411 | 4485 | 2.26 | cps |
| Nickel | 60-2 | 37285 | 37322 | 37423 | 37343 | 0.19 | cps |
| Phosphorus | 31-2 | 667 | 567 | 573 | 602 | 9.28 | cps |
| Potassium | 39-2 | 31866 | 32356 | 35998 | 33407 | 6.76 | cps |
| Rhodium | 103-1 | 15602222 | 15689223 | 15218615 | 15503353 | 1.62 | cps |
| Rhodium | 103-2 | 5408489 | 4920301 | 5581312 | 5303367 | 6.46 | cps |
| Scandium | 45-1 | 11243628 | 11158606 | 10809521 | 11070585 | 2.08 | cps |
| Scandium | 45-2 | 189677 | 173770 | 195272 | 186240 | 5.99 | cps |
| Selenium | 82-1 | -40 | -20 | 17 | -14 | -198.99 | cps |
| Selenium | 77-2 | 37 | 13 | 27 | 26 | 45.82 | cps |
| Selenium | 78-2 | 30 | 10 | 20 | 20 | 50.00 | cps |
| Silicon | 28-1 | 31199160 | 30942935 | 31770877 | 31304324 | 1.35 | cps |
| Silver | 107-1 | 2444 | 2220 | 2270 | 2311 | 5.07 | cps |
| Silver | 109-1 | 2057 | 2027 | 2090 | 2058 | 1.54 | cps |
| Sodium | 23-2 | 75286 | 76204 | 76127 | 75872 | 0.67 | cps |
| Strontium | 86-1 | 80627 | 79732 | 79314 | 79891 | 0.84 | cps |
| Strontium | 88-1 | 696377 | 696572 | 697194 | 696714 | 0.06 | cps |
| Sulfur | 34-1 | 776270 | 756753 | 749033 | 760686 | 1.85 | cps |
| Terbium | 159-1 | 21873285 | 21788643 | 21273626 | 21645185 | 1.50 | cps |
| Terbium | 159-2 | 6287415 | 5763645 | 6470174 | 6173744 | 5.94 | cps |
| Thallium | 203-1 | 1443 | 1283 | 1317 | 1348 | 6.26 | cps |
| Thallium | 205-1 | 3020 | 3254 | 2964 | 3079 | 4.99 | cps |
| Tin | 118-1 | 3480 | 3107 | 3057 | 3215 | 7.20 | cps |
| Titanium | 47-1 | 12329 | 16533 | 16015 | 14959 | 15.33 | cps |
| Uranium | 238-1 | 6892 | 7059 | 6855 | 6935 | 1.56 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9 | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:35:40 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 44529 | 45415 | 45412 | 45119 | 1.13 | cps |
| Ytterbium | 172-1 | 5855 | 5368 | 5715 | 5646 | 4.44 | cps |
| Ytterbium | 172-2 | 1980 | 2000 | 1997 | 1992 | 0.54 | cps |
| Ytterbium | 176-1 | 5418 | 5618 | 5274 | 5437 | 3.17 | cps |
| Ytterbium | 176-2 | 1563 | 1523 | 1567 | 1551 | 1.55 | cps |
| Yttrium | 89-1 | 28890959 | 28890585 | 27947100 | 28576214 | 1.91 | cps |
| Yttrium | 89-2 | 1760044 | 1580711 | 1812029 | 1717594 | 7.07 | cps |
| Zinc | 66-2 | 19667 | 19978 | 18989 | 19545 | 2.59 | cps |
| Zirconium | 90-1 | 7909 | 7052 | 8273 | 7745 | 8.10 | cps |
| Zirconium | 91-1 | 1477 | 1647 | 1714 | 1612 | 7.57 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 394539 | 399122 | 400812 | 398158 | 0.82 | cps |
| Antimony | 121-1 | 2364 | 2347 | 2337 | 2349 | 0.57 | cps |
| Arsenic | 75-2 | 4127 | 4264 | 3967 | 4120 | 3.61 | cps |
| Barium | 135-1 | 261469 | 260329 | 260701 | 260833 | 0.22 | cps |
| Barium | 137-1 | 451253 | 452919 | 453575 | 452582 | 0.26 | cps |
| Beryllium | 9-1 | 1910 | 1785 | 1816 | 1837 | 3.54 | cps |
| Bismuth | 209-1 | 13976918 | 13761008 | 13669871 | 13802599 | 1.14 | cps |
| Bismuth | 209-2 | 5035629 | 4999301 | 4814980 | 4949970 | 2.39 | cps |
| Bromine | 81-1 | 10190 | 9917 | 9630 | 9912 | 2.83 | cps |
| Cadmium | 108-1 | 73 | 53 | 67 | 64 | 15.80 | cps |
| Cadmium | 106-1 | 8406 | 8469 | 8663 | 8513 | 1.57 | cps |
| Cadmium | 111-1 | 6093 | 6121 | 6307 | 6174 | 1.89 | cps |
| Calcium | 43-1 | 83976 | 84640 | 83675 | 84097 | 0.59 | cps |
| Calcium | 44-1 | 1424936 | 1466966 | 1411174 | 1434359 | 2.03 | cps |
| Carbon | 12-1 | 3623350 | 3648599 | 3554004 | 3608651 | 1.36 | cps |
| Carbon | 12-2 | 23439 | 23636 | 23672 | 23582 | 0.53 | cps |
| Chlorine | 35-1 | 45358834 | 48994671 | 49941608 | 48098371 | 5.03 | cps |
| Chlorine | 35-2 | 194606 | 194228 | 196559 | 195131 | 0.64 | cps |
| Chromium | 52-2 | 48602 | 48930 | 48452 | 48661 | 0.50 | cps |
| Cobalt | 59-2 | 51048 | 51429 | 51322 | 51266 | 0.38 | cps |
| Copper | 63-2 | 137602 | 137942 | 137946 | 137830 | 0.14 | cps |
| Dysprosium | 156-1 | 20025 | 19641 | 19918 | 19862 | 1.00 | cps |
| Dysprosium | 156-2 | 6622 | 6622 | 6625 | 6623 | 0.03 | cps |
| Erbium | 164-1 | 19090 | 18700 | 18757 | 18849 | 1.12 | cps |
| Erbium | 164-2 | 6035 | 5688 | 5668 | 5797 | 3.56 | cps |
| Gadolinium | 160-1 | 20526 | 20756 | 20669 | 20651 | 0.56 | cps |
| Gadolinium | 160-2 | 7492 | 7922 | 7772 | 7729 | 2.83 | cps |
| Holmium | 165-1 | 21964920 | 21607424 | 21604339 | 21725561 | 0.95 | cps |
| Holmium | 165-2 | 6807637 | 6715741 | 6489741 | 6671040 | 2.45 | cps |
| Indium | 115-1 | 17547066 | 17010786 | 16858082 | 17138645 | 2.11 | cps |
| Indium | 115-2 | 1436699 | 1428601 | 1380214 | 1415171 | 2.16 | cps |
| Iron | 54-2 | 2402154 | 2371806 | 2353217 | 2375726 | 1.04 | cps |
| Iron | 56-2 | 42985084 | 42512439 | 42661534 | 42719686 | 0.57 | cps |
| Iron | 57-2 | 1044522 | 1056428 | 1060472 | 1053807 | 0.79 | cps |
| Krypton | 83-1 | 253 | 350 | 290 | 298 | 16.39 | cps |
| Lead | 206-1 | 97873 | 96943 | 98743 | 97853 | 0.92 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 79230 | 79327 | 79579 | 79379 | 0.23 | cps |
| Lead | 208-1 | 372206 | 371999 | 375374 | 373193 | 0.51 | cps |
| Lithium | 6-1 | 7998777 | 7854681 | 7918074 | 7923844 | 0.91 | cps |
| Magnesium | 24-2 | 692091 | 694592 | 699443 | 695375 | 0.54 | cps |
| Manganese | 55-2 | 175459 | 176210 | 175477 | 175715 | 0.24 | cps |
| Molybdenum | 94-1 | 3494 | 3577 | 3494 | 3522 | 1.37 | cps |
| Molybdenum | 95-1 | 1953 | 1963 | 1930 | 1949 | 0.88 | cps |
| Molybdenum | 96-1 | 4233 | 2650 | 2674 | 3186 | 28.47 | cps |
| Molybdenum | 97-1 | 1217 | 1170 | 1277 | 1221 | 4.38 | cps |
| Molybdenum | 98-1 | 2944 | 3284 | 2984 | 3070 | 6.05 | cps |
| Neodymium | 150-1 | 21137 | 21077 | 21210 | 21141 | 0.32 | cps |
| Neodymium | 150-2 | 4601 | 4381 | 4574 | 4519 | 2.66 | cps |
| Nickel | 60-2 | 37175 | 36684 | 37971 | 37277 | 1.74 | cps |
| Phosphorus | 31-2 | 527 | 633 | 627 | 596 | 10.03 | cps |
| Potassium | 39-2 | 31264 | 31494 | 32050 | 31603 | 1.28 | cps |
| Rhodium | 103-1 | 15952254 | 15704533 | 15706497 | 15787762 | 0.90 | cps |
| Rhodium | 103-2 | 5750914 | 5692490 | 5401751 | 5615052 | 3.33 | cps |
| Scandium | 45-1 | 11468688 | 11401294 | 11414894 | 11428292 | 0.31 | cps |
| Scandium | 45-2 | 200489 | 197519 | 188192 | 195400 | 3.28 | cps |
| Selenium | 82-1 | 153 | 0 | 140 | 98 | 86.87 | cps |
| Selenium | 77-2 | 37 | 20 | 17 | 24 | 43.83 | cps |
| Selenium | 78-2 | 33 | 23 | 43 | 33 | 30.00 | cps |
| Silicon | 28-1 | 33876204 | 31873827 | 31496015 | 32415348 | 3.95 | cps |
| Silver | 107-1 | 1863 | 1917 | 2150 | 1977 | 7.71 | cps |
| Silver | 109-1 | 1750 | 1743 | 1727 | 1740 | 0.69 | cps |
| Sodium | 23-2 | 73926 | 73611 | 74254 | 73930 | 0.44 | cps |
| Strontium | 86-1 | 76280 | 77791 | 77835 | 77302 | 1.15 | cps |
| Strontium | 88-1 | 673699 | 683407 | 675406 | 677504 | 0.76 | cps |
| Sulfur | 34-1 | 745852 | 744975 | 739757 | 743528 | 0.44 | cps |
| Terbium | 159-1 | 22477586 | 21752451 | 21711200 | 21980412 | 1.96 | cps |
| Terbium | 159-2 | 6504189 | 6473149 | 6241538 | 6406292 | 2.24 | cps |
| Thallium | 203-1 | 1113 | 1147 | 1240 | 1167 | 5.63 | cps |
| Thallium | 205-1 | 2660 | 2687 | 2884 | 2744 | 4.45 | cps |
| Tin | 118-1 | 3170 | 2974 | 2937 | 3027 | 4.15 | cps |
| Titanium | 47-1 | 10564 | 15330 | 11098 | 12331 | 21.17 | cps |
| Uranium | 238-1 | 6455 | 6945 | 18343 | 10581 | 63.57 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-02DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9D | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:38:57 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 45238 | 45332 | 45820 | 45463 | 0.69 | cps |
| Ytterbium | 172-1 | 5445 | 5495 | 5528 | 5489 | 0.76 | cps |
| Ytterbium | 172-2 | 2077 | 2180 | 1950 | 2069 | 5.57 | cps |
| Ytterbium | 176-1 | 5338 | 5431 | 5274 | 5348 | 1.47 | cps |
| Ytterbium | 176-2 | 1537 | 1490 | 1477 | 1501 | 2.10 | cps |
| Yttrium | 89-1 | 29887880 | 29202368 | 29353155 | 29481134 | 1.22 | cps |
| Yttrium | 89-2 | 1823742 | 1816380 | 1739654 | 1793258 | 2.60 | cps |
| Zinc | 66-2 | 19751 | 19540 | 19564 | 19618 | 0.59 | cps |
| Zirconium | 90-1 | 17892 | 6815 | 7260 | 10656 | 58.85 | cps |
| Zirconium | 91-1 | 1707 | 1507 | 1393 | 1536 | 10.33 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 79372 | 79797 | 79312 | 79494 | 0.33 | cps |
| Antimony | 121-1 | 560 | 530 | 570 | 553 | 3.76 | cps |
| Arsenic | 75-2 | 870 | 900 | 910 | 893 | 2.33 | cps |
| Barium | 135-1 | 51307 | 52612 | 51932 | 51950 | 1.26 | cps |
| Barium | 137-1 | 91732 | 89977 | 89151 | 90287 | 1.46 | cps |
| Beryllium | 9-1 | 669 | 696 | 627 | 664 | 5.21 | cps |
| Bismuth | 209-1 | 13593550 | 13690941 | 13583113 | 13622535 | 0.44 | cps |
| Bismuth | 209-2 | 5115381 | 5093541 | 5117037 | 5108653 | 0.26 | cps |
| Bromine | 81-1 | 6665 | 7095 | 6472 | 6744 | 4.73 | cps |
| Cadmium | 108-1 | 30 | 33 | 37 | 33 | 10.01 | cps |
| Cadmium | 106-1 | 8309 | 8042 | 8219 | 8190 | 1.66 | cps |
| Cadmium | 111-1 | 5855 | 5673 | 5764 | 5764 | 1.58 | cps |
| Calcium | 43-1 | 17381 | 17327 | 17568 | 17425 | 0.72 | cps |
| Calcium | 44-1 | 299052 | 301504 | 300249 | 300268 | 0.41 | cps |
| Carbon | 12-1 | 3287613 | 3269004 | 3232258 | 3262959 | 0.86 | cps |
| Carbon | 12-2 | 20928 | 20721 | 21332 | 20994 | 1.48 | cps |
| Chlorine | 35-1 | 11481970 | 12038564 | 12089150 | 11869895 | 2.84 | cps |
| Chlorine | 35-2 | 46060 | 44920 | 45063 | 45348 | 1.37 | cps |
| Chromium | 52-2 | 10421 | 10544 | 10624 | 10530 | 0.97 | cps |
| Cobalt | 59-2 | 10167 | 10004 | 10327 | 10166 | 1.59 | cps |
| Copper | 63-2 | 29758 | 29397 | 30019 | 29725 | 1.05 | cps |
| Dysprosium | 156-1 | 3944 | 4084 | 3884 | 3971 | 2.59 | cps |
| Dysprosium | 156-2 | 1390 | 1250 | 1307 | 1316 | 5.35 | cps |
| Erbium | 164-1 | 3687 | 3834 | 3671 | 3731 | 2.41 | cps |
| Erbium | 164-2 | 1130 | 1053 | 1197 | 1127 | 6.37 | cps |
| Gadolinium | 160-1 | 4197 | 4291 | 4344 | 4277 | 1.74 | cps |
| Gadolinium | 160-2 | 1690 | 1693 | 1640 | 1675 | 1.78 | cps |
| Holmium | 165-1 | 21417206 | 21035082 | 21238486 | 21230258 | 0.90 | cps |
| Holmium | 165-2 | 6768829 | 6681310 | 6783680 | 6744606 | 0.82 | cps |
| Indium | 115-1 | 17108891 | 16553209 | 17235246 | 16965782 | 2.14 | cps |
| Indium | 115-2 | 1434679 | 1433619 | 1432150 | 1433483 | 0.09 | cps |
| Iron | 54-2 | 467067 | 461735 | 467522 | 465441 | 0.69 | cps |
| Iron | 56-2 | 8680549 | 8612885 | 8612136 | 8635190 | 0.45 | cps |
| Iron | 57-2 | 212648 | 213565 | 210980 | 212398 | 0.62 | cps |
| Krypton | 83-1 | 367 | 290 | 287 | 314 | 14.39 | cps |
| Lead | 206-1 | 20864 | 21414 | 21040 | 21106 | 1.33 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 17285 | 17222 | 17238 | 17248 | 0.19 | cps |
| Lead | 208-1 | 81257 | 81660 | 81674 | 81531 | 0.29 | cps |
| Lithium | 6-1 | 7911939 | 7881317 | 7897384 | 7896880 | 0.19 | cps |
| Magnesium | 24-2 | 142192 | 141970 | 141337 | 141833 | 0.31 | cps |
| Manganese | 55-2 | 34993 | 35514 | 35491 | 35333 | 0.83 | cps |
| Molybdenum | 94-1 | 1230 | 987 | 907 | 1041 | 16.18 | cps |
| Molybdenum | 95-1 | 560 | 530 | 540 | 543 | 2.81 | cps |
| Molybdenum | 96-1 | 753 | 770 | 750 | 758 | 1.41 | cps |
| Molybdenum | 97-1 | 283 | 297 | 323 | 301 | 6.76 | cps |
| Molybdenum | 98-1 | 780 | 840 | 763 | 794 | 5.08 | cps |
| Neodymium | 150-1 | 4254 | 4431 | 4301 | 4329 | 2.12 | cps |
| Neodymium | 150-2 | 990 | 930 | 970 | 963 | 3.17 | cps |
| Nickel | 60-2 | 8346 | 8119 | 8189 | 8218 | 1.41 | cps |
| Phosphorus | 31-2 | 223 | 160 | 167 | 183 | 18.98 | cps |
| Potassium | 39-2 | 14504 | 14751 | 14694 | 14650 | 0.88 | cps |
| Rhodium | 103-1 | 15639084 | 15929314 | 15735520 | 15767973 | 0.94 | cps |
| Rhodium | 103-2 | 5670506 | 5713143 | 5587403 | 5657017 | 1.13 | cps |
| Scandium | 45-1 | 11233172 | 11072895 | 11252287 | 11186118 | 0.88 | cps |
| Scandium | 45-2 | 196443 | 200153 | 196953 | 197850 | 1.02 | cps |
| Selenium | 82-1 | -63 | 17 | -23 | -23 | -171.40 | cps |
| Selenium | 77-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Selenium | 78-2 | 13 | 3 | 7 | 8 | 65.47 | cps |
| Silicon | 28-1 | 6725510 | 6715857 | 6789004 | 6743457 | 0.59 | cps |
| Silver | 107-1 | 617 | 577 | 503 | 566 | 10.16 | cps |
| Silver | 109-1 | 370 | 380 | 427 | 392 | 7.71 | cps |
| Sodium | 23-2 | 64371 | 64177 | 63635 | 64061 | 0.60 | cps |
| Strontium | 86-1 | 15892 | 15796 | 16186 | 15958 | 1.27 | cps |
| Strontium | 88-1 | 138943 | 138058 | 136022 | 137674 | 1.09 | cps |
| Sulfur | 34-1 | 746827 | 741995 | 739402 | 742741 | 0.51 | cps |
| Terbium | 159-1 | 21443601 | 21492268 | 21838417 | 21591429 | 1.00 | cps |
| Terbium | 159-2 | 6421779 | 6436396 | 6451816 | 6436663 | 0.23 | cps |
| Thallium | 203-1 | 640 | 533 | 557 | 577 | 9.72 | cps |
| Thallium | 205-1 | 1467 | 1347 | 1470 | 1428 | 4.92 | cps |
| Tin | 118-1 | 2387 | 2537 | 2520 | 2481 | 3.31 | cps |
| Titanium | 47-1 | 2467 | 4286 | 2717 | 3157 | 31.24 | cps |
| Uranium | 238-1 | 1437 | 1333 | 1443 | 1405 | 4.39 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-01LDL2X20 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9L | Dilution Factor : | 20 |
| Date & Time Acquired : | 2025-02-11 14:42:16 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 9043 | 9043 | 8719 | 8935 | 2.09 | cps |
| Ytterbium | 172-1 | 1327 | 1270 | 1187 | 1261 | 5.58 | cps |
| Ytterbium | 172-2 | 483 | 453 | 430 | 456 | 5.87 | cps |
| Ytterbium | 176-1 | 2827 | 2594 | 2620 | 2680 | 4.77 | cps |
| Ytterbium | 176-2 | 550 | 647 | 547 | 581 | 9.77 | cps |
| Yttrium | 89-1 | 28941980 | 29236530 | 28515229 | 28897913 | 1.25 | cps |
| Yttrium | 89-2 | 1836518 | 1805555 | 1814570 | 1818881 | 0.88 | cps |
| Zinc | 66-2 | 4134 | 4307 | 4351 | 4264 | 2.69 | cps |
| Zirconium | 90-1 | 2017 | 2187 | 2397 | 2200 | 8.66 | cps |
| Zirconium | 91-1 | 500 | 400 | 527 | 476 | 14.04 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 399248 | 399250 | 396295 | 398264 | 0.43 | cps |
| Antimony | 121-1 | 92121 | 93198 | 93175 | 92831 | 0.66 | cps |
| Arsenic | 75-2 | 5088 | 4928 | 5171 | 5062 | 2.44 | cps |
| Barium | 135-1 | 659197 | 676656 | 676357 | 670737 | 1.49 | cps |
| Barium | 137-1 | 1174499 | 1174928 | 1157640 | 1169022 | 0.84 | cps |
| Beryllium | 9-1 | 16233 | 16352 | 16084 | 16223 | 0.83 | cps |
| Bismuth | 209-1 | 13477260 | 13373927 | 13372090 | 13407759 | 0.45 | cps |
| Bismuth | 209-2 | 5096951 | 5003598 | 5068133 | 5056227 | 0.95 | cps |
| Bromine | 81-1 | 6555 | 6855 | 7045 | 6818 | 3.62 | cps |
| Cadmium | 108-1 | 903 | 987 | 893 | 928 | 5.52 | cps |
| Cadmium | 106-1 | 9507 | 9423 | 9403 | 9444 | 0.58 | cps |
| Cadmium | 111-1 | 17424 | 17270 | 16768 | 17154 | 2.00 | cps |
| Calcium | 43-1 | 95642 | 97037 | 96659 | 96446 | 0.75 | cps |
| Calcium | 44-1 | 1535606 | 1590562 | 1540406 | 1555525 | 1.96 | cps |
| Carbon | 12-1 | 3540591 | 3481082 | 3491315 | 3504329 | 0.91 | cps |
| Carbon | 12-2 | 23112 | 23051 | 22975 | 23046 | 0.30 | cps |
| Chlorine | 35-1 | 44460349 | 49241239 | 50759261 | 48153617 | 6.83 | cps |
| Chlorine | 35-2 | 196621 | 198561 | 198729 | 197970 | 0.59 | cps |
| Chromium | 52-2 | 83026 | 83888 | 83120 | 83344 | 0.57 | cps |
| Cobalt | 59-2 | 217191 | 217202 | 217936 | 217443 | 0.20 | cps |
| Copper | 63-2 | 200739 | 200907 | 200566 | 200737 | 0.08 | cps |
| Dysprosium | 156-1 | 19247 | 19130 | 19688 | 19355 | 1.52 | cps |
| Dysprosium | 156-2 | 6578 | 6588 | 6482 | 6549 | 0.90 | cps |
| Erbium | 164-1 | 18590 | 18894 | 18506 | 18663 | 1.09 | cps |
| Erbium | 164-2 | 5525 | 5454 | 5765 | 5581 | 2.91 | cps |
| Gadolinium | 160-1 | 20139 | 20252 | 21170 | 20520 | 2.76 | cps |
| Gadolinium | 160-2 | 7956 | 7846 | 7609 | 7803 | 2.27 | cps |
| Holmium | 165-1 | 21701512 | 20860310 | 21360731 | 21307518 | 1.99 | cps |
| Holmium | 165-2 | 6756859 | 6825851 | 6768275 | 6783661 | 0.55 | cps |
| Indium | 115-1 | 16735828 | 17117051 | 16559487 | 16804122 | 1.70 | cps |
| Indium | 115-2 | 1429242 | 1413529 | 1430059 | 1424277 | 0.65 | cps |
| Iron | 54-2 | 2381679 | 2362409 | 2347861 | 2363983 | 0.72 | cps |
| Iron | 56-2 | 42338631 | 43151463 | 42247184 | 42579092 | 1.17 | cps |
| Iron | 57-2 | 1040689 | 1043374 | 1039757 | 1041273 | 0.18 | cps |
| Krypton | 83-1 | 347 | 330 | 297 | 324 | 7.85 | cps |
| Lead | 206-1 | 110022 | 110960 | 109188 | 110057 | 0.81 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 89644 | 89000 | 89278 | 89307 | 0.36 | cps |
| Lead | 208-1 | 420428 | 421848 | 420576 | 420951 | 0.19 | cps |
| Lithium | 6-1 | 7922571 | 8074597 | 7956145 | 7984438 | 1.00 | cps |
| Magnesium | 24-2 | 688272 | 692805 | 689107 | 690061 | 0.35 | cps |
| Manganese | 55-2 | 206758 | 209365 | 206042 | 207388 | 0.84 | cps |
| Molybdenum | 94-1 | 135428 | 135132 | 137084 | 135881 | 0.77 | cps |
| Molybdenum | 95-1 | 232443 | 232211 | 236468 | 233707 | 1.02 | cps |
| Molybdenum | 96-1 | 250356 | 254301 | 250412 | 251690 | 0.90 | cps |
| Molybdenum | 97-1 | 146739 | 145739 | 146571 | 146350 | 0.37 | cps |
| Molybdenum | 98-1 | 376165 | 377509 | 379402 | 377692 | 0.43 | cps |
| Neodymium | 150-1 | 20796 | 20703 | 20890 | 20796 | 0.45 | cps |
| Neodymium | 150-2 | 4711 | 4361 | 4611 | 4561 | 3.95 | cps |
| Nickel | 60-2 | 83915 | 83784 | 84529 | 84076 | 0.47 | cps |
| Phosphorus | 31-2 | 583 | 590 | 530 | 568 | 5.79 | cps |
| Potassium | 39-2 | 31194 | 31321 | 31070 | 31195 | 0.40 | cps |
| Rhodium | 103-1 | 15686615 | 15630359 | 15672034 | 15663003 | 0.19 | cps |
| Rhodium | 103-2 | 5594299 | 5609929 | 5605256 | 5603161 | 0.14 | cps |
| Scandium | 45-1 | 11281676 | 11276946 | 11266322 | 11274981 | 0.07 | cps |
| Scandium | 45-2 | 200150 | 197529 | 197000 | 198227 | 0.85 | cps |
| Selenium | 82-1 | 227 | 293 | 250 | 257 | 13.18 | cps |
| Selenium | 77-2 | 33 | 33 | 30 | 32 | 5.97 | cps |
| Selenium | 78-2 | 63 | 20 | 40 | 41 | 52.75 | cps |
| Silicon | 28-1 | 31644432 | 31431149 | 31150558 | 31408713 | 0.79 | cps |
| Silver | 107-1 | 54423 | 54939 | 55588 | 54983 | 1.06 | cps |
| Silver | 109-1 | 51429 | 52232 | 52643 | 52101 | 1.19 | cps |
| Sodium | 23-2 | 72385 | 72522 | 72060 | 72322 | 0.33 | cps |
| Strontium | 86-1 | 2974241 | 2975719 | 2979157 | 2976373 | 0.08 | cps |
| Strontium | 88-1 | 25694321 | 25378242 | 25536191 | 25536252 | 0.62 | cps |
| Sulfur | 34-1 | 743850 | 737159 | 729548 | 736852 | 0.97 | cps |
| Terbium | 159-1 | 21567101 | 21622441 | 21530871 | 21573471 | 0.21 | cps |
| Terbium | 159-2 | 6449663 | 6378566 | 6517109 | 6448446 | 1.07 | cps |
| Thallium | 203-1 | 44031 | 44138 | 43523 | 43897 | 0.75 | cps |
| Thallium | 205-1 | 106039 | 106265 | 106462 | 106255 | 0.20 | cps |
| Tin | 118-1 | 3044 | 3007 | 2864 | 2971 | 3.20 | cps |
| Titanium | 47-1 | 13076 | 11844 | 11086 | 12002 | 8.37 | cps |
| Uranium | 238-1 | 6745 | 6635 | 6762 | 6714 | 1.03 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-03DL2X4 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8C9S | Dilution Factor : | 4 |
| Date & Time Acquired : | 2025-02-11 14:45:35 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 110324 | 110925 | 111483 | 110911 | 0.52 | cps |
| Ytterbium | 172-1 | 5224 | 5354 | 5471 | 5350 | 2.31 | cps |
| Ytterbium | 172-2 | 2077 | 1927 | 2067 | 2024 | 4.15 | cps |
| Ytterbium | 176-1 | 5351 | 5224 | 5411 | 5329 | 1.79 | cps |
| Ytterbium | 176-2 | 1523 | 1577 | 1647 | 1582 | 3.91 | cps |
| Yttrium | 89-1 | 29683754 | 29052123 | 29216939 | 29317605 | 1.12 | cps |
| Yttrium | 89-2 | 1874750 | 1807609 | 1803031 | 1828463 | 2.20 | cps |
| Zinc | 66-2 | 33105 | 33075 | 32962 | 33047 | 0.23 | cps |
| Zirconium | 90-1 | 9641 | 7263 | 6405 | 7769 | 21.58 | cps |
| Zirconium | 91-1 | 2452 | 1657 | 1543 | 1884 | 26.28 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3166656 | 3219302 | 3114011 | 3166656 | 1.66 | cps |
| Antimony | 121-1 | 8221670 | 8147852 | 8174881 | 8181468 | 0.46 | cps |
| Arsenic | 75-2 | 145397 | 144569 | 145717 | 145228 | 0.41 | cps |
| Barium | 135-1 | 9937428 | 9940063 | 9997160 | 9958217 | 0.34 | cps |
| Barium | 137-1 | 17203885 | 17037235 | 17326678 | 17189266 | 0.85 | cps |
| Beryllium | 9-1 | 2654376 | 2638062 | 2629882 | 2640773 | 0.47 | cps |
| Bismuth | 209-1 | 11681266 | 11866256 | 11665631 | 11737718 | 0.95 | cps |
| Bismuth | 209-2 | 4363116 | 4439537 | 4297792 | 4366815 | 1.62 | cps |
| Bromine | 81-1 | 4537 | 4661 | 4708 | 4635 | 1.90 | cps |
| Cadmium | 108-1 | 159518 | 159413 | 159338 | 159423 | 0.06 | cps |
| Cadmium | 106-1 | 229326 | 230084 | 231381 | 230264 | 0.45 | cps |
| Cadmium | 111-1 | 1998080 | 1980420 | 1949594 | 1976031 | 1.24 | cps |
| Calcium | 43-1 | 13159966 | 13127658 | 13087303 | 13124976 | 0.28 | cps |
| Calcium | 44-1 | 213926557 | 212261650 | 213758237 | 213315481 | 0.43 | cps |
| Carbon | 12-1 | 4181315 | 4287135 | 4447376 | 4305276 | 3.11 | cps |
| Carbon | 12-2 | 35727 | 36181 | 35927 | 35945 | 0.63 | cps |
| Chlorine | 35-1 | 2206331 | 2077000 | 2001406 | 2094912 | 4.95 | cps |
| Chlorine | 35-2 | 6278 | 6281 | 6098 | 6219 | 1.69 | cps |
| Chromium | 52-2 | 1653403 | 1686750 | 1646399 | 1662184 | 1.30 | cps |
| Cobalt | 59-2 | 3036918 | 3110755 | 3045672 | 3064448 | 1.32 | cps |
| Copper | 63-2 | 22715015 | 22991670 | 23074881 | 22927189 | 0.82 | cps |
| Dysprosium | 156-1 | 483 | 447 | 587 | 506 | 14.36 | cps |
| Dysprosium | 156-2 | 73 | 103 | 113 | 97 | 21.54 | cps |
| Erbium | 164-1 | 437 | 477 | 523 | 479 | 9.06 | cps |
| Erbium | 164-2 | 163 | 140 | 113 | 139 | 18.01 | cps |
| Gadolinium | 160-1 | 373 | 367 | 467 | 402 | 13.90 | cps |
| Gadolinium | 160-2 | 103 | 97 | 133 | 111 | 17.58 | cps |
| Holmium | 165-1 | 20402021 | 20415796 | 19953943 | 20257253 | 1.30 | cps |
| Holmium | 165-2 | 6456381 | 6399193 | 6303048 | 6386208 | 1.21 | cps |
| Indium | 115-1 | 15336206 | 14961998 | 14961161 | 15086455 | 1.43 | cps |
| Indium | 115-2 | 1272665 | 1272647 | 1264877 | 1270063 | 0.35 | cps |
| Iron | 54-2 | 16711327 | 16511395 | 16316438 | 16513053 | 1.20 | cps |
| Iron | 56-2 | 300885262 | 298991562 | 301480322 | 300452382 | 0.43 | cps |
| Iron | 57-2 | 7455539 | 7512635 | 7623014 | 7530396 | 1.13 | cps |
| Krypton | 83-1 | 390 | 310 | 330 | 343 | 12.13 | cps |
| Lead | 206-1 | 32241649 | 32935878 | 32613916 | 32597148 | 1.07 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 27558165 | 28544111 | 28066145 | 28056141 | 1.76 | cps |
| Lead | 208-1 | 127315260 | 130303960 | 130067121 | 129228780 | 1.29 | cps |
| Lithium | 6-1 | 7198645 | 7053892 | 6949829 | 7067455 | 1.77 | cps |
| Magnesium | 24-2 | 57109904 | 57753171 | 56791991 | 57218355 | 0.86 | cps |
| Manganese | 55-2 | 6525140 | 6456763 | 6498567 | 6493490 | 0.53 | cps |
| Molybdenum | 94-1 | 28787649 | 28763611 | 28791932 | 28781064 | 0.05 | cps |
| Molybdenum | 95-1 | 41298139 | 42046620 | 42165827 | 41836862 | 1.12 | cps |
| Molybdenum | 96-1 | 46244529 | 45528104 | 45893288 | 45888640 | 0.78 | cps |
| Molybdenum | 97-1 | 26031702 | 25624298 | 26106169 | 25920723 | 1.00 | cps |
| Molybdenum | 98-1 | 67525102 | 67129362 | 67958714 | 67537726 | 0.61 | cps |
| Neodymium | 150-1 | 767 | 727 | 793 | 762 | 4.40 | cps |
| Neodymium | 150-2 | 57 | 77 | 50 | 61 | 22.71 | cps |
| Nickel | 60-2 | 795131 | 798610 | 800029 | 797923 | 0.32 | cps |
| Phosphorus | 31-2 | 29627 | 29614 | 28895 | 29379 | 1.42 | cps |
| Potassium | 39-2 | 15470017 | 15285944 | 15112951 | 15289637 | 1.17 | cps |
| Rhodium | 103-1 | 13755072 | 13393762 | 13307405 | 13485413 | 1.76 | cps |
| Rhodium | 103-2 | 4992220 | 4898282 | 4830914 | 4907139 | 1.65 | cps |
| Scandium | 45-1 | 10743417 | 10510735 | 10438920 | 10564357 | 1.51 | cps |
| Scandium | 45-2 | 188139 | 186078 | 184643 | 186286 | 0.94 | cps |
| Selenium | 82-1 | 119786 | 117190 | 119178 | 118718 | 1.14 | cps |
| Selenium | 77-2 | 1777 | 1817 | 1827 | 1807 | 1.46 | cps |
| Selenium | 78-2 | 6185 | 6241 | 5831 | 6086 | 3.65 | cps |
| Silicon | 28-1 | 6932328 | 6887328 | 6952648 | 6924101 | 0.48 | cps |
| Silver | 107-1 | 9740600 | 9861581 | 9825098 | 9809093 | 0.63 | cps |
| Silver | 109-1 | 9345849 | 9303077 | 9392373 | 9347100 | 0.48 | cps |
| Sodium | 23-2 | 113351995 | 113559018 | 114219115 | 113710043 | 0.40 | cps |
| Strontium | 86-1 | 2699948 | 2680982 | 2684403 | 2688445 | 0.38 | cps |
| Strontium | 88-1 | 23195249 | 23215707 | 23366180 | 23259045 | 0.40 | cps |
| Sulfur | 34-1 | 1461045 | 1420926 | 1417068 | 1433013 | 1.70 | cps |
| Terbium | 159-1 | 20524883 | 20552897 | 20215143 | 20430974 | 0.92 | cps |
| Terbium | 159-2 | 6089691 | 6109674 | 6000073 | 6066479 | 0.96 | cps |
| Thallium | 203-1 | 7965201 | 8030308 | 8043287 | 8012932 | 0.52 | cps |
| Thallium | 205-1 | 18796496 | 19019243 | 19088752 | 18968163 | 0.80 | cps |
| Tin | 118-1 | 6496653 | 6479065 | 6621326 | 6532348 | 1.19 | cps |
| Titanium | 47-1 | 12430604 | 12281259 | 12330399 | 12347421 | 0.62 | cps |
| Uranium | 238-1 | 25741353 | 26063259 | 26611831 | 26138814 | 1.68 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCV022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:50:23 | DataFile Name : | 033CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1259175 | 1254168 | 1250385 | 1254576 | 0.35 | cps |
| Ytterbium | 172-1 | 497 | 567 | 473 | 512 | 9.48 | cps |
| Ytterbium | 172-2 | 143 | 200 | 200 | 181 | 18.06 | cps |
| Ytterbium | 176-1 | 41552 | 40696 | 41284 | 41177 | 1.06 | cps |
| Ytterbium | 176-2 | 12483 | 12583 | 12389 | 12485 | 0.78 | cps |
| Yttrium | 89-1 | 26981940 | 26683772 | 26824623 | 26830112 | 0.56 | cps |
| Yttrium | 89-2 | 1735726 | 1712686 | 1680361 | 1709591 | 1.63 | cps |
| Zinc | 66-2 | 2484632 | 2468297 | 2485788 | 2479572 | 0.39 | cps |
| Zirconium | 90-1 | 14458267 | 14582043 | 14669493 | 14569934 | 0.73 | cps |
| Zirconium | 91-1 | 3226371 | 3328566 | 3327612 | 3294183 | 1.78 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 133 | 143 | 153 | 143 | 6.98 | cps |
| Antimony | 121-1 | 1943 | 1767 | 1633 | 1781 | 8.73 | cps |
| Arsenic | 75-2 | 7 | 7 | 13 | 9 | 43.25 | cps |
| Barium | 135-1 | 513 | 437 | 380 | 443 | 15.09 | cps |
| Barium | 137-1 | 987 | 750 | 740 | 826 | 16.91 | cps |
| Beryllium | 9-1 | 969 | 892 | 879 | 913 | 5.31 | cps |
| Bismuth | 209-1 | 13465650 | 13521157 | 13574240 | 13520349 | 0.40 | cps |
| Bismuth | 209-2 | 4917479 | 5017297 | 4941901 | 4958892 | 1.05 | cps |
| Bromine | 81-1 | 4254 | 4204 | 4354 | 4271 | 1.79 | cps |
| Cadmium | 108-1 | 43 | 30 | 60 | 44 | 33.82 | cps |
| Cadmium | 106-1 | 7542 | 8176 | 7649 | 7789 | 4.36 | cps |
| Cadmium | 111-1 | 5339 | 5832 | 5449 | 5540 | 4.67 | cps |
| Calcium | 43-1 | 690 | 680 | 630 | 667 | 4.82 | cps |
| Calcium | 44-1 | 32173 | 29754 | 29347 | 30425 | 5.02 | cps |
| Carbon | 12-1 | 3727055 | 3700262 | 3695860 | 3707726 | 0.46 | cps |
| Carbon | 12-2 | 23923 | 23452 | 23896 | 23757 | 1.11 | cps |
| Chlorine | 35-1 | 1188619 | 1153433 | 1080475 | 1140842 | 4.84 | cps |
| Chlorine | 35-2 | 3697 | 3807 | 3524 | 3676 | 3.89 | cps |
| Chromium | 52-2 | 700 | 873 | 820 | 798 | 11.13 | cps |
| Cobalt | 59-2 | 160 | 163 | 213 | 179 | 16.70 | cps |
| Copper | 63-2 | 3194 | 3360 | 3350 | 3302 | 2.83 | cps |
| Dysprosium | 156-1 | 30 | 57 | 37 | 41 | 33.76 | cps |
| Dysprosium | 156-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 90 | 100 | 103 | 98 | 7.10 | cps |
| Erbium | 164-2 | 30 | 20 | 23 | 24 | 20.83 | cps |
| Gadolinium | 160-1 | 103 | 137 | 83 | 108 | 25.00 | cps |
| Gadolinium | 160-2 | 27 | 17 | 23 | 22 | 22.91 | cps |
| Holmium | 165-1 | 20753346 | 20800179 | 21049186 | 20867570 | 0.76 | cps |
| Holmium | 165-2 | 6634503 | 6665388 | 6623623 | 6641171 | 0.33 | cps |
| Indium | 115-1 | 16616756 | 16574874 | 16616445 | 16602692 | 0.15 | cps |
| Indium | 115-2 | 1420781 | 1423616 | 1401077 | 1415158 | 0.87 | cps |
| Iron | 54-2 | 733 | 733 | 710 | 726 | 1.86 | cps |
| Iron | 56-2 | 11481 | 11765 | 10931 | 11392 | 3.72 | cps |
| Iron | 57-2 | 260 | 287 | 297 | 281 | 6.74 | cps |
| Krypton | 83-1 | 240 | 267 | 240 | 249 | 6.19 | cps |
| Lead | 206-1 | 4087 | 3817 | 3957 | 3954 | 3.42 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3507 | 3214 | 3220 | 3314 | 5.06 | cps |
| Lead | 208-1 | 16334 | 15170 | 14587 | 15364 | 5.79 | cps |
| Lithium | 6-1 | 7785162 | 7739798 | 7829087 | 7784682 | 0.57 | cps |
| Magnesium | 24-2 | 2530 | 2387 | 2567 | 2495 | 3.81 | cps |
| Manganese | 55-2 | 300 | 303 | 330 | 311 | 5.29 | cps |
| Molybdenum | 94-1 | 1437 | 1037 | 1057 | 1177 | 19.16 | cps |
| Molybdenum | 95-1 | 1643 | 1110 | 1237 | 1330 | 20.95 | cps |
| Molybdenum | 96-1 | 1850 | 1487 | 1217 | 1518 | 20.94 | cps |
| Molybdenum | 97-1 | 953 | 790 | 643 | 796 | 19.49 | cps |
| Molybdenum | 98-1 | 2707 | 2064 | 1657 | 2142 | 24.72 | cps |
| Neodymium | 150-1 | 17 | 20 | 20 | 19 | 10.18 | cps |
| Neodymium | 150-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 1260 | 1307 | 1447 | 1338 | 7.26 | cps |
| Phosphorus | 31-2 | 80 | 77 | 90 | 82 | 8.44 | cps |
| Potassium | 39-2 | 11134 | 11365 | 10931 | 11143 | 1.95 | cps |
| Rhodium | 103-1 | 15716142 | 15441275 | 15807817 | 15655078 | 1.22 | cps |
| Rhodium | 103-2 | 5591971 | 5701259 | 5524253 | 5605828 | 1.59 | cps |
| Scandium | 45-1 | 11047170 | 10958330 | 10971621 | 10992374 | 0.44 | cps |
| Scandium | 45-2 | 194278 | 195551 | 193100 | 194309 | 0.63 | cps |
| Selenium | 82-1 | 30 | -17 | 77 | 30 | 155.53 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 0 | 10 | 23 | 11 | 105.35 | cps |
| Silicon | 28-1 | 546624 | 539718 | 540953 | 542432 | 0.68 | cps |
| Silver | 107-1 | 1023 | 937 | 753 | 904 | 15.24 | cps |
| Silver | 109-1 | 987 | 873 | 670 | 843 | 19.03 | cps |
| Sodium | 23-2 | 69310 | 69746 | 68335 | 69130 | 1.04 | cps |
| Strontium | 86-1 | 650 | 627 | 623 | 633 | 2.29 | cps |
| Strontium | 88-1 | 1967 | 1793 | 1817 | 1859 | 5.06 | cps |
| Sulfur | 34-1 | 728143 | 723170 | 724050 | 725121 | 0.37 | cps |
| Terbium | 159-1 | 21242294 | 21554426 | 21619358 | 21472026 | 0.94 | cps |
| Terbium | 159-2 | 6363219 | 6345993 | 6358420 | 6355877 | 0.14 | cps |
| Thallium | 203-1 | 1050 | 953 | 960 | 988 | 5.47 | cps |
| Thallium | 205-1 | 2427 | 2264 | 2064 | 2251 | 8.08 | cps |
| Tin | 118-1 | 3387 | 3470 | 3524 | 3460 | 1.99 | cps |
| Titanium | 47-1 | 883 | 837 | 800 | 840 | 4.97 | cps |
| Uranium | 238-1 | 827 | 517 | 430 | 591 | 35.28 | cps |

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

| | | | |
|---|---|---|---|
| LB Number : | LB134674 | Operator : | Jaswal |
| Lab Sample ID : | CCB022 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB022 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-11 14:53:49 | DataFile Name : | 034CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 30 | 20 | 21 | 39.75 | cps |
| Ytterbium | 172-1 | 93 | 83 | 123 | 100 | 20.82 | cps |
| Ytterbium | 172-2 | 60 | 37 | 47 | 48 | 24.50 | cps |
| Ytterbium | 176-1 | 1910 | 1954 | 1923 | 1929 | 1.15 | cps |
| Ytterbium | 176-2 | 280 | 237 | 297 | 271 | 11.42 | cps |
| Yttrium | 89-1 | 28370380 | 28226698 | 28540556 | 28379211 | 0.55 | cps |
| Yttrium | 89-2 | 1811326 | 1814681 | 1779172 | 1801726 | 1.09 | cps |
| Zinc | 66-2 | 330 | 273 | 287 | 297 | 9.99 | cps |
| Zirconium | 90-1 | 1393 | 1420 | 1223 | 1346 | 7.93 | cps |
| Zirconium | 91-1 | 300 | 343 | 197 | 280 | 26.91 | cps |

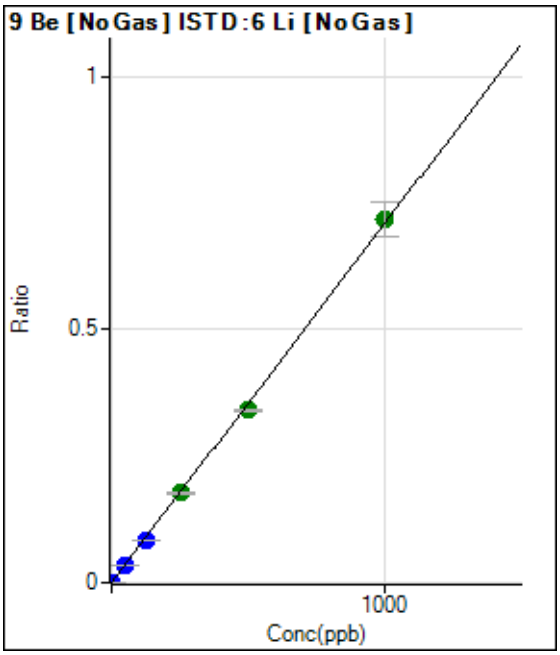
Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

# Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021225MSA-2.b\
Analysis File: P8021225MSA-2.batch.bin
DA Date-Time: 2025-02-12 16:44:29
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2025-02-12 13:30:55 |
| 2 | 005CALS.d | S02 | 2025-02-12 13:34:17 |
| 3 | 006CALB.d | S03 | 2025-02-12 13:37:40 |
| 4 | 007CALS.d | S04 | 2025-02-12 13:40:47 |
| 5 | 008CALS.d | S05 | 2025-02-12 13:43:47 |
| 6 | 009CALS.d | S06 | 2025-02-12 13:46:37 |
| 7 | 010CALS.d | S07 | 2025-02-12 13:49:25 |
| 8 | 011CALS.d | S08 | 2025-02-12 13:52:10 |

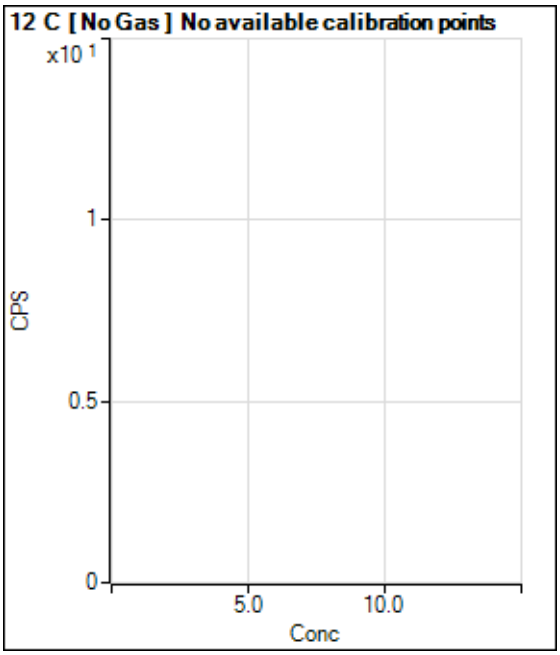
Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1051.99 | 0.0001 | P | 2.0 |
| 2 | ☐ | 1.000 | 1.067 | 7090.00 | 0.0009 | P | 3.7 |
| 3 | ☐ | 50.000 | 47.513 | 269252.02 | 0.0338 | P | 0.9 |
| 4 | ☐ | 125.000 | 119.225 | 666466.44 | 0.0847 | P | 1.8 |
| 5 | ☐ | 250.000 | 249.809 | 1373729.72 | 0.1773 | A | 1.6 |
| 6 | ☐ | 500.000 | 479.706 | 2578235.30 | 0.3403 | A | 2.0 |
| 7 | ☐ | 1000.000 | 1011.041 | 5057788.26 | 0.7171 | A | 9.7 |
| 8 | ☐ | | | 2405.32 | 0.0004 | P | 7.7 |

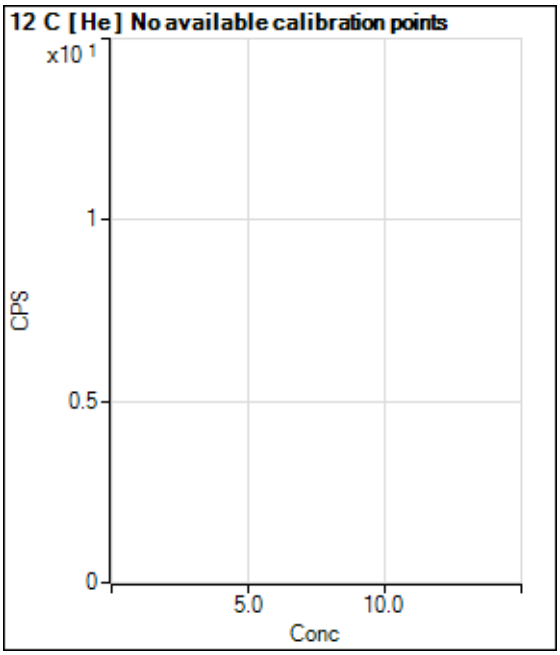
y = 7.0918E-004 * x + 1.3040E-004
R = 0.9997
DL = 0.01081
BEC = 0.1839

Weight: <None>
Min Conc: 0

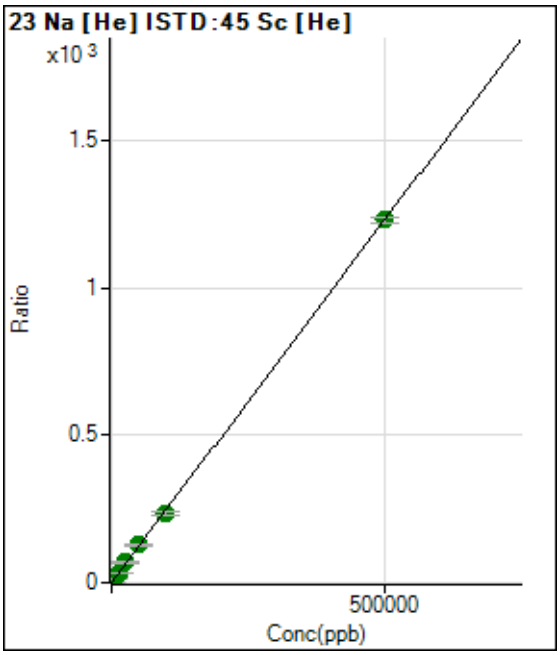



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 2482245.12 | | A | 2.1 |
| 2 | ☐ | | | 2665918.08 | | A | 0.8 |
| 3 | ☐ | | | 2630788.07 | | A | 1.4 |
| 4 | ☐ | | | 2987644.61 | | A | 0.3 |
| 5 | ☐ | | | 3206166.89 | | A | 1.4 |
| 6 | ☐ | | | 3531106.23 | | A | 3.0 |
| 7 | ☐ | | | 4425070.18 | | A | 4.5 |
| 8 | ☐ | | | 3983160.91 | | A | 3.6 |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 15502.74 | | P | 0.3 |
| 2 | ☐ | | | 16744.09 | | P | 1.8 |
| 3 | ☐ | | | 17057.76 | | P | 2.6 |
| 4 | ☐ | | | 19802.30 | | P | 1.8 |
| 5 | ☐ | | | 21422.36 | | P | 2.3 |
| 6 | ☐ | | | 24913.37 | | P | 1.3 |
| 7 | ☐ | | | 33086.06 | | P | 1.5 |
| 8 | ☐ | | | 35955.02 | | P | 0.9 |

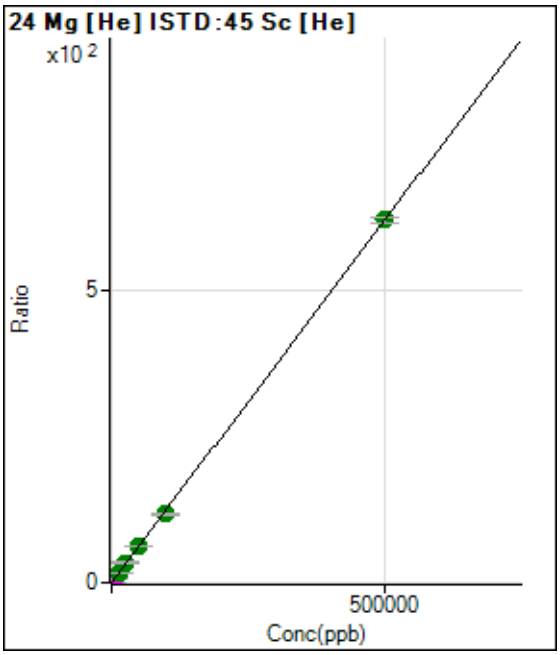



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 67553.06 | 0.3960 | P | 0.9 |
| 2 | ☐ | 500.000 | 569.474 | 299918.61 | 1.7972 | P | 0.8 |
| 3 | ☐ | 5000.000 | 5209.943 | 2279491.09 | 13.2153 | A | 1.9 |
| 4 | ☐ | 12500.000 | 12975.411 | 5557475.40 | 32.3226 | A | 1.9 |
| 5 | ☐ | 25000.000 | 27699.506 | 11216594.42 | 68.5519 | A | 6.5 |
| 6 | ☐ | 50000.000 | 51771.559 | 21695174.95 | 127.7824 | A | 1.5 |
| 7 | ☐ | 100000.00 | 96359.322 | 42248531.87 | 237.4928 | A | 5.6 |
| 8 | ☐ | 500000.00 | 500401.95 | 196398228.1 | 1,231.659 | A | 1.6 |

y = 0.0025 * x + 0.3960
R = 0.9999
DL = 4.364
BEC = 160.9

Weight: <None>
Min Conc: 0

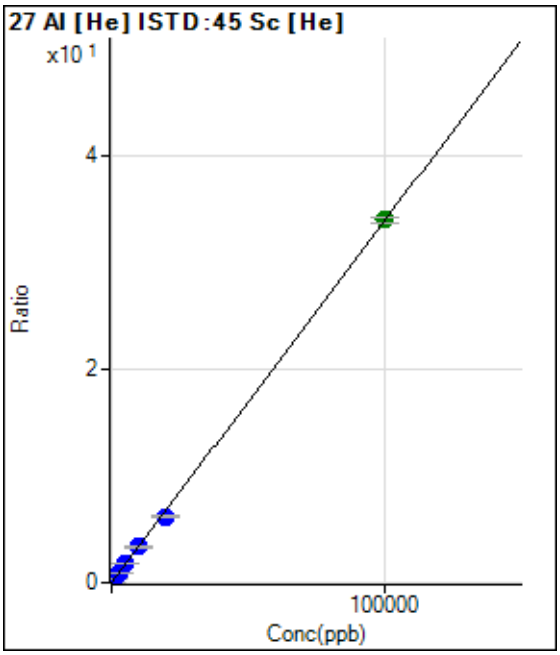
Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2725.84 | 0.0160 | P | 5.2 |
| 2 | ☐ | 500.000 | 568.727 | 120459.27 | 0.7218 | P | 0.7 |
| 3 | ☐ | 5000.000 | 5176.607 | 1110929.87 | 6.4405 | M | 1.7 |
| 4 | ☐ | 12500.000 | 12962.738 | 2768866.52 | 16.1036 | A | 1.9 |
| 5 | ☐ | 25000.000 | 27513.986 | 5587338.39 | 34.1626 | A | 7.5 |
| 6 | ☐ | 50000.000 | 51047.445 | 10759501.99 | 63.3691 | A | 1.7 |
| 7 | ☐ | 100000.00 | 94321.166 | 20828569.41 | 117.0746 | A | 5.3 |
| 8 | ☐ | 500000.00 | 500891.92 | 99126064.08 | 621.6549 | A | 1.7 |

y = 0.0012 * x + 0.0160
R = 0.9999
DL = 1.993
BEC = 12.88

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 81.11 | 0.0005 | P | 33.9 |
| 2 | ☐ | 20.000 | 21.760 | 1308.96 | 0.0078 | P | 2.0 |
| 3 | ☐ | 1000.000 | 991.243 | 57989.25 | 0.3362 | P | 1.0 |
| 4 | ☐ | 2500.000 | 2493.481 | 145283.61 | 0.8449 | P | 0.8 |
| 5 | ☐ | 5000.000 | 5327.954 | 295166.21 | 1.8049 | P | 7.6 |
| 6 | ☐ | 10000.000 | 9908.373 | 569787.96 | 3.3561 | P | 1.7 |
| 7 | ☐ | 20000.000 | 18307.738 | 1103158.31 | 6.2006 | P | 5.3 |
| 8 | ☐ | 100000.00 | 100331.46 | 5418256.24 | 33.9791 | A | 1.5 |

y = 3.3866E-004 * x + 4.7435E-004
R = 0.9998
DL = 1.424
BEC = 1.401

Weight: <None>
Min Conc: 0

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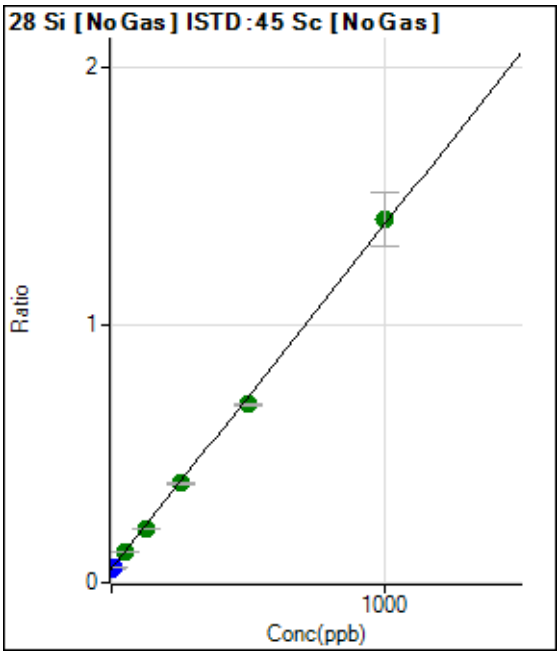
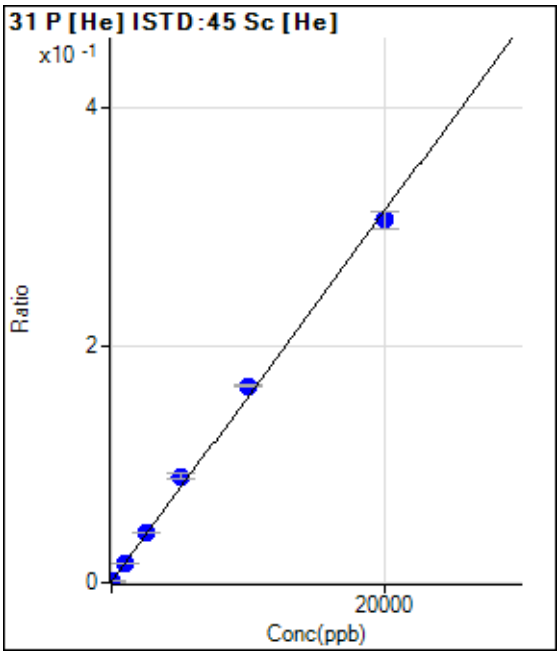



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 513786.55 | 0.0542 | P | 1.4 |
| 2 | ☐ | 10.000 | 6.305 | 583924.95 | 0.0626 | P | 1.9 |
| 3 | ☐ | 50.000 | 48.589 | 1113760.49 | 0.1190 | A | 1.9 |
| 4 | ☐ | 125.000 | 115.826 | 1989021.67 | 0.2087 | A | 0.5 |
| 5 | ☐ | 250.000 | 247.461 | 3565654.15 | 0.3842 | A | 2.0 |
| 6 | ☐ | 500.000 | 476.595 | 6357393.79 | 0.6898 | A | 1.7 |
| 7 | ☐ | 1000.000 | 1013.592 | 11823780.38 | 1.4059 | A | 15.0 |
| 8 | ☐ | | | 666687.71 | 0.0785 | P | 1.8 |

y = 0.0013 * x + 0.0542
R = 0.9996
DL = 1.67
BEC = 40.67

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -26.096 | 68.89 | 0.0004 | P | 35.5 |
| 2 | ☐ | 0.000 | 26.096 | 203.34 | 0.0012 | P | 11.0 |
| 3 | ☐ | 1000.000 | 1003.878 | 2846.98 | 0.0165 | P | 2.8 |
| 4 | ☐ | 2500.000 | 2618.901 | 7177.40 | 0.0417 | P | 1.2 |
| 5 | ☐ | 5000.000 | 5702.013 | 14717.54 | 0.0899 | P | 6.2 |
| 6 | ☐ | 10000.000 | 10565.025 | 28175.17 | 0.1659 | P | 0.5 |
| 7 | ☐ | 20000.000 | 19526.928 | 54448.33 | 0.3060 | P | 4.9 |
| 8 | ☐ | | | 103.34 | 0.0006 | P | 14.5 |

y = 1.5629E-005 * x + 8.1080E-004
R = 0.9986
DL = 26.6
BEC = 51.88

Weight: <None>
Min Conc: 0

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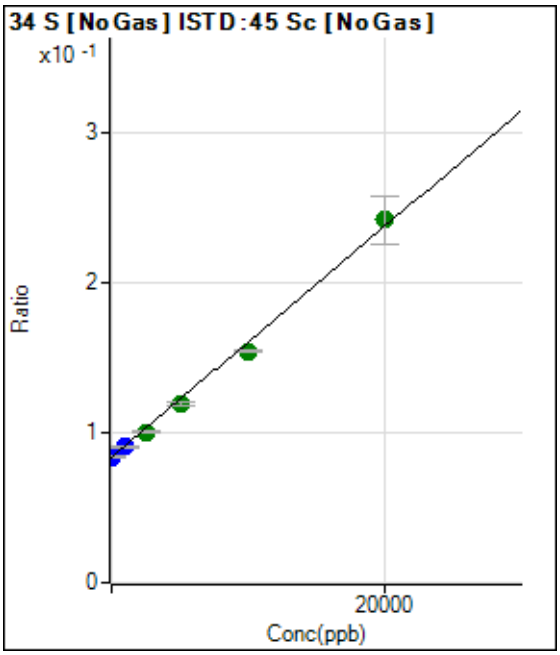
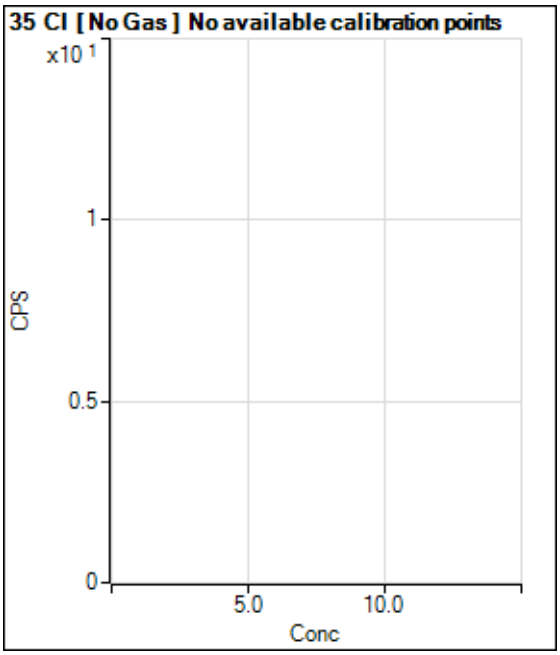



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -34.604 | 789033.72 | 0.0833 | P | 1.3 |
| 2 | ☐ | 0.000 | 34.604 | 781322.83 | 0.0838 | P | 1.9 |
| 3 | ☐ | 1000.000 | 942.166 | 849562.21 | 0.0908 | P | 1.4 |
| 4 | ☐ | 2500.000 | 2156.011 | 954203.86 | 0.1001 | A | 0.7 |
| 5 | ☐ | 5000.000 | 4601.899 | 1103502.58 | 0.1189 | A | 2.1 |
| 6 | ☐ | 10000.000 | 9194.068 | 1421218.95 | 0.1542 | A | 1.6 |
| 7 | ☐ | 20000.000 | 20548.381 | 2033713.53 | 0.2415 | A | 13.2 |
| 8 | ☐ | | | 725253.80 | 0.0853 | P | 0.5 |

y = 7.6846E-006 * x + 0.0835
R = 0.9985
DL = 531.5
BEC = 1.087E+04

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 153321.99 | | P | 0.3 |
| 2 | ☐ | | | 142870.12 | | P | 0.3 |
| 3 | ☐ | | | 135818.92 | | P | 0.5 |
| 4 | ☐ | | | 138093.44 | | P | 1.1 |
| 5 | ☐ | | | 141065.03 | | P | 0.6 |
| 6 | ☐ | | | 149636.17 | | P | 0.5 |
| 7 | ☐ | | | 170263.62 | | P | 1.9 |
| 8 | ☐ | | | 127679.25 | | P | 0.9 |

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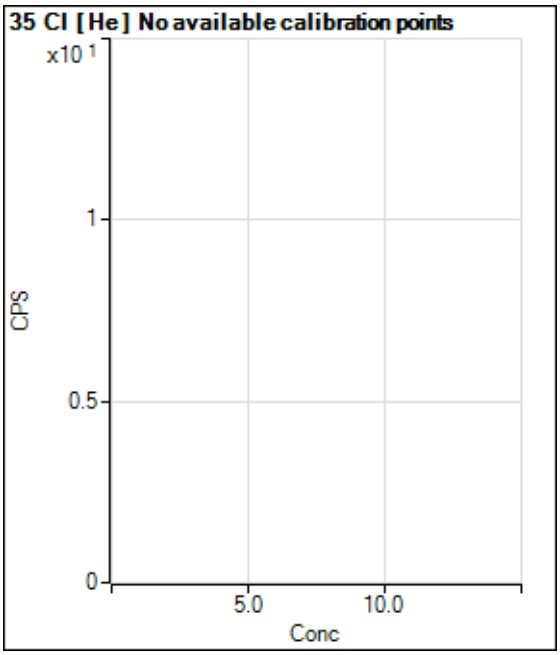
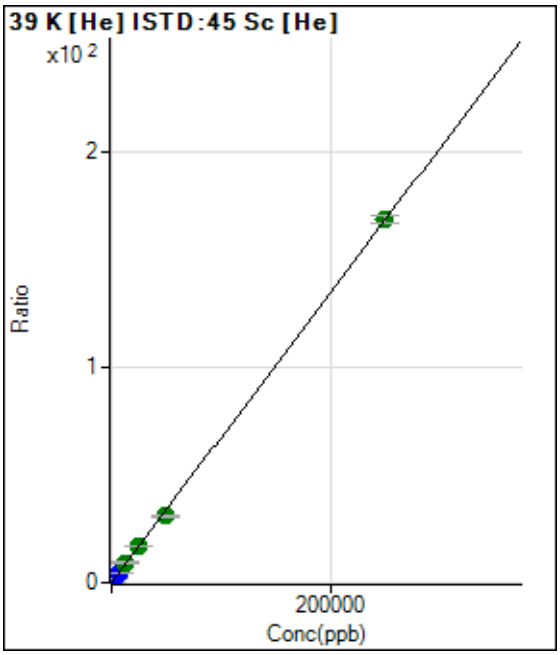



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 451.12 | | P | 5.6 |
| 2 | ☐ | | | 520.01 | | P | 8.4 |
| 3 | ☐ | | | 500.01 | | P | 11.6 |
| 4 | ☐ | | | 462.24 | | P | 6.7 |
| 5 | ☐ | | | 470.01 | | P | 17.1 |
| 6 | ☐ | | | 514.46 | | P | 1.0 |
| 7 | ☐ | | | 633.35 | | P | 5.7 |
| 8 | ☐ | | | 463.35 | | P | 9.0 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 9375.35 | 0.0550 | P | 3.2 |
| 2 | ☐ | 500.000 | 528.975 | 68514.86 | 0.4106 | P | 1.1 |
| 3 | ☐ | 2500.000 | 2436.600 | 292033.09 | 1.6929 | P | 0.7 |
| 4 | ☐ | 6250.000 | 6138.820 | 719036.40 | 4.1817 | P | 0.7 |
| 5 | ☐ | 12500.000 | 13618.800 | 1506872.04 | 9.2100 | A | 6.7 |
| 6 | ☐ | 25000.000 | 24965.009 | 2858948.67 | 16.8374 | A | 0.8 |
| 7 | ☐ | 50000.000 | 45865.703 | 5495554.15 | 30.8877 | A | 5.1 |
| 8 | ☐ | 250000.00 | 250777.77 | 26888799.88 | 168.6375 | A | 2.2 |

y = 6.7224E-004 * x + 0.0550
R = 0.9998
DL = 7.903
BEC = 81.76

Weight: <None>
Min Conc: 0

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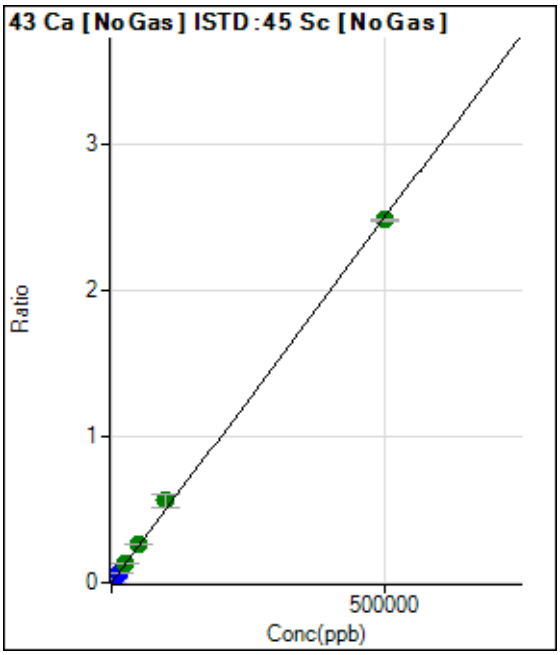
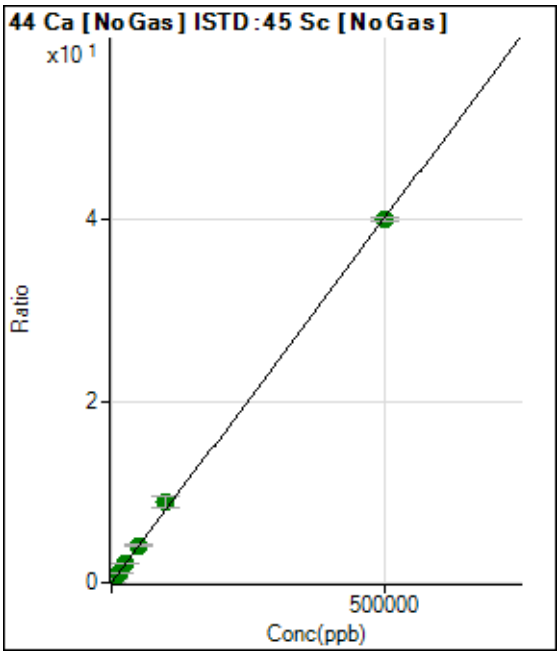



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 502.24 | 0.0001 | P | 9.0 |
| 2 | ☐ | 500.000 | 566.044 | 26825.09 | 0.0029 | P | 3.3 |
| 3 | ☐ | 5000.000 | 5166.687 | 241782.08 | 0.0258 | P | 0.7 |
| 4 | ☐ | 12500.000 | 12661.848 | 602737.46 | 0.0632 | P | 1.1 |
| 5 | ☐ | 25000.000 | 26638.433 | 1234123.24 | 0.1330 | A | 2.0 |
| 6 | ☐ | 50000.000 | 52451.615 | 2413012.53 | 0.2618 | A | 1.7 |
| 7 | ☐ | 100000.00 | 112819.96 | 4730705.03 | 0.5631 | A | 16.1 |
| 8 | ☐ | 500000.00 | 497103.14 | 21082721.63 | 2.4807 | A | 0.9 |

y = 4.9903E-006 * x + 5.2953E-005
R = 0.9996
DL = 2.873
BEC = 10.61

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 20725.05 | 0.0022 | P | 2.5 |
| 2 | ☐ | 500.000 | 554.830 | 435755.28 | 0.0467 | P | 1.4 |
| 3 | ☐ | 5000.000 | 5217.146 | 3940861.26 | 0.4211 | A | 1.9 |
| 4 | ☐ | 12500.000 | 12564.643 | 9637649.09 | 1.0111 | A | 0.6 |
| 5 | ☐ | 25000.000 | 26342.653 | 19649577.90 | 2.1175 | A | 2.6 |
| 6 | ☐ | 50000.000 | 51359.385 | 38035017.49 | 4.1264 | A | 1.2 |
| 7 | ☐ | 100000.00 | 110315.92 | 74518331.67 | 8.8607 | A | 15.0 |
| 8 | ☐ | 500000.00 | 497729.90 | 339690132.7 | 39.9707 | A | 1.0 |

y = 8.0302E-005 * x + 0.0022
R = 0.9998
DL = 2.065
BEC = 27.24

Weight: <None>
Min Conc: 0

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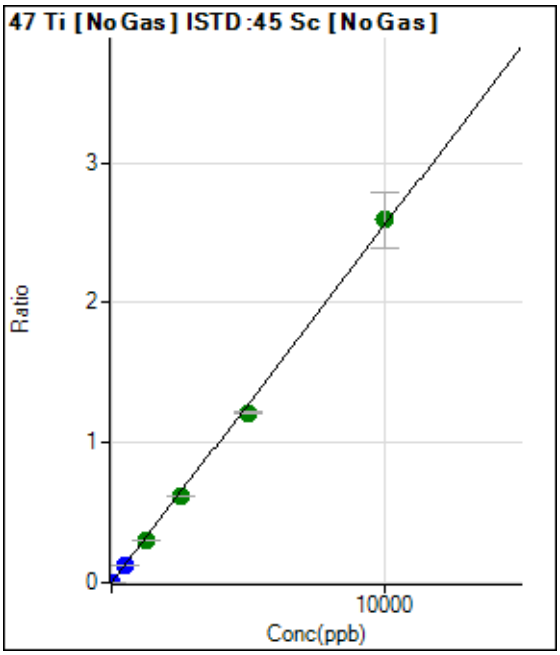
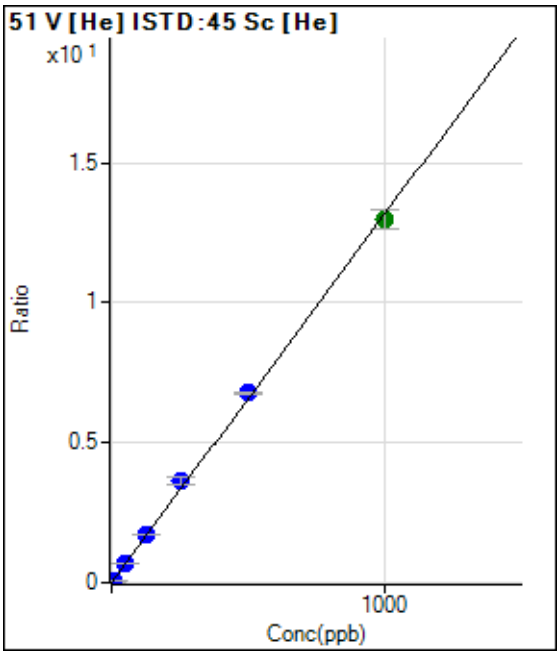



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 308.90 | 0.0000 | P | 10.4 |
| 2 | ☐ | 5.000 | 5.191 | 12661.24 | 0.0014 | P | 2.2 |
| 3 | ☐ | 500.000 | 469.232 | 1121575.47 | 0.1199 | P | 0.9 |
| 4 | ☐ | 1250.000 | 1165.121 | 2836024.64 | 0.2975 | A | 0.6 |
| 5 | ☐ | 2500.000 | 2422.521 | 5741062.76 | 0.6186 | A | 1.8 |
| 6 | ☐ | 5000.000 | 4757.691 | 11199184.56 | 1.2149 | A | 1.0 |
| 7 | ☐ | 10000.000 | 10152.672 | 21797439.40 | 2.5925 | A | 15.3 |
| 8 | ☐ | | | 4817.52 | 0.0006 | P | 7.6 |

y = 2.5535E-004 * x + 3.2589E-005
R = 0.9995
DL = 0.03987
BEC = 0.1276

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14.44 | 0.0001 | P | 14.0 |
| 2 | ☐ | 5.000 | 5.754 | 12649.04 | 0.0758 | P | 1.3 |
| 3 | ☐ | 50.000 | 51.183 | 116191.37 | 0.6735 | P | 0.7 |
| 4 | ☐ | 125.000 | 129.474 | 292942.76 | 1.7036 | P | 0.5 |
| 5 | ☐ | 250.000 | 276.013 | 594134.70 | 3.6317 | P | 6.9 |
| 6 | ☐ | 500.000 | 515.775 | 1152272.11 | 6.7864 | P | 0.8 |
| 7 | ☐ | 1000.000 | 984.987 | 2305770.07 | 12.9601 | A | 5.2 |
| 8 | ☐ | | | 578.91 | 0.0036 | P | 6.5 |

y = 0.0132 * x + 8.4703E-005
R = 0.9994
DL = 0.002703
BEC = 0.006438

Weight: <None>
Min Conc: 0

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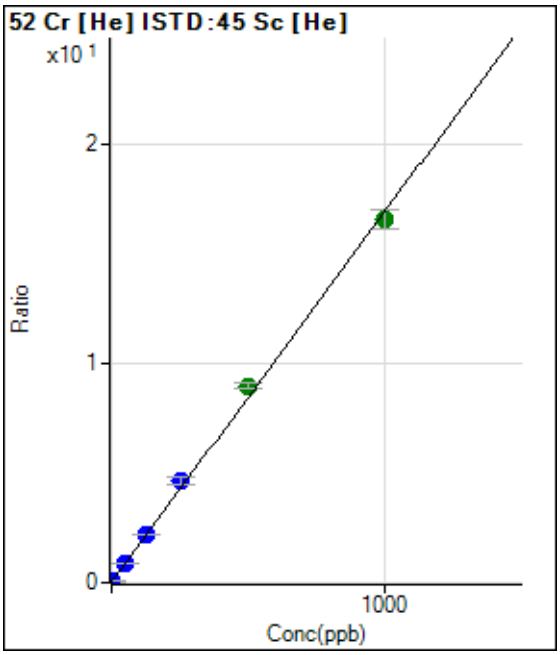
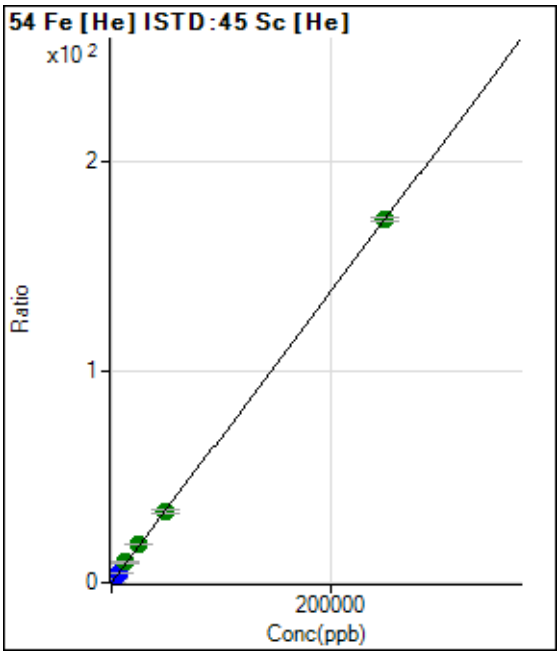



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2154.63 | 0.0126 | P | 2.6 |
| 2 | ☐ | 2.000 | 2.355 | 8752.73 | 0.0524 | P | 1.6 |
| 3 | ☐ | 50.000 | 50.937 | 150747.16 | 0.8739 | P | 0.8 |
| 4 | ☐ | 125.000 | 128.894 | 376912.70 | 2.1920 | P | 1.0 |
| 5 | ☐ | 250.000 | 273.427 | 758479.36 | 4.6359 | P | 6.6 |
| 6 | ☐ | 500.000 | 529.834 | 1523032.18 | 8.9714 | A | 2.8 |
| 7 | ☐ | 1000.000 | 978.692 | 2946298.15 | 16.5609 | A | 5.4 |
| 8 | ☐ | | | 9661.13 | 0.0606 | P | 0.7 |

y = 0.0169 * x + 0.0126
R = 0.9990
DL = 0.05882
BEC = 0.7468

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 702.25 | 0.0041 | P | 3.0 |
| 2 | ☐ | 50.000 | 60.479 | 7626.55 | 0.0457 | P | 0.5 |
| 3 | ☐ | 2500.000 | 2620.404 | 311507.61 | 1.8058 | P | 0.4 |
| 4 | ☐ | 6250.000 | 6516.190 | 771070.92 | 4.4844 | P | 0.9 |
| 5 | ☐ | 12500.000 | 14150.566 | 1593357.88 | 9.7334 | A | 5.4 |
| 6 | ☐ | 25000.000 | 26194.725 | 3058617.66 | 18.0145 | A | 1.5 |
| 7 | ☐ | 50000.000 | 48469.080 | 5929510.54 | 33.3294 | A | 5.3 |
| 8 | ☐ | 250000.00 | 250096.32 | 27421401.26 | 171.9598 | A | 1.1 |

y = 6.8756E-004 * x + 0.0041
R = 0.9999
DL = 0.5474
BEC = 5.987

Weight: <None>
Min Conc: 0

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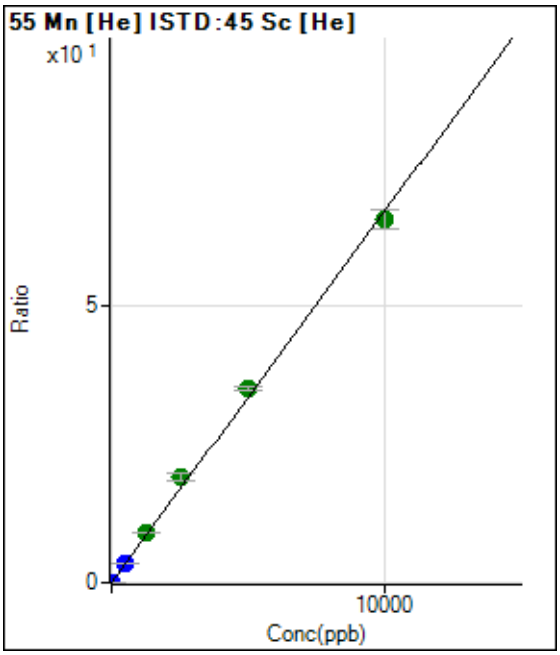
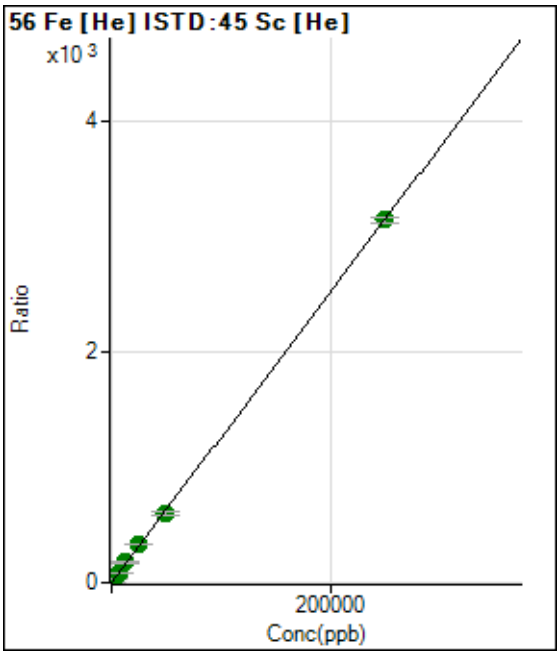



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 320.01 | 0.0019 | P | 17.8 |
| 2 | ☐ | 1.000 | 1.184 | 1634.55 | 0.0098 | P | 2.7 |
| 3 | ☐ | 500.000 | 523.342 | 603867.32 | 3.5008 | P | 1.7 |
| 4 | ☐ | 1250.000 | 1353.568 | 1556384.91 | 9.0515 | A | 1.8 |
| 5 | ☐ | 2500.000 | 2850.206 | 3116515.86 | 19.0577 | A | 7.8 |
| 6 | ☐ | 5000.000 | 5248.163 | 5957527.69 | 35.0899 | A | 1.6 |
| 7 | ☐ | 10000.000 | 9774.254 | 11625996.08 | 65.3503 | A | 5.4 |
| 8 | ☐ | | | 5423.30 | 0.0340 | P | 2.2 |

y = 0.0067 * x + 0.0019
R = 0.9988
DL = 0.1503
BEC = 0.2808

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 10640.71 | 0.0624 | P | 2.7 |
| 2 | ☐ | 50.000 | 58.227 | 132455.74 | 0.7937 | P | 1.0 |
| 3 | ☐ | 2500.000 | 2622.656 | 5693112.35 | 33.0029 | A | 0.9 |
| 4 | ☐ | 6250.000 | 6570.693 | 14201901.59 | 82.5902 | A | 1.1 |
| 5 | ☐ | 12500.000 | 13976.677 | 28729256.24 | 175.6093 | A | 6.8 |
| 6 | ☐ | 25000.000 | 26070.660 | 55610396.39 | 327.5096 | A | 1.1 |
| 7 | ☐ | 50000.000 | 48234.359 | 107785165.0 | 605.8854 | A | 5.5 |
| 8 | ☐ | 250000.00 | 250162.98 | 501034903.6 | 3,142.106 | A | 1.5 |

y = 0.0126 * x + 0.0624
R = 0.9999
DL = 0.4077
BEC = 4.966

Weight: <None>
Min Conc: 0

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On:2/12/2025 6:07:41 PM
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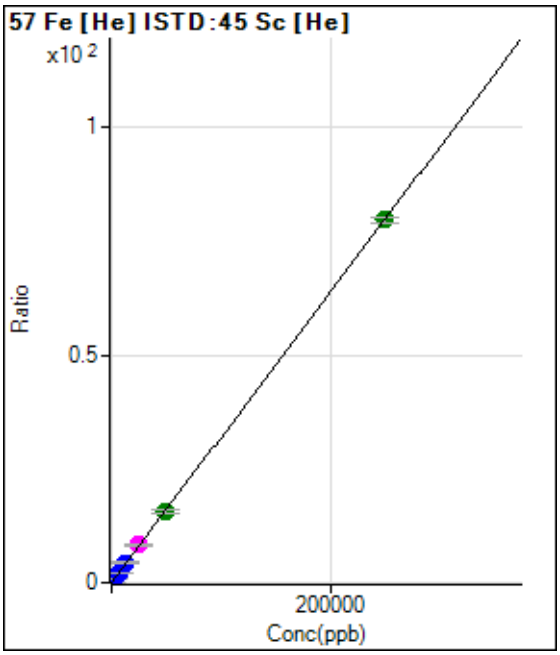
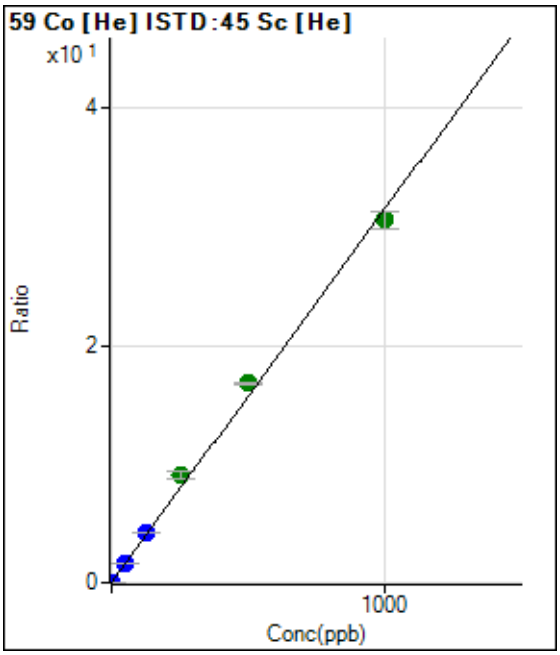



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 296.67 | 0.0017 | P | 6.5 |
| 2 | ☐ | 50.000 | 55.222 | 3227.07 | 0.0193 | P | 2.4 |
| 3 | ☐ | 2500.000 | 2578.393 | 142046.08 | 0.8235 | P | 0.8 |
| 4 | ☐ | 6250.000 | 6462.325 | 354434.36 | 2.0612 | P | 0.9 |
| 5 | ☐ | 12500.000 | 13701.567 | 714502.55 | 4.3683 | P | 7.3 |
| 6 | ☐ | 25000.000 | 25919.432 | 1402991.79 | 8.2621 | M | 1.2 |
| 7 | ☐ | 50000.000 | 48790.680 | 2766476.45 | 15.5509 | A | 5.6 |
| 8 | ☐ | 250000.00 | 250083.74 | 12708563.14 | 79.7014 | A | 1.9 |

y = 3.1869E-004 * x + 0.0017
R = 1.0000
DL = 1.071
BEC = 5.454

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 541.13 | 0.0032 | P | 7.7 |
| 2 | ☐ | 1.000 | 1.229 | 6987.35 | 0.0419 | P | 3.2 |
| 3 | ☐ | 50.000 | 53.382 | 290483.52 | 1.6839 | P | 0.9 |
| 4 | ☐ | 125.000 | 131.721 | 713684.34 | 4.1505 | P | 0.4 |
| 5 | ☐ | 250.000 | 288.453 | 1486470.20 | 9.0853 | A | 6.6 |
| 6 | ☐ | 500.000 | 534.528 | 2858166.94 | 16.8331 | A | 0.9 |
| 7 | ☐ | 1000.000 | 972.113 | 5446352.28 | 30.6107 | A | 5.1 |
| 8 | ☐ | | | 11522.54 | 0.0723 | P | 1.0 |

y = 0.0315 * x + 0.0032
R = 0.9982
DL = 0.02317
BEC = 0.1007

Weight: <None>
Min Conc: 0

Reviewed By:kareem
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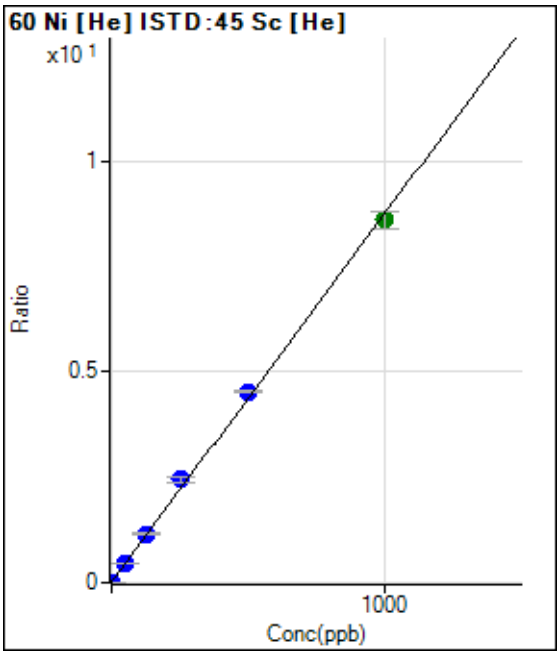
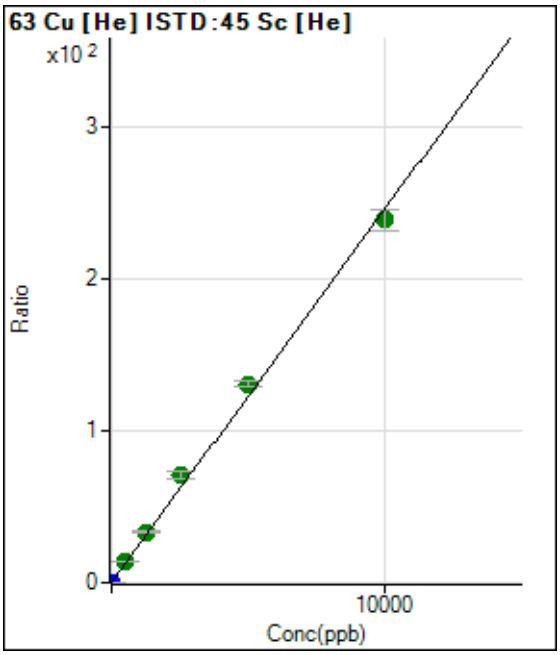



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1762.35 | 0.0103 | P | 6.4 |
| 2 | ☐ | 1.000 | 1.131 | 3372.65 | 0.0202 | P | 1.5 |
| 3 | ☐ | 50.000 | 52.744 | 81329.48 | 0.4715 | P | 1.4 |
| 4 | ☐ | 125.000 | 131.757 | 199860.99 | 1.1623 | P | 0.9 |
| 5 | ☐ | 250.000 | 278.471 | 399976.93 | 2.4451 | P | 7.1 |
| 6 | ☐ | 500.000 | 516.175 | 768045.97 | 4.5235 | P | 0.8 |
| 7 | ☐ | 1000.000 | 983.812 | 1532496.18 | 8.6123 | A | 4.7 |
| 8 | ☐ | | | 6079.13 | 0.0381 | P | 2.4 |

y = 0.0087 * x + 0.0103
R = 0.9993
DL = 0.2283
BEC = 1.181

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2135.74 | 0.0125 | P | 3.2 |
| 2 | ☐ | 2.000 | 2.327 | 11627.07 | 0.0697 | P | 1.6 |
| 3 | ☐ | 500.000 | 550.980 | 2336595.78 | 13.5453 | A | 0.5 |
| 4 | ☐ | 1250.000 | 1361.423 | 5751679.15 | 33.4508 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2879.213 | 11571406.77 | 70.7296 | A | 6.8 |
| 6 | ☐ | 5000.000 | 5329.021 | 22222527.72 | 130.9000 | A | 2.3 |
| 7 | ☐ | 10000.000 | 9724.209 | 42484296.59 | 238.8514 | A | 6.0 |
| 8 | ☐ | | | 9821.25 | 0.0616 | P | 2.9 |

y = 0.0246 * x + 0.0125
R = 0.9983
DL = 0.04942
BEC = 0.5096

Weight: <None>
Min Conc: 0

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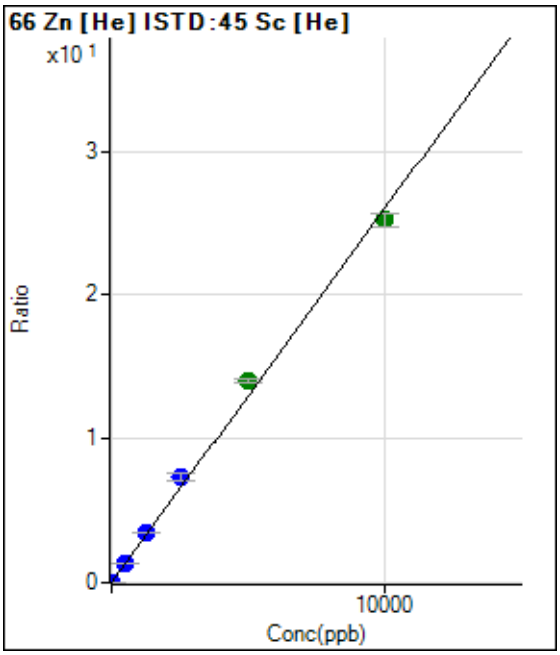
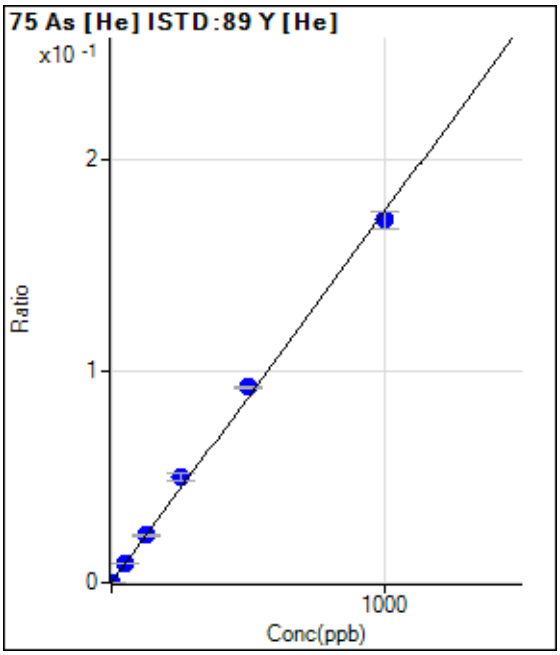



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 165.56 | 0.0010 | P | 8.3 |
| 2 | ☐ | 2.000 | 5.990 | 2759.19 | 0.0165 | P | 0.3 |
| 3 | ☐ | 500.000 | 534.477 | 239686.82 | 1.3895 | P | 1.0 |
| 4 | ☐ | 1250.000 | 1333.483 | 595836.95 | 3.4652 | P | 0.9 |
| 5 | ☐ | 2500.000 | 2831.956 | 1203957.99 | 7.3582 | P | 6.5 |
| 6 | ☐ | 5000.000 | 5396.355 | 2380329.37 | 14.0203 | A | 1.7 |
| 7 | ☐ | 10000.000 | 9706.674 | 4488406.22 | 25.2181 | A | 4.0 |
| 8 | ☐ | | | 2426.90 | 0.0152 | P | 1.9 |

y = 0.0026 * x + 9.7074E-004
R = 0.9981
DL = 0.09354
BEC = 0.3737

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 40.2 |
| 2 | ☐ | 1.000 | 1.178 | 317.78 | 0.0002 | P | 8.7 |
| 3 | ☐ | 50.000 | 51.815 | 13662.29 | 0.0091 | P | 2.2 |
| 4 | ☐ | 125.000 | 127.766 | 34317.31 | 0.0225 | P | 1.5 |
| 5 | ☐ | 250.000 | 286.040 | 71146.25 | 0.0503 | P | 7.5 |
| 6 | ☐ | 500.000 | 526.176 | 136946.12 | 0.0925 | P | 1.2 |
| 7 | ☐ | 1000.000 | 977.465 | 265783.55 | 0.1718 | P | 4.7 |
| 8 | ☐ | | | 140.00 | 0.0001 | P | 29.5 |

y = 1.7571E-004 * x + 1.1280E-005
R = 0.9987
DL = 0.07733
BEC = 0.0642

Weight: <None>
Min Conc: 0

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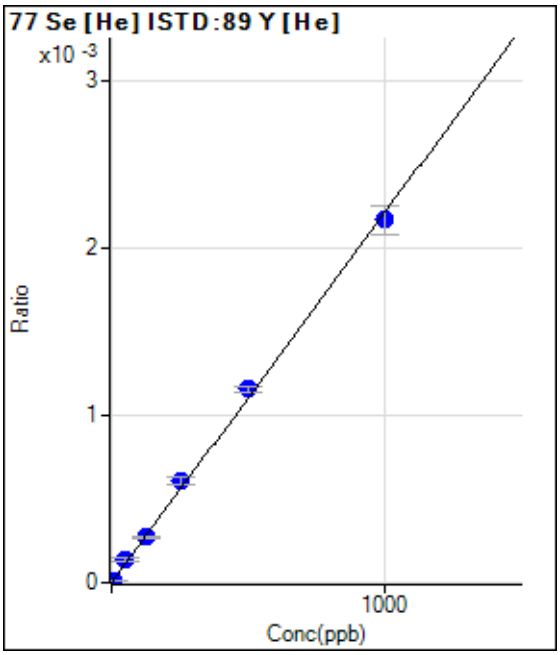
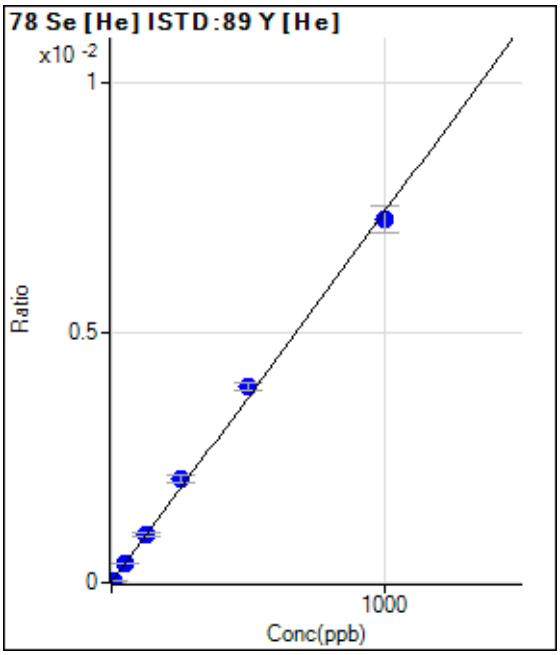



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 0.00 | 0.0000 | P | |
| 2 | ☐ | 5.000 | 4.846 | 15.56 | 0.0000 | P | 13.8 |
| 3 | ☐ | 50.000 | 63.733 | 211.11 | 0.0001 | P | 18.9 |
| 4 | ☐ | 125.000 | 124.200 | 418.90 | 0.0003 | P | 5.2 |
| 5 | ☐ | 250.000 | 274.967 | 860.04 | 0.0006 | P | 6.3 |
| 6 | ☐ | 500.000 | 523.348 | 1711.23 | 0.0012 | P | 2.2 |
| 7 | ☐ | 1000.000 | 981.499 | 3349.32 | 0.0022 | P | 8.1 |
| 8 | ☐ | | | 2.22 | 0.0000 | P | 86.6 |

y = 2.2076E-006 * x + 0.0000E+000
R = 0.9992
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7.78 | 0.0000 | P | 89.5 |
| 2 | ☐ | 5.000 | 5.362 | 65.55 | 0.0000 | P | 21.5 |
| 3 | ☐ | 50.000 | 51.057 | 575.58 | 0.0004 | P | 0.8 |
| 4 | ☐ | 125.000 | 128.989 | 1470.09 | 0.0010 | P | 6.0 |
| 5 | ☐ | 250.000 | 278.623 | 2932.56 | 0.0021 | P | 7.1 |
| 6 | ☐ | 500.000 | 526.610 | 5793.47 | 0.0039 | P | 4.0 |
| 7 | ☐ | 1000.000 | 978.986 | 11234.57 | 0.0073 | P | 7.4 |
| 8 | ☐ | | | 18.89 | 0.0000 | P | 27.8 |

y = 7.4165E-006 * x + 5.2963E-006
R = 0.9990
DL = 1.918
BEC = 0.7141

Weight: <None>
Min Conc: 0

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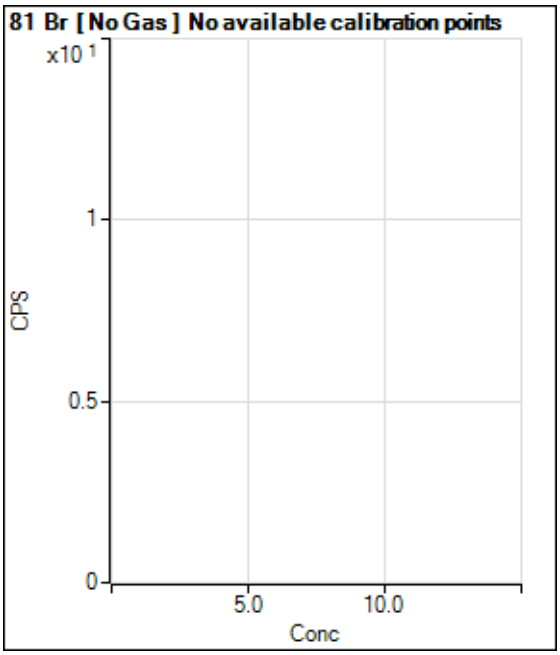
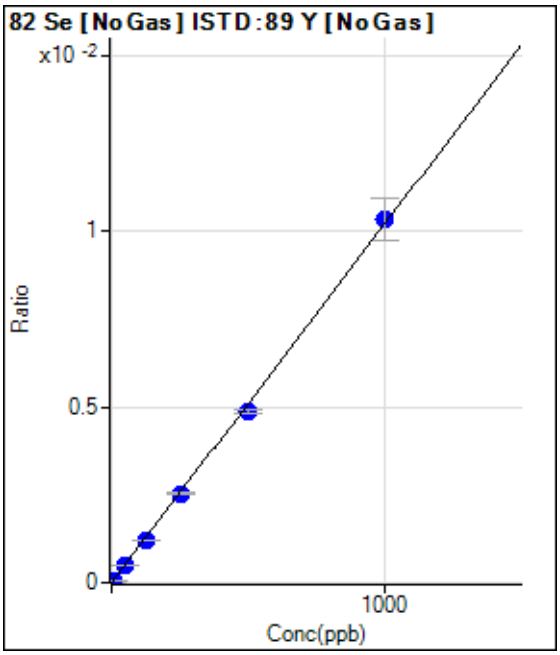



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 3482.69 | | P | 1.7 |
| 2 | ☐ | | | 3503.81 | | P | 1.0 |
| 3 | ☐ | | | 3510.47 | | P | 6.4 |
| 4 | ☐ | | | 3480.47 | | P | 5.6 |
| 5 | ☐ | | | 3510.47 | | P | 0.4 |
| 6 | ☐ | | | 3657.19 | | P | 2.2 |
| 7 | ☐ | | | 3772.76 | | P | 4.2 |
| 8 | ☐ | | | 3997.28 | | P | 2.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -21.11 | 0.0000 | P | -244. |
| 2 | ☐ | 5.000 | 5.504 | 1282.32 | 0.0001 | P | 4.5 |
| 3 | ☐ | 50.000 | 48.143 | 11369.38 | 0.0005 | P | 0.9 |
| 4 | ☐ | 125.000 | 118.653 | 28460.53 | 0.0012 | P | 2.2 |
| 5 | ☐ | 250.000 | 248.172 | 57768.31 | 0.0025 | P | 2.4 |
| 6 | ☐ | 500.000 | 478.465 | 110636.15 | 0.0049 | P | 1.9 |
| 7 | ☐ | 1000.000 | 1012.108 | 216248.04 | 0.0103 | P | 11.8 |
| 8 | ☐ | | | -5.55 | 0.0000 | P | -941. |

y = 1.0211E-005 * x - 9.2147E-007
R = 0.9996
DL = 0.661
BEC = -0.09024

Weight: <None>
Min Conc: 0

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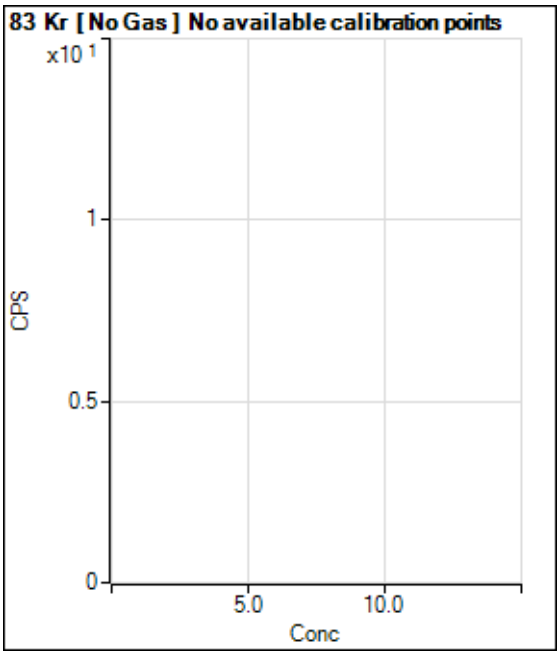
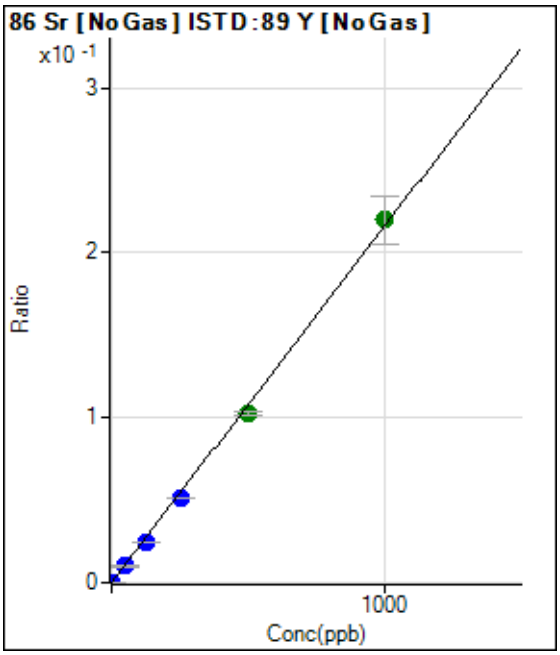



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 284.45 | | P | 10.6 |
| 2 | ☐ | | | 270.00 | | P | 5.7 |
| 3 | ☐ | | | 305.56 | | P | 2.7 |
| 4 | ☐ | | | 261.12 | | P | 10.7 |
| 5 | ☐ | | | 280.01 | | P | 8.6 |
| 6 | ☐ | | | 278.90 | | P | 13.4 |
| 7 | ☐ | | | 277.78 | | P | 9.8 |
| 8 | ☐ | | | 363.34 | | P | 11.0 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 706.69 | 0.0000 | P | 6.5 |
| 2 | ☐ | 1.000 | 1.001 | 5724.56 | 0.0002 | P | 4.5 |
| 3 | ☐ | 50.000 | 45.788 | 229882.38 | 0.0099 | P | 1.2 |
| 4 | ☐ | 125.000 | 113.039 | 574856.99 | 0.0245 | P | 1.2 |
| 5 | ☐ | 250.000 | 236.700 | 1166951.02 | 0.0512 | P | 1.0 |
| 6 | ☐ | 500.000 | 474.038 | 2320334.89 | 0.1024 | A | 2.1 |
| 7 | ☐ | 1000.000 | 1018.012 | 4597534.06 | 0.2200 | A | 13.5 |
| 8 | ☐ | | | 13766.84 | 0.0007 | P | 1.5 |

y = 2.1605E-004 * x + 3.0642E-005
R = 0.9994
DL = 0.02771
BEC = 0.1418

Weight: <None>
Min Conc: 0

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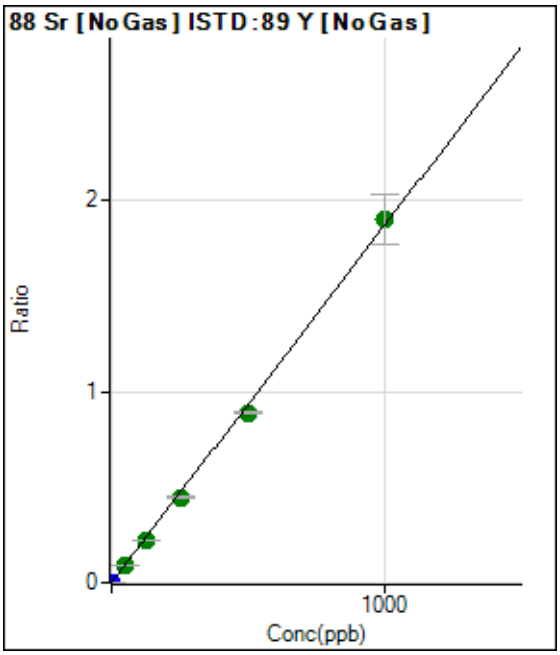
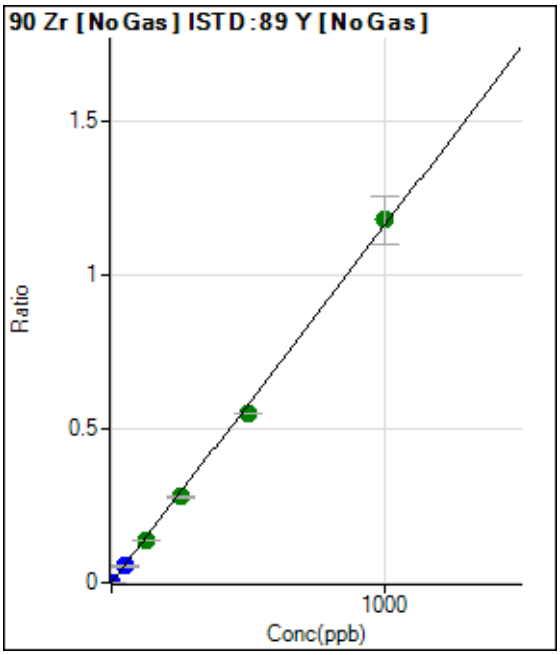



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2369.12 | 0.0001 | P | 4.8 |
| 2 | ☐ | 1.000 | 0.994 | 45480.45 | 0.0020 | P | 1.6 |
| 3 | ☐ | 50.000 | 47.589 | 2064294.09 | 0.0891 | A | 0.4 |
| 4 | ☐ | 125.000 | 116.086 | 5106016.52 | 0.2172 | A | 0.5 |
| 5 | ☐ | 250.000 | 239.185 | 10202893.81 | 0.4474 | A | 1.0 |
| 6 | ☐ | 500.000 | 476.261 | 20175464.84 | 0.8907 | A | 0.7 |
| 7 | ☐ | 1000.000 | 1015.808 | 39694754.96 | 1.8997 | A | 13.9 |
| 8 | ☐ | | | 116285.77 | 0.0055 | P | 1.2 |

y = 0.0019 * x + 1.0273E-004
R = 0.9995
DL = 0.00795
BEC = 0.05494

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 750.03 | 0.0000 | P | 3.8 |
| 2 | ☐ | 1.000 | 0.969 | 26832.54 | 0.0012 | P | 2.5 |
| 3 | ☐ | 50.000 | 45.856 | 1234226.39 | 0.0533 | P | 0.8 |
| 4 | ☐ | 125.000 | 116.769 | 3188118.84 | 0.1356 | A | 0.8 |
| 5 | ☐ | 250.000 | 240.587 | 6371408.03 | 0.2794 | A | 0.8 |
| 6 | ☐ | 500.000 | 475.198 | 12498538.15 | 0.5518 | A | 0.4 |
| 7 | ☐ | 1000.000 | 1015.990 | 24656225.47 | 1.1797 | A | 13.4 |
| 8 | ☐ | | | 39422.28 | 0.0019 | P | 2.1 |

y = 0.0012 * x + 3.2530E-005
R = 0.9995
DL = 0.00316
BEC = 0.02802

Weight: <None>
Min Conc: 0

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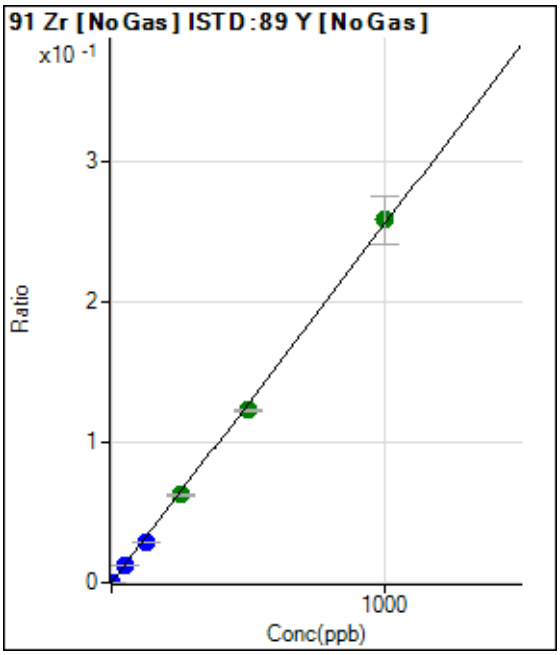
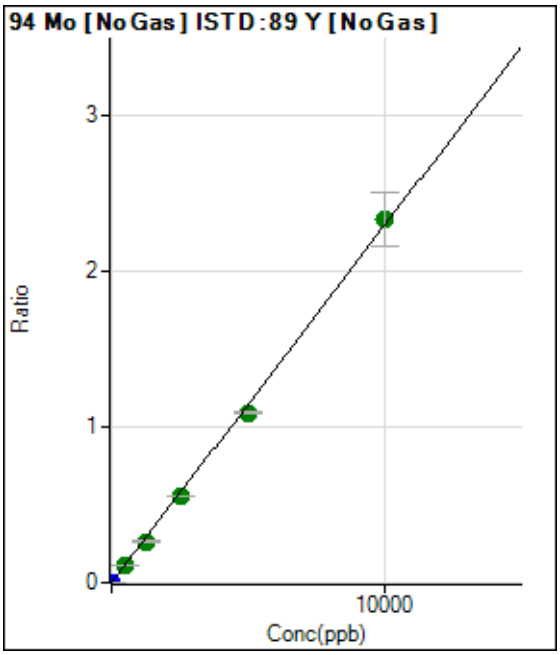



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 165.56 | 0.0000 | P | 7.6 |
| 2 | ☐ | 1.000 | 0.953 | 5810.16 | 0.0003 | P | 1.8 |
| 3 | ☐ | 50.000 | 45.793 | 271179.04 | 0.0117 | P | 0.6 |
| 4 | ☐ | 125.000 | 113.854 | 683887.09 | 0.0291 | P | 1.7 |
| 5 | ☐ | 250.000 | 244.443 | 1424274.32 | 0.0624 | A | 0.4 |
| 6 | ☐ | 500.000 | 481.297 | 2785039.54 | 0.1230 | A | 0.7 |
| 7 | ☐ | 1000.000 | 1012.344 | 5405172.28 | 0.2586 | A | 13.4 |
| 8 | ☐ | | | 9058.56 | 0.0004 | P | 2.2 |

y = 2.5545E-004 * x + 7.1818E-006
R = 0.9997
DL = 0.006381
BEC = 0.02811

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 501.13 | 0.0000 | P | 5.1 |
| 2 | ☐ | 5.000 | 5.867 | 31640.40 | 0.0014 | P | 2.5 |
| 3 | ☐ | 500.000 | 473.315 | 2509962.29 | 0.1083 | A | 1.5 |
| 4 | ☐ | 1250.000 | 1149.098 | 6182797.55 | 0.2630 | A | 2.3 |
| 5 | ☐ | 2500.000 | 2426.915 | 12667428.42 | 0.5555 | A | 1.5 |
| 6 | ☐ | 5000.000 | 4746.947 | 24609032.97 | 1.0864 | A | 1.0 |
| 7 | ☐ | 10000.000 | 10158.745 | 48545223.16 | 2.3250 | A | 14.8 |
| 8 | ☐ | | | 34796.88 | 0.0016 | P | 1.9 |

y = 2.2887E-004 * x + 2.1737E-005
R = 0.9995
DL = 0.01455
BEC = 0.09498

Weight: <None>
Min Conc: 0

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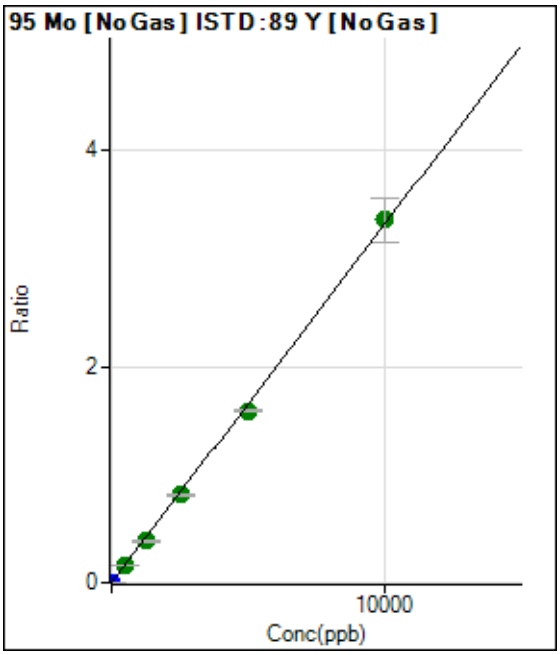
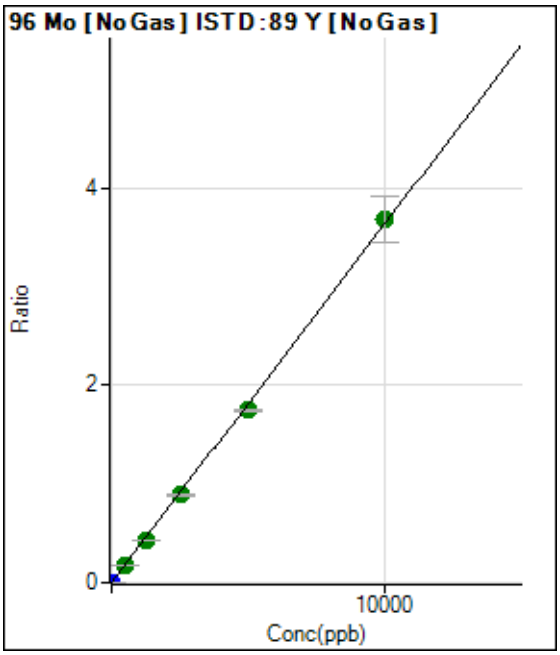



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 487.79 | 0.0000 | P | 8.1 |
| 2 | ☐ | 5.000 | 4.977 | 38719.42 | 0.0017 | P | 0.8 |
| 3 | ☐ | 500.000 | 476.826 | 3659632.65 | 0.1580 | A | 0.3 |
| 4 | ☐ | 1250.000 | 1159.377 | 9028010.01 | 0.3840 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2455.229 | 18545895.84 | 0.8132 | A | 1.2 |
| 6 | ☐ | 5000.000 | 4793.503 | 35964888.91 | 1.5877 | A | 1.1 |
| 7 | ☐ | 10000.000 | 10126.928 | 70172380.07 | 3.3542 | A | 12.1 |
| 8 | ☐ | | | 35595.51 | 0.0017 | P | 1.3 |

y = 3.3121E-004 * x + 2.1161E-005
R = 0.9997
DL = 0.01557
BEC = 0.06389

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 658.91 | 0.0000 | P | 4.6 |
| 2 | ☐ | 5.000 | 5.025 | 42994.19 | 0.0019 | P | 2.4 |
| 3 | ☐ | 500.000 | 474.321 | 3992596.54 | 0.1723 | A | 0.9 |
| 4 | ☐ | 1250.000 | 1159.475 | 9903454.99 | 0.4212 | A | 0.4 |
| 5 | ☐ | 2500.000 | 2442.013 | 20231734.14 | 0.8872 | A | 1.7 |
| 6 | ☐ | 5000.000 | 4810.535 | 39584709.96 | 1.7476 | A | 0.6 |
| 7 | ☐ | 10000.000 | 10121.829 | 76898929.97 | 3.6770 | A | 12.6 |
| 8 | ☐ | | | 40858.75 | 0.0019 | P | 1.3 |

y = 3.6328E-004 * x + 2.8577E-005
R = 0.9997
DL = 0.01077
BEC = 0.07867

Weight: <None>
Min Conc: 0

Reviewed By:kareem
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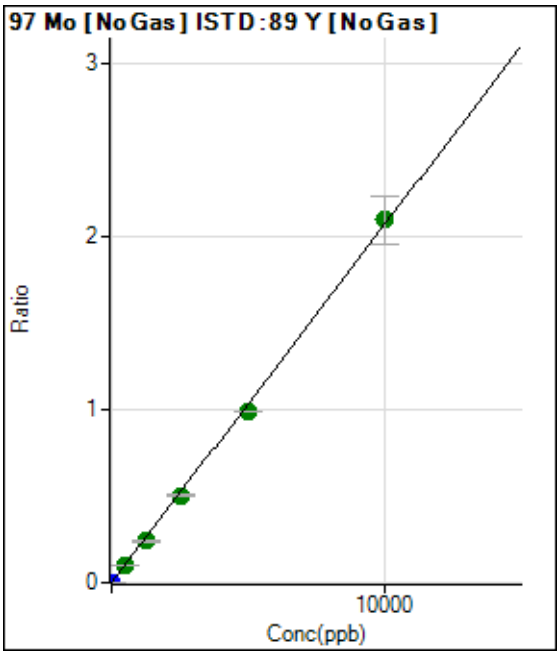
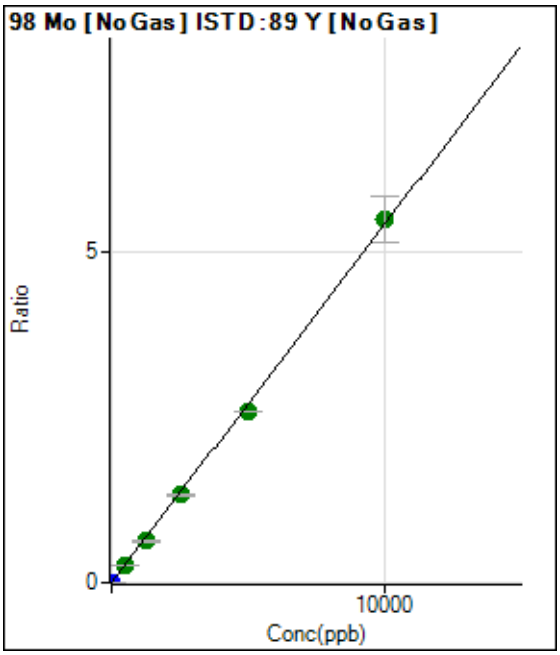



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 384.46 | 0.0000 | P | 9.2 |
| 2 | ☐ | 5.000 | 4.941 | 24054.27 | 0.0010 | P | 1.2 |
| 3 | ☐ | 500.000 | 470.860 | 2253717.26 | 0.0973 | A | 0.7 |
| 4 | ☐ | 1250.000 | 1159.473 | 5630831.51 | 0.2395 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2438.833 | 11488930.66 | 0.5038 | A | 0.9 |
| 6 | ☐ | 5000.000 | 4782.404 | 22376743.55 | 0.9879 | A | 0.2 |
| 7 | ☐ | 10000.000 | 10136.863 | 43767007.68 | 2.0939 | A | 13.3 |
| 8 | ☐ | | | 21722.64 | 0.0010 | P | 1.3 |

y = 2.0656E-004 * x + 1.6670E-005
R = 0.9996
DL = 0.02229
BEC = 0.0807

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 863.37 | 0.0000 | P | 3.7 |
| 2 | ☐ | 5.000 | 4.963 | 63060.20 | 0.0027 | P | 1.8 |
| 3 | ☐ | 500.000 | 469.980 | 5885463.66 | 0.2540 | A | 0.8 |
| 4 | ☐ | 1250.000 | 1162.424 | 14770104.22 | 0.6283 | A | 1.9 |
| 5 | ☐ | 2500.000 | 2450.725 | 30207717.33 | 1.3246 | A | 0.9 |
| 6 | ☐ | 5000.000 | 4786.957 | 58604015.24 | 2.5872 | A | 0.6 |
| 7 | ☐ | 10000.000 | 10131.288 | 114503108.2 | 5.4756 | A | 12.7 |
| 8 | ☐ | | | 55995.81 | 0.0027 | P | 1.3 |

y = 5.4046E-004 * x + 3.7441E-005
R = 0.9996
DL = 0.007765
BEC = 0.06927

Weight: <None>
Min Conc: 0

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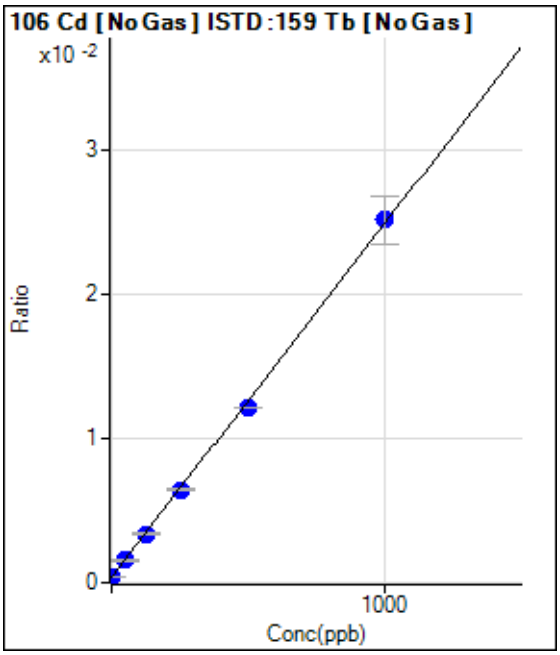
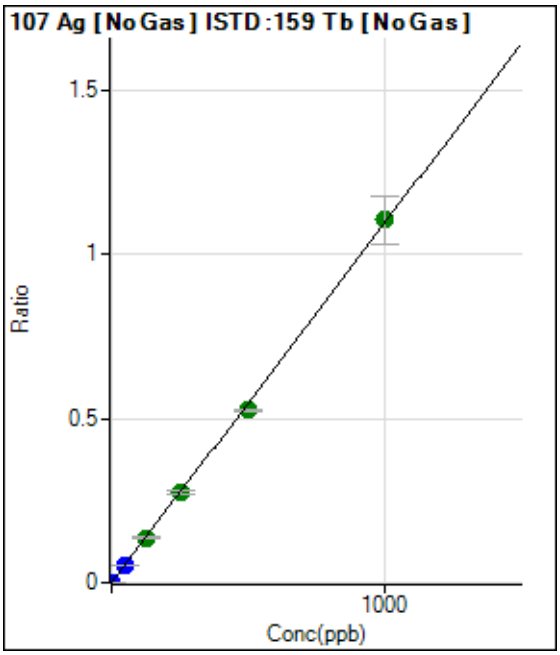



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6577.18 | 0.0004 | P | 1.8 |
| 2 | ☐ | 1.000 | 1.031 | 6926.25 | 0.0004 | P | 1.6 |
| 3 | ☐ | 50.000 | 47.631 | 27007.59 | 0.0016 | P | 2.3 |
| 4 | ☐ | 125.000 | 121.352 | 57841.71 | 0.0034 | P | 3.3 |
| 5 | ☐ | 250.000 | 247.776 | 111146.46 | 0.0065 | P | 2.3 |
| 6 | ☐ | 500.000 | 480.016 | 207488.85 | 0.0122 | P | 0.6 |
| 7 | ☐ | 1000.000 | 1011.123 | 395713.00 | 0.0252 | P | 13.1 |
| 8 | ☐ | | | 6154.76 | 0.0004 | P | 0.8 |

y = 2.4519E-005 * x + 3.8276E-004
R = 0.9997
DL = 0.865
BEC = 15.61

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 166.67 | 0.0000 | P | 12.4 |
| 2 | ☐ | 1.000 | 0.996 | 18631.58 | 0.0011 | P | 5.2 |
| 3 | ☐ | 50.000 | 47.766 | 909967.18 | 0.0522 | P | 1.7 |
| 4 | ☐ | 125.000 | 125.232 | 2359073.61 | 0.1370 | A | 2.6 |
| 5 | ☐ | 250.000 | 250.482 | 4713563.16 | 0.2739 | A | 3.3 |
| 6 | ☐ | 500.000 | 480.641 | 8973924.24 | 0.5256 | A | 0.8 |
| 7 | ☐ | 1000.000 | 1009.642 | 17350451.68 | 1.1040 | A | 13.4 |
| 8 | ☐ | | | 2984.80 | 0.0002 | P | 5.8 |

y = 0.0011 * x + 9.6972E-006
R = 0.9997
DL = 0.003293
BEC = 0.008868

Weight: <None>
Min Conc: 0

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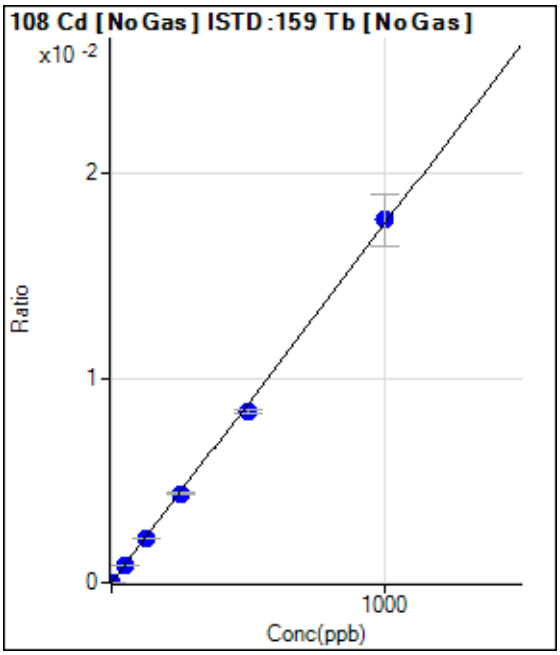
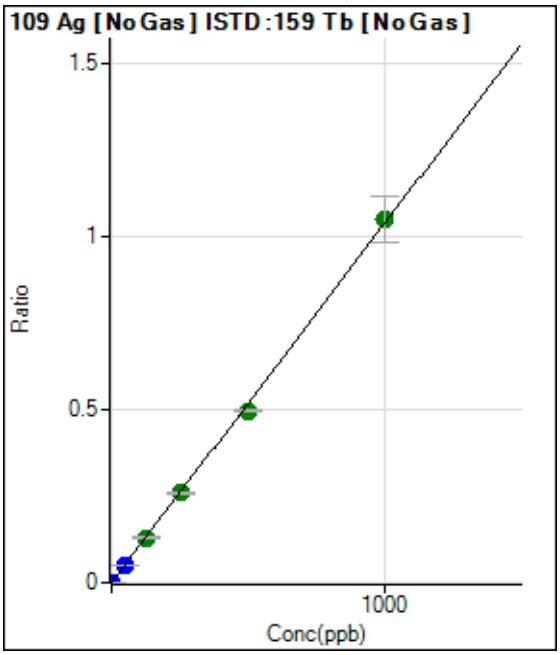



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 53.33 | 0.0000 | P | 1.3 |
| 2 | ☐ | 1.000 | 1.022 | 356.68 | 0.0000 | P | 2.4 |
| 3 | ☐ | 50.000 | 48.663 | 14907.05 | 0.0009 | P | 2.1 |
| 4 | ☐ | 125.000 | 122.605 | 37061.93 | 0.0022 | P | 3.0 |
| 5 | ☐ | 250.000 | 247.644 | 74746.76 | 0.0043 | P | 2.0 |
| 6 | ☐ | 500.000 | 477.966 | 143054.60 | 0.0084 | P | 1.7 |
| 7 | ☐ | 1000.000 | 1011.972 | 278565.51 | 0.0177 | P | 14.2 |
| 8 | ☐ | | | 238.89 | 0.0000 | P | 13.1 |

y = 1.7524E-005 * x + 3.1034E-006
R = 0.9996
DL = 0.006766
BEC = 0.1771

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 55.56 | 0.0000 | P | 13.2 |
| 2 | ☐ | 1.000 | 1.018 | 17985.13 | 0.0011 | P | 1.3 |
| 3 | ☐ | 50.000 | 48.015 | 867554.66 | 0.0498 | P | 2.2 |
| 4 | ☐ | 125.000 | 125.109 | 2235121.37 | 0.1298 | A | 3.8 |
| 5 | ☐ | 250.000 | 250.925 | 4479849.79 | 0.2603 | A | 2.1 |
| 6 | ☐ | 500.000 | 478.954 | 8482645.43 | 0.4968 | A | 1.5 |
| 7 | ☐ | 1000.000 | 1010.378 | 16482051.42 | 1.0481 | A | 12.6 |
| 8 | ☐ | | | 2774.76 | 0.0002 | P | 6.6 |

y = 0.0010 * x + 3.2309E-006
R = 0.9997
DL = 0.001238
BEC = 0.003115

Weight: <None>
Min Conc: 0

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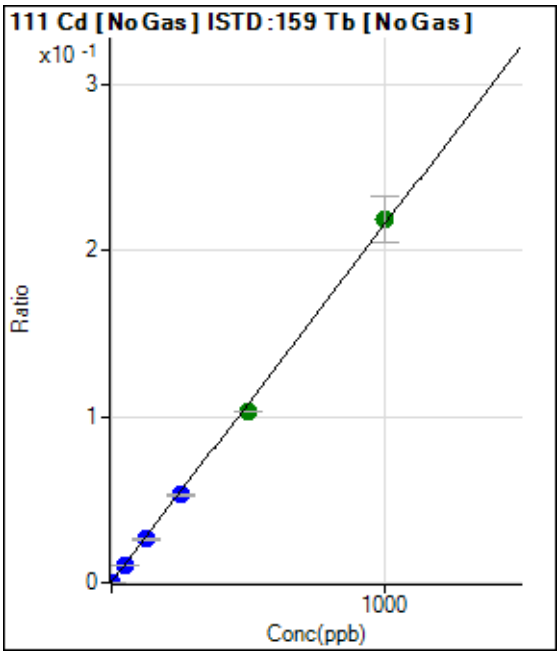
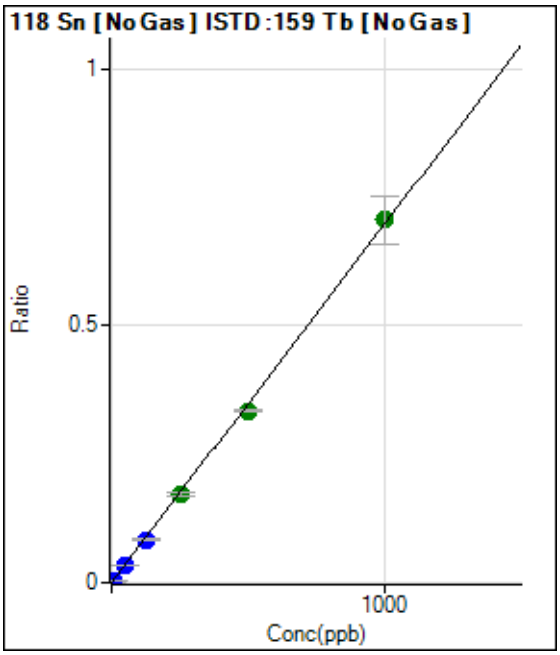



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4637.81 | 0.0003 | P | 2.3 |
| 2 | ☐ | 1.000 | 1.080 | 8528.19 | 0.0005 | P | 1.5 |
| 3 | ☐ | 50.000 | 47.408 | 182524.49 | 0.0105 | P | 1.0 |
| 4 | ☐ | 125.000 | 119.897 | 449319.16 | 0.0261 | P | 3.6 |
| 5 | ☐ | 250.000 | 243.816 | 908234.54 | 0.0528 | P | 2.3 |
| 6 | ☐ | 500.000 | 477.686 | 1760824.89 | 0.1031 | A | 0.4 |
| 7 | ☐ | 1000.000 | 1013.470 | 3436130.79 | 0.2185 | A | 12.6 |
| 8 | ☐ | | | 4817.80 | 0.0003 | P | 1.8 |

y = 2.1534E-004 * x + 2.6990E-004
R = 0.9996
DL = 0.08518
BEC = 1.253

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1580.11 | 0.0001 | P | 4.7 |
| 2 | ☐ | 5.000 | 5.135 | 62367.89 | 0.0037 | P | 2.4 |
| 3 | ☐ | 50.000 | 47.068 | 573632.99 | 0.0329 | P | 1.5 |
| 4 | ☐ | 125.000 | 118.842 | 1429754.15 | 0.0830 | P | 3.3 |
| 5 | ☐ | 250.000 | 246.433 | 2960657.42 | 0.1720 | A | 2.6 |
| 6 | ☐ | 500.000 | 478.852 | 5706184.22 | 0.3342 | A | 1.2 |
| 7 | ☐ | 1000.000 | 1012.381 | 11104881.64 | 0.7064 | A | 13.1 |
| 8 | ☐ | | | 3367.11 | 0.0002 | P | 3.4 |

y = 6.9771E-004 * x + 9.1964E-005
R = 0.9997
DL = 0.01848
BEC = 0.1318

Weight: <None>
Min Conc: 0

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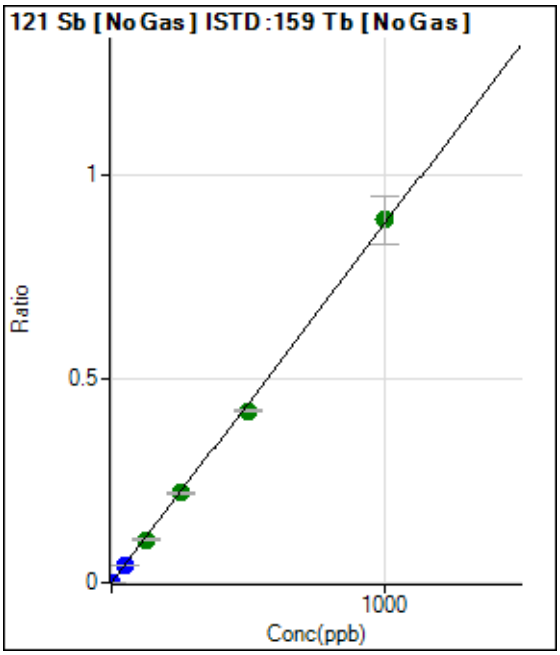
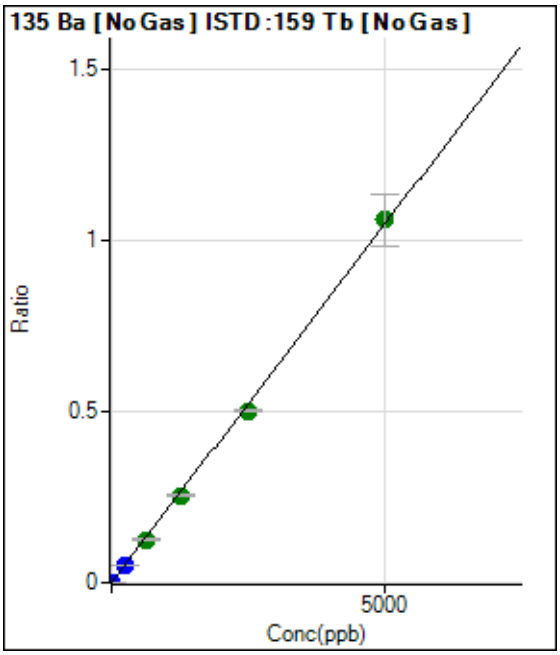



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 66.67 | 0.0000 | P | 40.6 |
| 2 | ☐ | 2.000 | 2.081 | 31174.42 | 0.0018 | P | 4.0 |
| 3 | ☐ | 50.000 | 46.631 | 715865.76 | 0.0411 | P | 1.7 |
| 4 | ☐ | 125.000 | 119.591 | 1815450.67 | 0.1054 | A | 2.6 |
| 5 | ☐ | 250.000 | 249.544 | 3784910.22 | 0.2199 | A | 2.3 |
| 6 | ☐ | 500.000 | 479.171 | 7209818.29 | 0.4223 | A | 0.6 |
| 7 | ☐ | 1000.000 | 1011.373 | 14008858.68 | 0.8913 | A | 13.2 |
| 8 | ☐ | | | 10514.13 | 0.0007 | P | 2.0 |

y = 8.8123E-004 * x + 3.8927E-006
R = 0.9997
DL = 0.005374
BEC = 0.004417

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 497.79 | 0.0000 | P | 4.3 |
| 2 | ☐ | 10.000 | 10.048 | 36171.58 | 0.0021 | P | 2.8 |
| 3 | ☐ | 250.000 | 231.406 | 844024.97 | 0.0485 | P | 1.0 |
| 4 | ☐ | 625.000 | 599.719 | 2161937.75 | 0.1255 | A | 3.5 |
| 5 | ☐ | 1250.000 | 1216.619 | 4382442.16 | 0.2546 | A | 1.8 |
| 6 | ☐ | 2500.000 | 2392.048 | 8546881.33 | 0.5006 | A | 1.0 |
| 7 | ☐ | 5000.000 | 5066.411 | 16648381.42 | 1.0602 | A | 14.4 |
| 8 | ☐ | | | 6340.42 | 0.0004 | P | 2.9 |

y = 2.0925E-004 * x + 2.8976E-005
R = 0.9996
DL = 0.01803
BEC = 0.1385

Weight: <None>
Min Conc: 0

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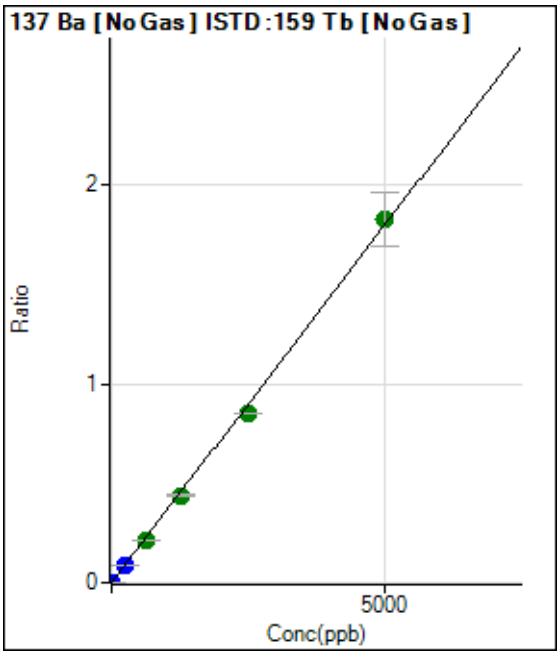
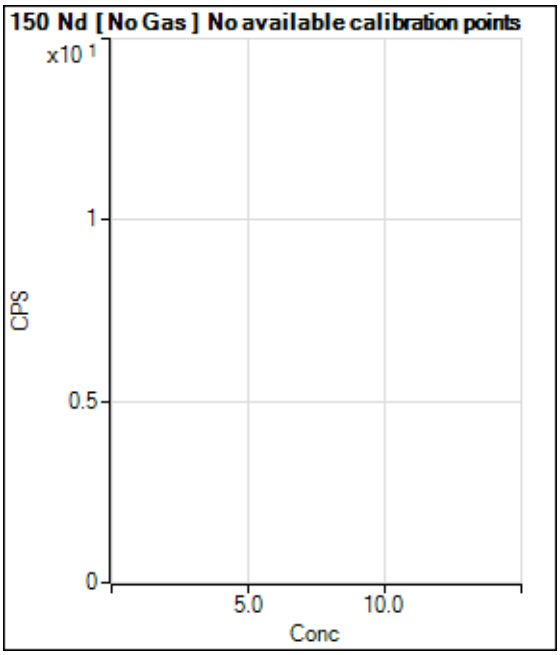



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 764.48 | 0.0000 | P | 6.4 |
| 2 | ☐ | 10.000 | 10.175 | 62747.14 | 0.0037 | P | 1.8 |
| 3 | ☐ | 250.000 | 233.275 | 1459240.38 | 0.0838 | P | 1.6 |
| 4 | ☐ | 625.000 | 595.207 | 3681607.83 | 0.2137 | A | 1.9 |
| 5 | ☐ | 1250.000 | 1217.661 | 7522475.58 | 0.4371 | A | 2.7 |
| 6 | ☐ | 2500.000 | 2367.858 | 14511692.56 | 0.8500 | A | 0.5 |
| 7 | ☐ | 5000.000 | 5078.716 | 28612529.85 | 1.8230 | A | 14.9 |
| 8 | ☐ | | | 11334.85 | 0.0007 | P | 1.3 |

y = 3.5894E-004 * x + 4.4506E-005
R = 0.9995
DL = 0.02374
BEC = 0.124

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 13.34 | | P | 43.3 |
| 2 | ☐ | | | 21.11 | | P | 59.8 |
| 3 | ☐ | | | 77.78 | | P | 21.6 |
| 4 | ☐ | | | 140.00 | | P | 8.6 |
| 5 | ☐ | | | 294.45 | | P | 6.5 |
| 6 | ☐ | | | 618.91 | | P | 2.8 |
| 7 | ☐ | | | 1097.84 | | P | 5.3 |
| 8 | ☐ | | | 304.45 | | P | 9.9 |

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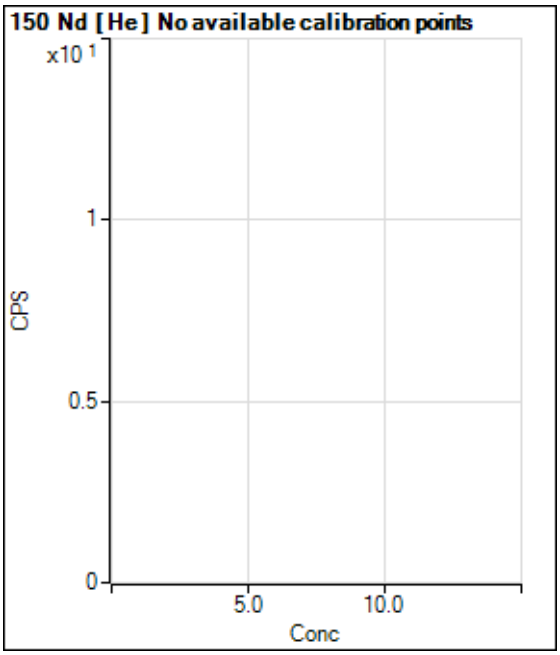
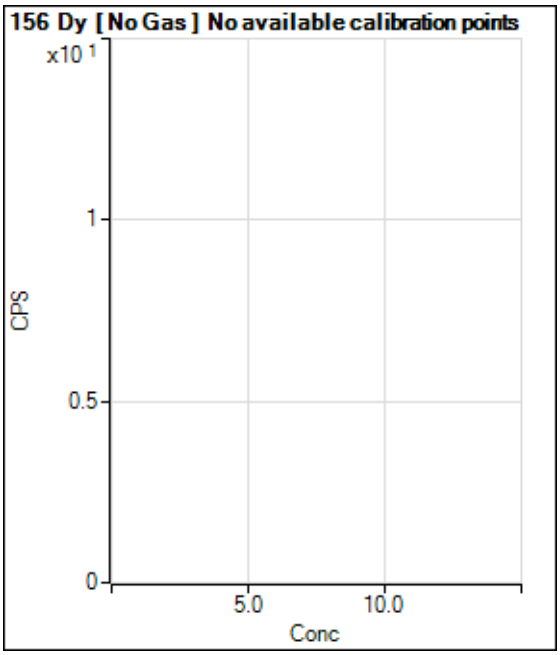



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4.44 | | P | 114.6 |
| 2 | ☐ | | | 3.33 | | P | 100.1 |
| 3 | ☐ | | | 3.33 | | P | 100.1 |
| 4 | ☐ | | | 3.33 | | P | 0.0 |
| 5 | ☐ | | | 13.33 | | P | 66.2 |
| 6 | ☐ | | | 27.78 | | P | 13.9 |
| 7 | ☐ | | | 44.44 | | P | 11.5 |
| 8 | ☐ | | | 56.67 | | P | 11.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 293.34 | | P | 11.4 |
| 2 | ☐ | | | 241.11 | | P | 13.9 |
| 3 | ☐ | | | 290.00 | | P | 13.9 |
| 4 | ☐ | | | 280.00 | | P | 19.2 |
| 5 | ☐ | | | 273.34 | | P | 16.8 |
| 6 | ☐ | | | 325.56 | | P | 2.1 |
| 7 | ☐ | | | 436.68 | | P | 18.0 |
| 8 | ☐ | | | 641.13 | | P | 19.3 |

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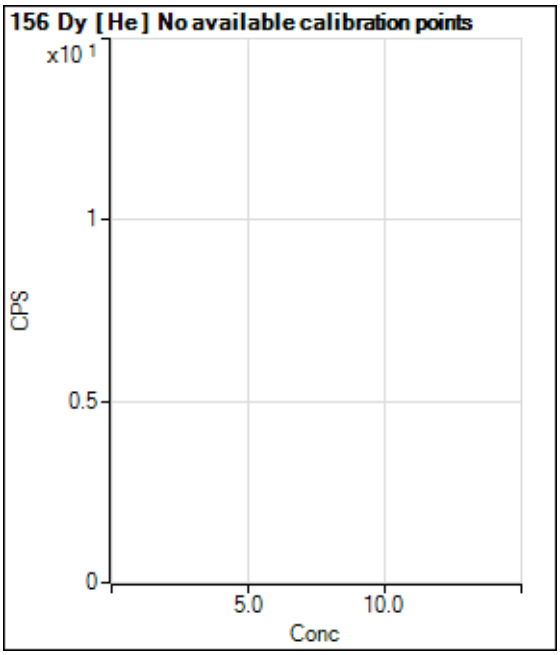
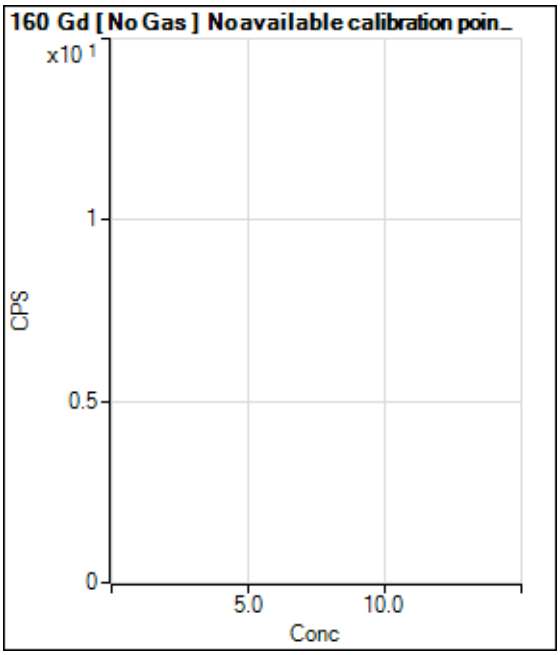



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 11.11 | | P | 34.6 |
| 2 | ☐ | | | 7.78 | | P | 49.5 |
| 3 | ☐ | | | 7.78 | | P | 24.7 |
| 4 | ☐ | | | 10.00 | | P | 100.0 |
| 5 | ☐ | | | 13.33 | | P | 50.0 |
| 6 | ☐ | | | 24.44 | | P | 39.4 |
| 7 | ☐ | | | 48.89 | | P | 30.7 |
| 8 | ☐ | | | 163.34 | | P | 25.6 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 68.89 | | P | 10.1 |
| 2 | ☐ | | | 90.00 | | P | 7.4 |
| 3 | ☐ | | | 80.00 | | P | 36.1 |
| 4 | ☐ | | | 88.89 | | P | 14.2 |
| 5 | ☐ | | | 106.67 | | P | 6.3 |
| 6 | ☐ | | | 145.56 | | P | 10.8 |
| 7 | ☐ | | | 201.11 | | P | 9.1 |
| 8 | ☐ | | | 508.90 | | P | 1.4 |

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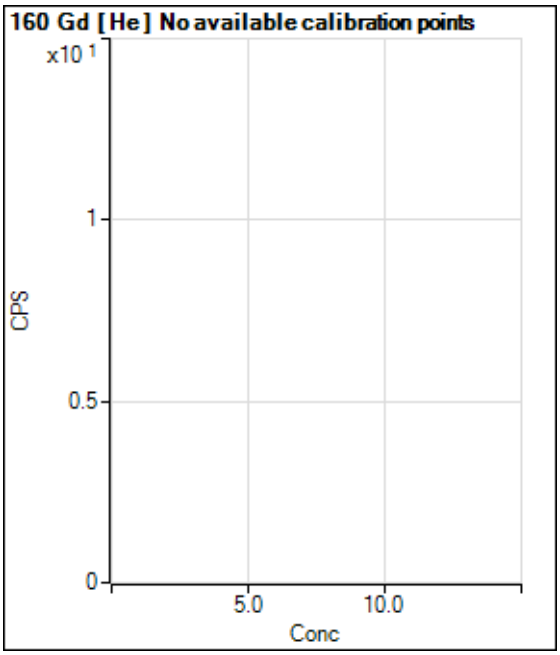
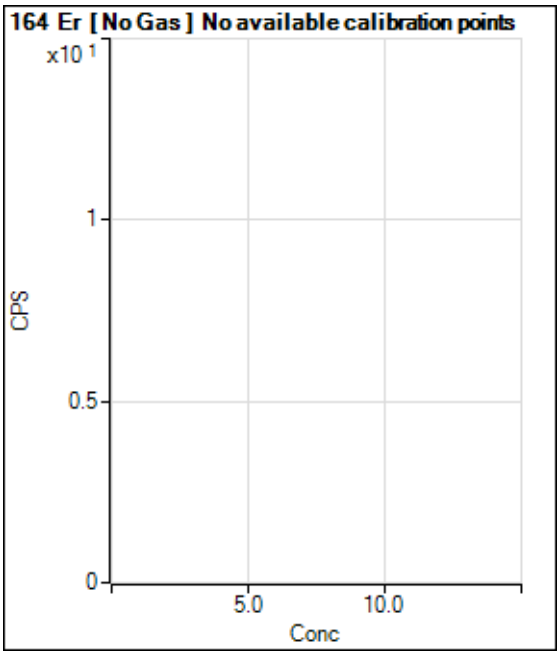



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 20.00 | | P | 16.7 |
| 2 | ☐ | | | 10.00 | | P | 33.3 |
| 3 | ☐ | | | 21.11 | | P | 32.9 |
| 4 | ☐ | | | 28.89 | | P | 17.6 |
| 5 | ☐ | | | 25.56 | | P | 7.5 |
| 6 | ☐ | | | 42.22 | | P | 9.1 |
| 7 | ☐ | | | 58.89 | | P | 23.6 |
| 8 | ☐ | | | 186.67 | | P | 7.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 98.89 | | P | 25.3 |
| 2 | ☐ | | | 75.55 | | P | 14.2 |
| 3 | ☐ | | | 100.00 | | P | 10.0 |
| 4 | ☐ | | | 93.34 | | P | 12.9 |
| 5 | ☐ | | | 128.89 | | P | 12.2 |
| 6 | ☐ | | | 151.11 | | P | 16.3 |
| 7 | ☐ | | | 221.12 | | P | 7.7 |
| 8 | ☐ | | | 552.24 | | P | 13.1 |

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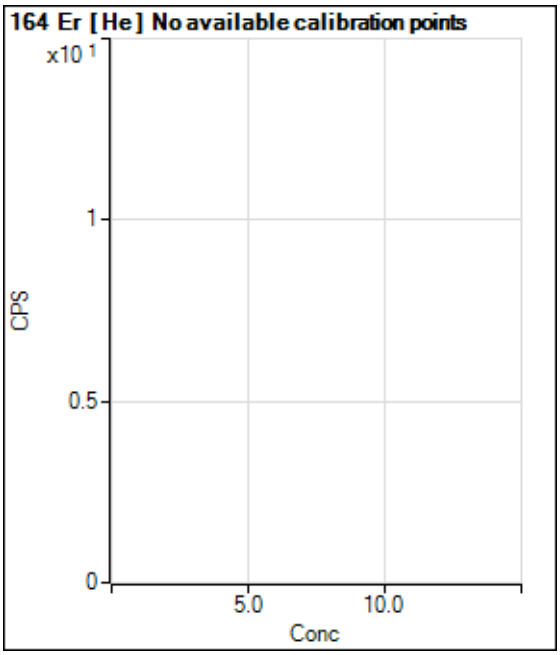
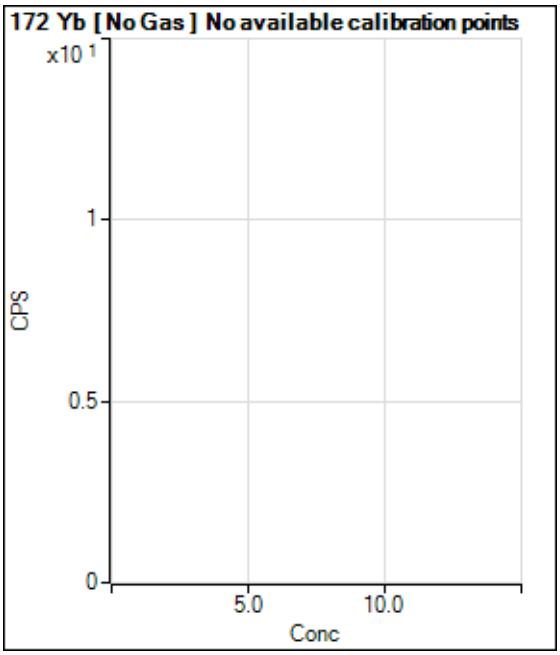



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 31.11 | | P | 50.6 |
| 2 | ☐ | | | 21.11 | | P | 36.5 |
| 3 | ☐ | | | 23.33 | | P | 74.2 |
| 4 | ☐ | | | 25.55 | | P | 15.1 |
| 5 | ☐ | | | 40.00 | | P | 43.3 |
| 6 | ☐ | | | 50.00 | | P | 20.0 |
| 7 | ☐ | | | 77.78 | | P | 13.8 |
| 8 | ☐ | | | 183.34 | | P | 26.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 105.56 | | P | 17.4 |
| 2 | ☐ | | | 95.55 | | P | 7.3 |
| 3 | ☐ | | | 103.34 | | P | 16.8 |
| 4 | ☐ | | | 117.78 | | P | 17.3 |
| 5 | ☐ | | | 131.11 | | P | 16.5 |
| 6 | ☐ | | | 157.78 | | P | 8.5 |
| 7 | ☐ | | | 241.12 | | P | 11.3 |
| 8 | ☐ | | | 673.36 | | P | 1.7 |

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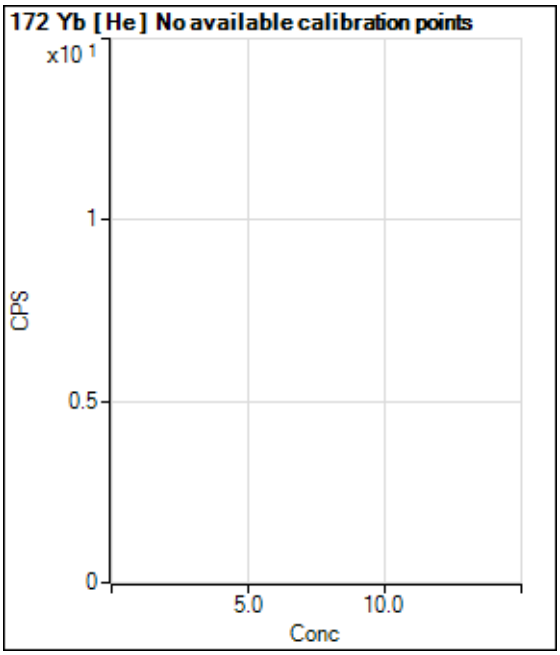
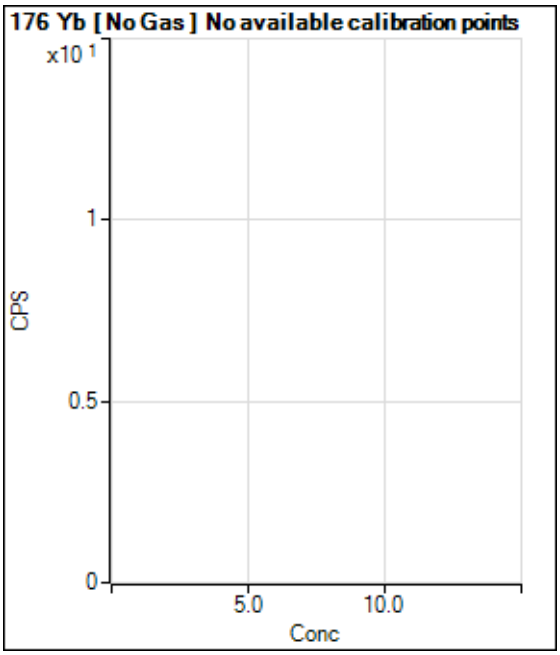



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 28.89 | | P | 6.7 |
| 2 | ☐ | | | 26.67 | | P | 43.3 |
| 3 | ☐ | | | 36.67 | | P | 18.2 |
| 4 | ☐ | | | 44.44 | | P | 21.7 |
| 5 | ☐ | | | 38.89 | | P | 27.5 |
| 6 | ☐ | | | 67.78 | | P | 7.5 |
| 7 | ☐ | | | 103.34 | | P | 14.1 |
| 8 | ☐ | | | 284.45 | | P | 9.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1592.34 | | P | 5.0 |
| 2 | ☐ | | | 1627.90 | | P | 8.4 |
| 3 | ☐ | | | 4885.39 | | P | 2.8 |
| 4 | ☐ | | | 9863.78 | | P | 2.2 |
| 5 | ☐ | | | 18577.61 | | P | 1.6 |
| 6 | ☐ | | | 34333.45 | | P | 1.3 |
| 7 | ☐ | | | 66367.89 | | P | 0.4 |
| 8 | ☐ | | | 1963.50 | | P | 3.1 |

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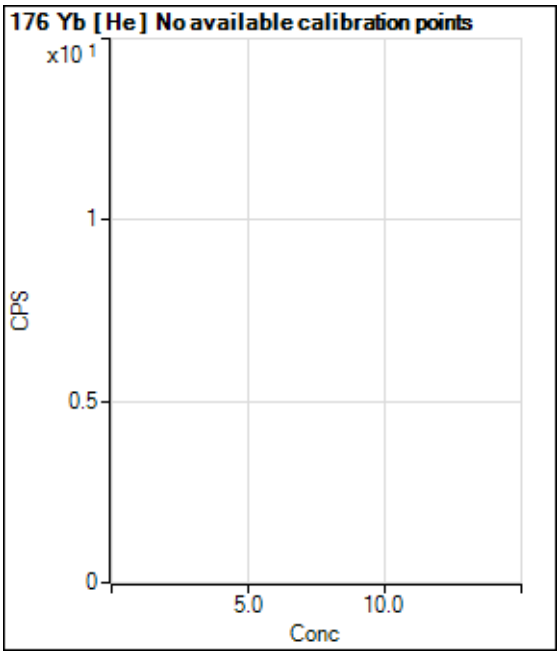
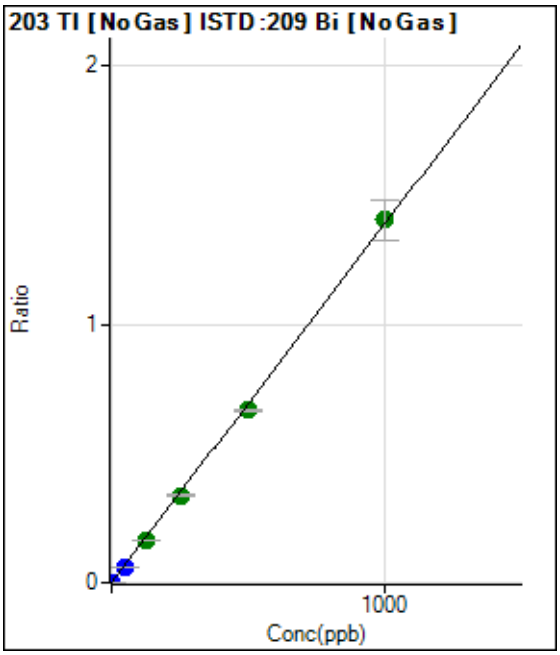



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 294.45 | | P | 4.3 |
| 2 | ☐ | | | 268.90 | | P | 3.8 |
| 3 | ☐ | | | 1291.18 | | P | 4.7 |
| 4 | ☐ | | | 2902.57 | | P | 5.9 |
| 5 | ☐ | | | 5769.09 | | P | 2.3 |
| 6 | ☐ | | | 10845.69 | | P | 0.4 |
| 7 | ☐ | | | 20909.93 | | P | 0.8 |
| 8 | ☐ | | | 403.34 | | P | 2.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 490.01 | 0.0000 | P | 3.9 |
| 2 | ☐ | 1.000 | 0.985 | 15524.92 | 0.0014 | P | 1.6 |
| 3 | ☐ | 50.000 | 45.136 | 703638.48 | 0.0627 | P | 0.4 |
| 4 | ☐ | 125.000 | 117.047 | 1800007.59 | 0.1625 | A | 0.3 |
| 5 | ☐ | 250.000 | 242.460 | 3636911.16 | 0.3366 | A | 1.7 |
| 6 | ☐ | 500.000 | 481.776 | 7041877.33 | 0.6689 | A | 0.8 |
| 7 | ☐ | 1000.000 | 1012.234 | 13565214.10 | 1.4053 | A | 11.3 |
| 8 | ☐ | | | 1373.42 | 0.0002 | P | 5.2 |

y = 0.0014 * x + 4.4065E-005
R = 0.9997
DL = 0.003733
BEC = 0.03174

Weight: <None>
Min Conc: 0

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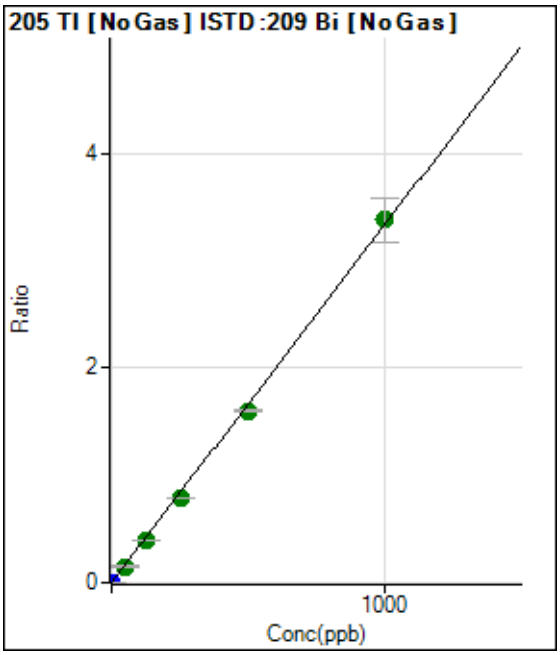
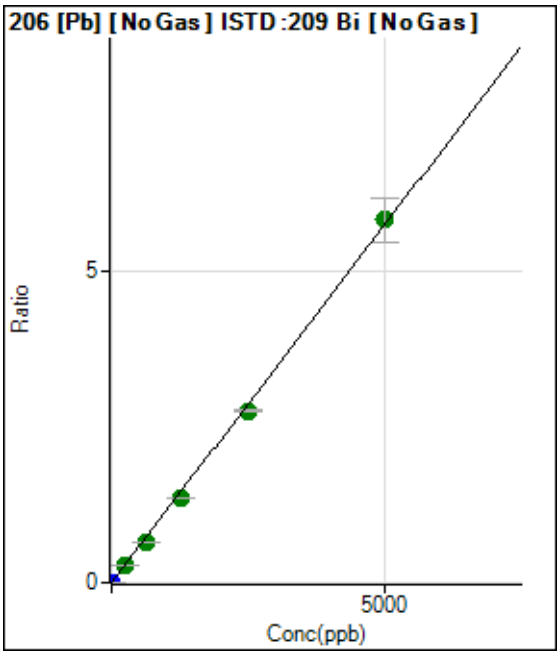



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1178.95 | 0.0001 | P | 4.1 |
| 2 | ☐ | 1.000 | 0.980 | 37101.85 | 0.0034 | P | 1.1 |
| 3 | ☐ | 50.000 | 45.640 | 1708752.72 | 0.1523 | A | 0.6 |
| 4 | ☐ | 125.000 | 117.041 | 4322237.43 | 0.3903 | A | 2.2 |
| 5 | ☐ | 250.000 | 237.157 | 8544196.68 | 0.7908 | A | 0.7 |
| 6 | ☐ | 500.000 | 479.717 | 16840142.11 | 1.5996 | A | 1.3 |
| 7 | ☐ | 1000.000 | 1014.565 | 32641966.46 | 3.3829 | A | 12.0 |
| 8 | ☐ | | | 3261.56 | 0.0004 | P | 7.6 |

y = 0.0033 * x + 1.0600E-004
R = 0.9996
DL = 0.00395
BEC = 0.03179

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1215.62 | 0.0001 | P | 6.1 |
| 2 | ☐ | 1.000 | 0.963 | 13351.40 | 0.0012 | P | 0.9 |
| 3 | ☐ | 250.000 | 234.725 | 3019714.44 | 0.2691 | A | 1.5 |
| 4 | ☐ | 625.000 | 573.348 | 7277684.20 | 0.6572 | A | 1.5 |
| 5 | ☐ | 1250.000 | 1185.419 | 14679267.42 | 1.3587 | A | 0.7 |
| 6 | ☐ | 2500.000 | 2401.329 | 28974948.46 | 2.7522 | A | 1.1 |
| 7 | ☐ | 5000.000 | 5072.701 | 56105316.94 | 5.8138 | A | 11.9 |
| 8 | ☐ | | | 10773.48 | 0.0012 | P | 5.3 |

y = 0.0011 * x + 1.0932E-004
R = 0.9996
DL = 0.01754
BEC = 0.09539

Weight: <None>
Min Conc: 0

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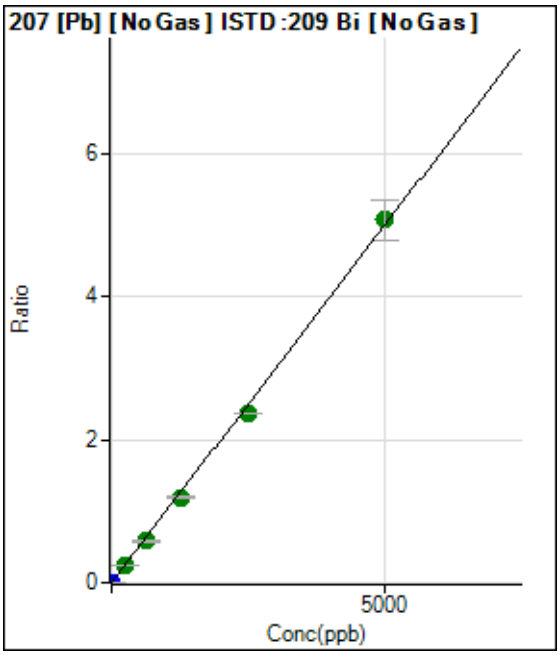
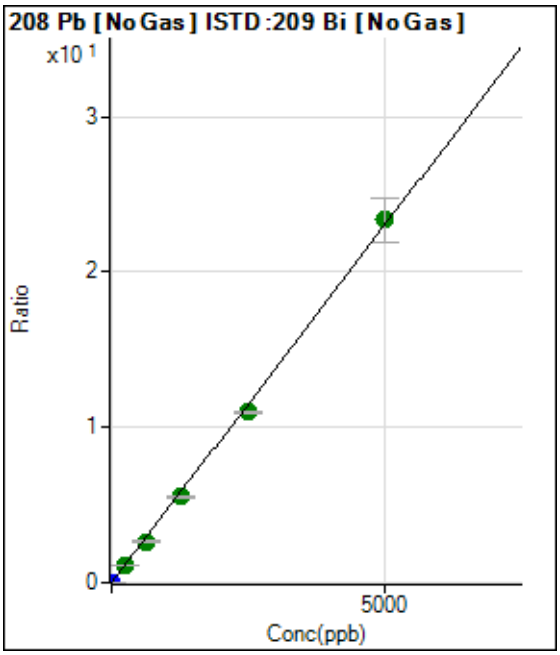



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1080.06 | 0.0001 | P | 9.0 |
| 2 | ☐ | 1.000 | 0.960 | 11608.62 | 0.0011 | P | 0.8 |
| 3 | ☐ | 250.000 | 230.606 | 2583561.82 | 0.2303 | A | 1.5 |
| 4 | ☐ | 625.000 | 579.099 | 6401518.93 | 0.5781 | A | 0.8 |
| 5 | ☐ | 1250.000 | 1195.976 | 12897417.31 | 1.1938 | A | 0.7 |
| 6 | ☐ | 2500.000 | 2378.512 | 24993906.85 | 2.3740 | A | 0.3 |
| 7 | ☐ | 5000.000 | 5080.958 | 48954045.94 | 5.0712 | A | 11.4 |
| 8 | ☐ | | | 9215.60 | 0.0010 | P | 4.9 |

y = 9.9806E-004 * x + 9.7095E-005
R = 0.9995
DL = 0.02638
BEC = 0.09728

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5026.00 | 0.0005 | P | 1.9 |
| 2 | ☐ | 1.000 | 0.959 | 53492.59 | 0.0049 | P | 0.8 |
| 3 | ☐ | 250.000 | 230.309 | 11887692.96 | 1.0595 | A | 1.2 |
| 4 | ☐ | 625.000 | 578.512 | 29462660.25 | 2.6606 | A | 1.0 |
| 5 | ☐ | 1250.000 | 1202.637 | 59749900.91 | 5.5304 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2382.490 | 115340365.5 | 10.9556 | A | 0.6 |
| 7 | ☐ | 5000.000 | 5077.391 | 225271316.6 | 23.3472 | A | 12.0 |
| 8 | ☐ | | | 42676.96 | 0.0047 | P | 5.4 |

y = 0.0046 * x + 4.5194E-004
R = 0.9995
DL = 0.005703
BEC = 0.09829

Weight: <None>
Min Conc: 0

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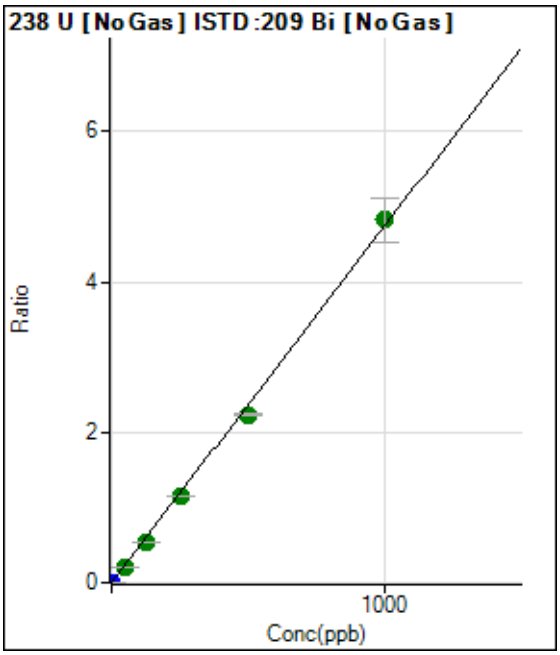
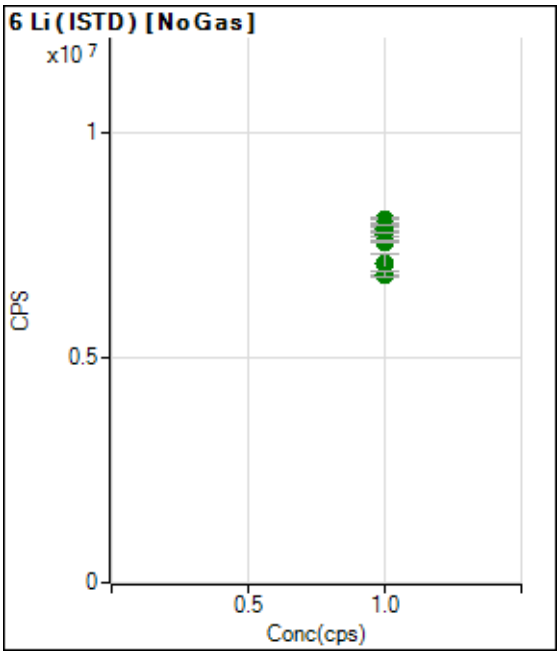



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 425.57 | 0.0000 | P | 7.7 |
| 2 | ☐ | 1.000 | 0.938 | 49336.41 | 0.0045 | P | 1.6 |
| 3 | ☐ | 50.000 | 45.347 | 2412296.23 | 0.2150 | A | 1.8 |
| 4 | ☐ | 125.000 | 114.447 | 6007435.74 | 0.5425 | A | 1.8 |
| 5 | ☐ | 250.000 | 241.627 | 12374318.15 | 1.1454 | A | 0.7 |
| 6 | ☐ | 500.000 | 471.558 | 23532798.82 | 2.2352 | A | 0.7 |
| 7 | ☐ | 1000.000 | 1017.866 | 46537394.30 | 4.8247 | A | 12.4 |
| 8 | ☐ | | | 2202.48 | 0.0002 | P | 17.3 |

y = 0.0047 * x + 3.8260E-005
R = 0.9994
DL = 0.001865
BEC = 0.008072

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 8068135.09 | | A | 1.6 |
| 2 | ☐ | 1.000 | | 7996189.34 | | A | 1.9 |
| 3 | ☐ | 1.000 | | 7960061.72 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 7871627.78 | | A | 1.6 |
| 5 | ☐ | 1.000 | | 7749319.94 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 7576392.34 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 7084173.29 | | A | 7.0 |
| 8 | ☐ | 1.000 | | 6862584.06 | | A | 1.7 |

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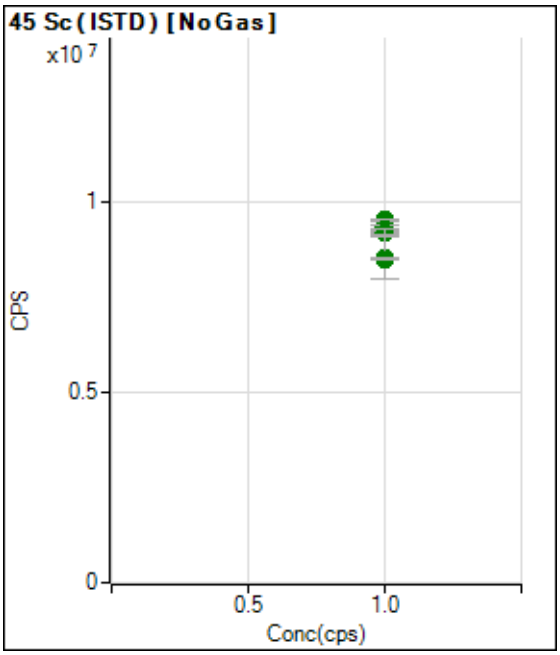
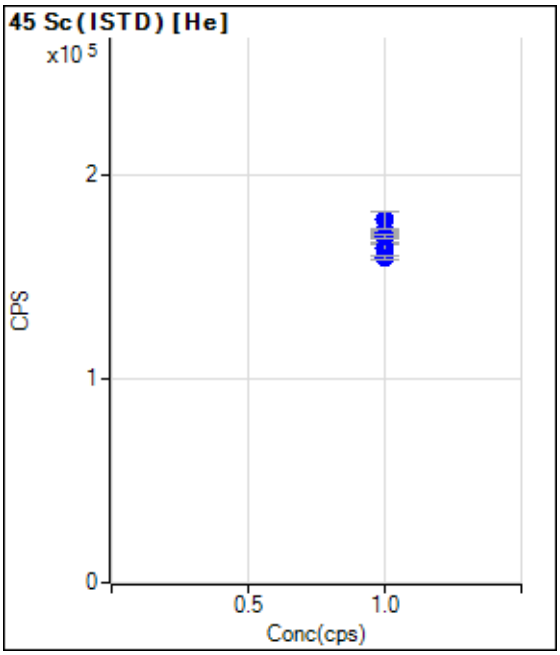



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 9475628.68 | | A | 1.6 |
| 2 | ☐ | 1.000 | | 9324203.47 | | A | 1.7 |
| 3 | ☐ | 1.000 | | 9358616.39 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 9531234.16 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 9282548.40 | | A | 2.0 |
| 6 | ☐ | 1.000 | | 9218058.96 | | A | 1.4 |
| 7 | ☐ | 1.000 | | 8519738.35 | | A | 12.9 |
| 8 | ☐ | 1.000 | | 8498597.44 | | A | 0.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 170617.17 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 166884.92 | | P | 0.3 |
| 3 | ☐ | 1.000 | | 172507.76 | | P | 0.8 |
| 4 | ☐ | 1.000 | | 171955.39 | | P | 0.9 |
| 5 | ☐ | 1.000 | | 164080.01 | | P | 6.5 |
| 6 | ☐ | 1.000 | | 169802.50 | | P | 1.4 |
| 7 | ☐ | 1.000 | | 178212.80 | | P | 4.8 |
| 8 | ☐ | 1.000 | | 159480.53 | | P | 1.4 |

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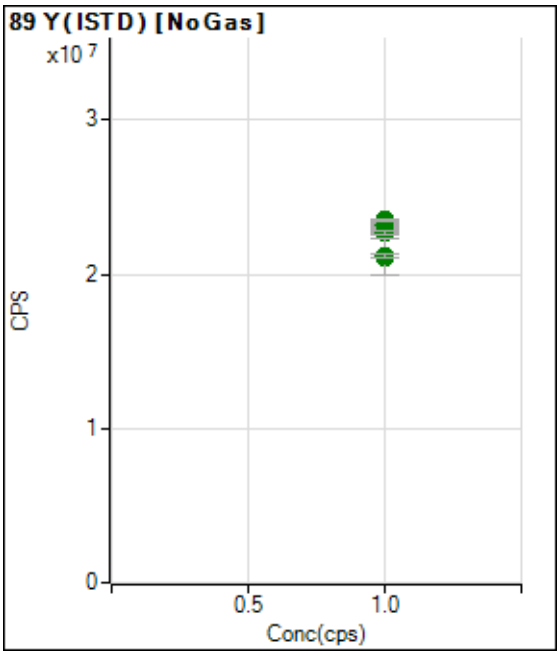
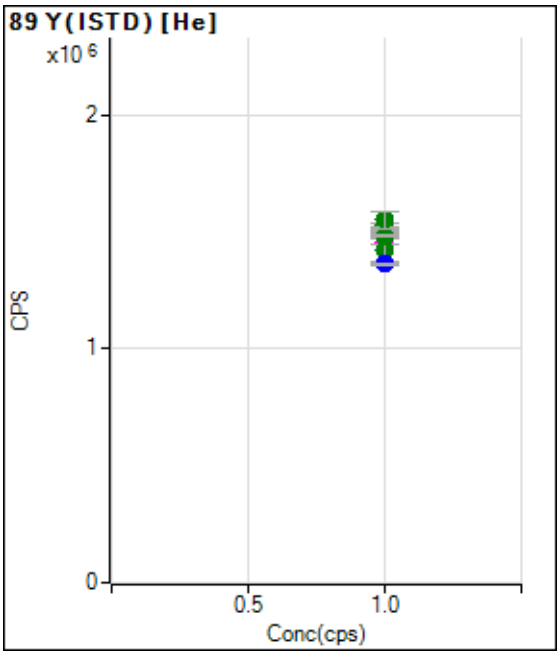



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 23058398.55 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 23191767.71 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 23168856.60 | | A | 1.5 |
| 4 | ☐ | 1.000 | | 23510334.93 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 22806556.33 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 22651559.66 | | A | 1.0 |
| 7 | ☐ | 1.000 | | 21107755.10 | | A | 11.0 |
| 8 | ☐ | 1.000 | | 21130643.85 | | A | 1.3 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1479770.27 | | A | 1.4 |
| 2 | ☐ | 1.000 | | 1456323.07 | | M | 1.6 |
| 3 | ☐ | 1.000 | | 1499016.85 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 1527904.34 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 1419823.33 | | A | 6.6 |
| 6 | ☐ | 1.000 | | 1481121.49 | | A | 0.6 |
| 7 | ☐ | 1.000 | | 1549730.91 | | A | 4.7 |
| 8 | ☐ | 1.000 | | 1360387.57 | | P | 1.0 |

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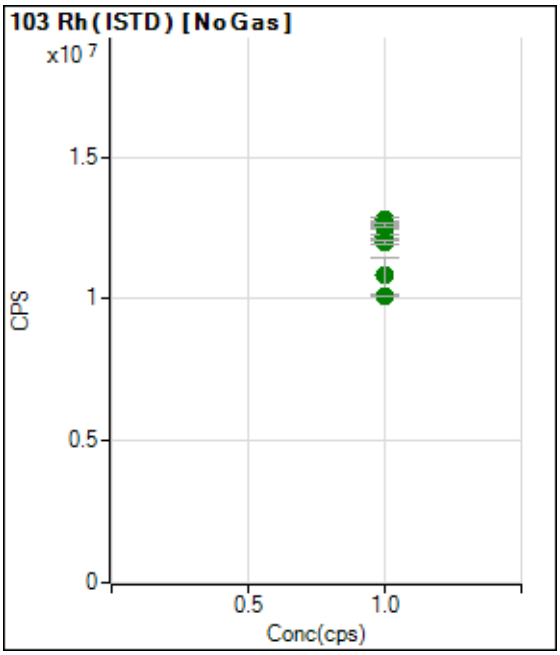
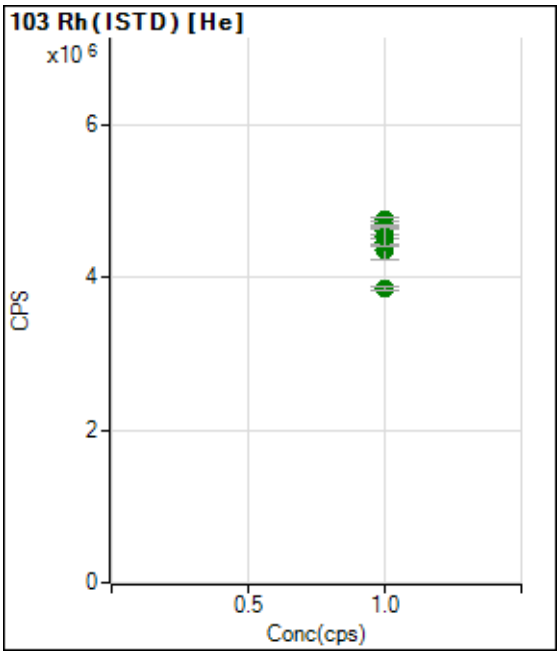



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 12782320.09 | | A | 0.9 |
| 2 | ☐ | 1.000 | | 12561536.48 | | A | 2.0 |
| 3 | ☐ | 1.000 | | 12649932.31 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 12608836.48 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 12201865.37 | | A | 1.1 |
| 6 | ☐ | 1.000 | | 11977403.29 | | A | 0.8 |
| 7 | ☐ | 1.000 | | 10811859.21 | | A | 12.1 |
| 8 | ☐ | 1.000 | | 10089469.99 | | A | 0.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4704888.12 | | A | 1.5 |
| 2 | ☐ | 1.000 | | 4603634.48 | | A | 2.0 |
| 3 | ☐ | 1.000 | | 4755815.48 | | A | 1.2 |
| 4 | ☐ | 1.000 | | 4652052.99 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 4370036.22 | | A | 6.7 |
| 6 | ☐ | 1.000 | | 4470309.76 | | A | 1.4 |
| 7 | ☐ | 1.000 | | 4532467.99 | | A | 5.4 |
| 8 | ☐ | 1.000 | | 3854420.98 | | A | 0.9 |

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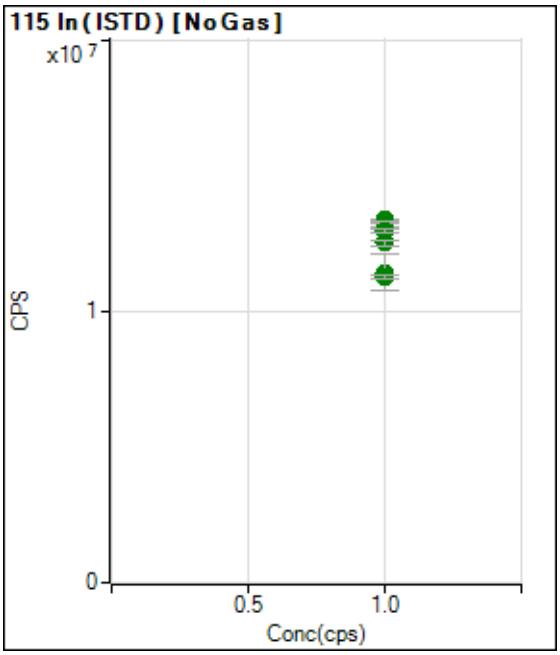
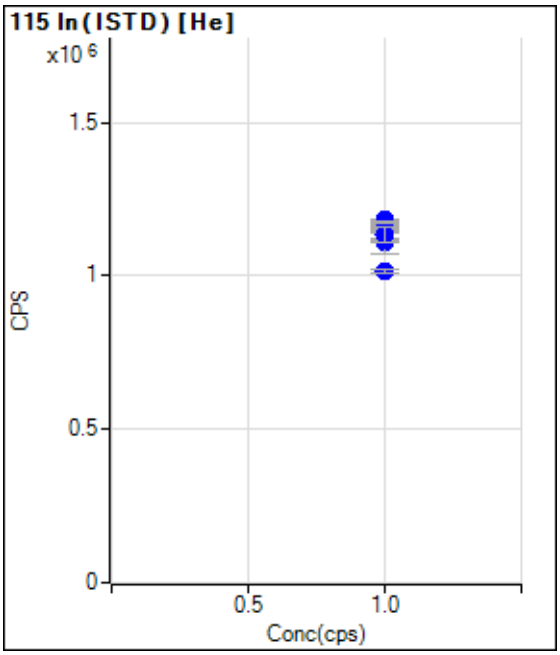
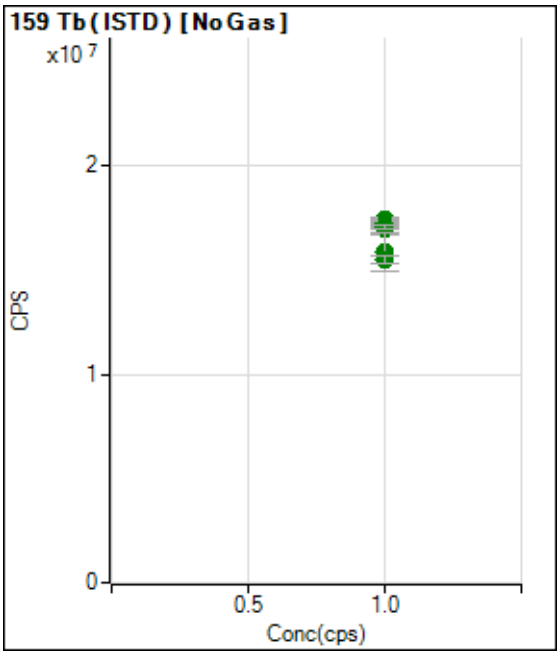



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 13212693.86 | | A | 1.8 |
| 2 | ☐ | 1.000 | | 13057363.74 | | A | 2.6 |
| 3 | ☐ | 1.000 | | 13364918.64 | | A | 0.6 |
| 4 | ☐ | 1.000 | | 13274282.88 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 12963308.84 | | A | 1.1 |
| 6 | ☐ | 1.000 | | 12509024.83 | | A | 1.6 |
| 7 | ☐ | 1.000 | | 11429489.40 | | A | 11.9 |
| 8 | ☐ | 1.000 | | 11256718.27 | | A | 1.3 |

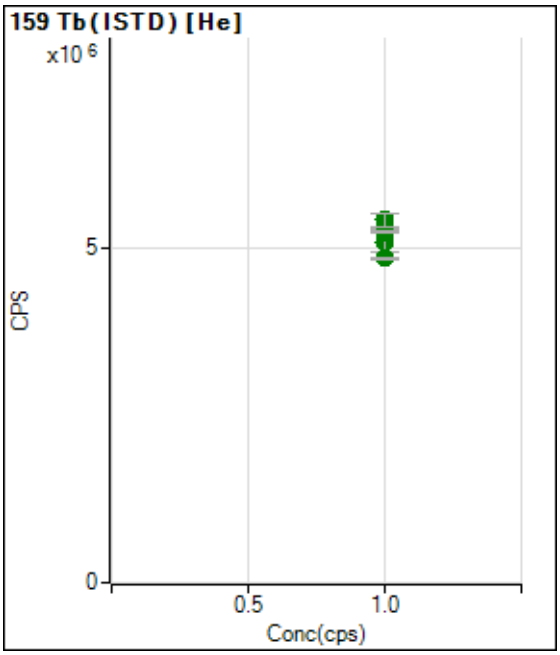



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1162723.01 | | P | 1.0 |
| 2 | ☐ | 1.000 | | 1151089.32 | | P | 0.4 |
| 3 | ☐ | 1.000 | | 1182332.40 | | P | 0.3 |
| 4 | ☐ | 1.000 | | 1175940.61 | | P | 0.5 |
| 5 | ☐ | 1.000 | | 1106871.18 | | P | 6.6 |
| 6 | ☐ | 1.000 | | 1116930.51 | | P | 0.7 |
| 7 | ☐ | 1.000 | | 1134549.26 | | P | 4.4 |
| 8 | ☐ | 1.000 | | 1013586.67 | | P | 1.2 |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

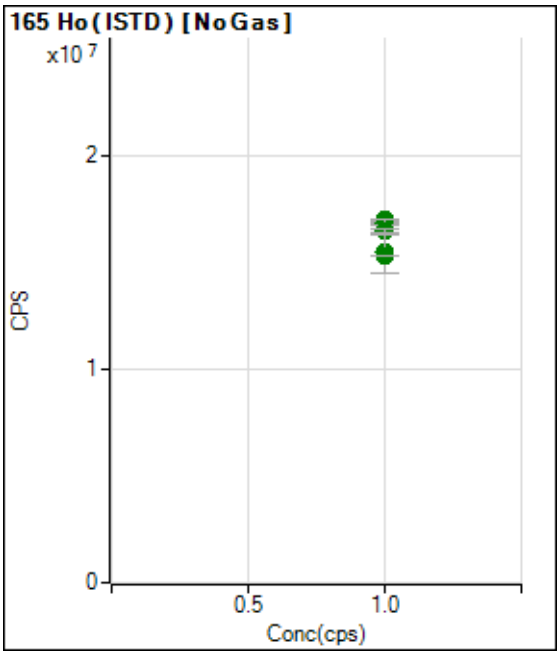



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 17186030.44 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 16978903.50 | | A | 2.9 |
| 3 | ☐ | 1.000 | | 17421142.24 | | A | 1.7 |
| 4 | ☐ | 1.000 | | 17233090.30 | | A | 2.4 |
| 5 | ☐ | 1.000 | | 17215332.52 | | A | 1.8 |
| 6 | ☐ | 1.000 | | 17073693.91 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 15883526.98 | | A | 11.9 |
| 8 | ☐ | 1.000 | | 15507671.30 | | A | 1.9 |

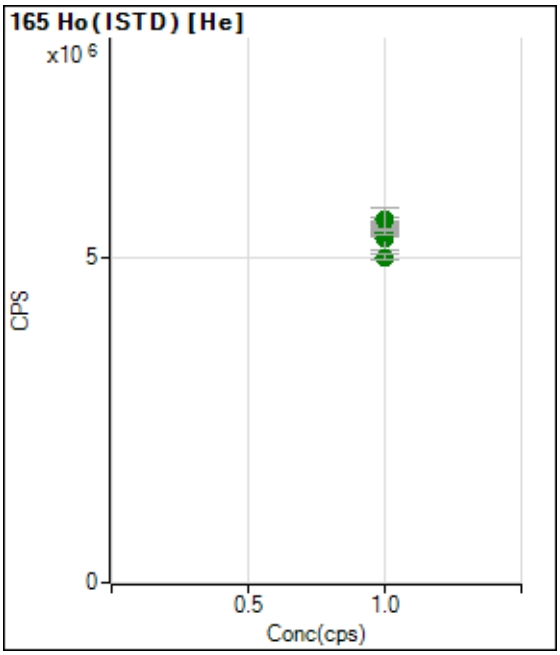



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 5289169.61 | | A | 0.8 |
| 2 | ☐ | 1.000 | | 5233614.78 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 5270020.65 | | A | 0.6 |
| 4 | ☐ | 1.000 | | 5290982.25 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 5069037.11 | | A | 5.9 |
| 6 | ☐ | 1.000 | | 5229326.48 | | A | 0.6 |
| 7 | ☐ | 1.000 | | 5410218.32 | | A | 4.0 |
| 8 | ☐ | 1.000 | | 4834974.96 | | A | 1.0 |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 16707541.97 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 16577442.67 | | A | 1.8 |
| 3 | ☐ | 1.000 | | 16991175.58 | | A | 0.6 |
| 4 | ☐ | 1.000 | | 16968499.47 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 16860305.03 | | A | 1.5 |
| 6 | ☐ | 1.000 | | 16446976.42 | | A | 1.3 |
| 7 | ☐ | 1.000 | | 15452593.52 | | A | 12.2 |
| 8 | ☐ | 1.000 | | 15300546.72 | | A | 0.3 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 5421287.83 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 5376568.01 | | A | 1.8 |
| 3 | ☐ | 1.000 | | 5591004.92 | | A | 1.1 |
| 4 | ☐ | 1.000 | | 5509994.64 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 5317883.67 | | A | 6.9 |
| 6 | ☐ | 1.000 | | 5409730.82 | | A | 1.3 |
| 7 | ☐ | 1.000 | | 5593917.42 | | A | 6.3 |
| 8 | ☐ | 1.000 | | 5014598.43 | | A | 1.9 |

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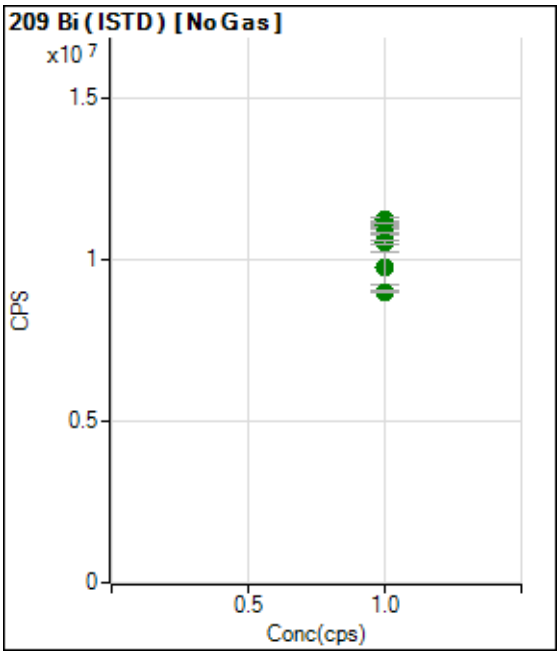
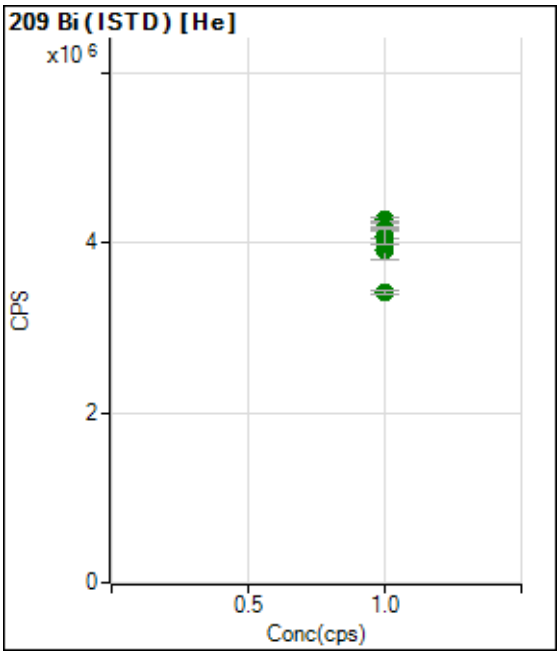
On:2/12/2025 6:07:41 PM
Inst Id :P8




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 11121104.97 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 11003452.75 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 11221479.42 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 11074504.00 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 10804286.51 | | A | 0.7 |
| 6 | ☐ | 1.000 | | 10528303.80 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 9729228.95 | | A | 10.5 |
| 8 | ☐ | 1.000 | | 9003517.92 | | A | 0.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4264118.37 | | A | 1.0 |
| 2 | ☐ | 1.000 | | 4175410.63 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 4230536.85 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 4154641.43 | | A | 1.2 |
| 5 | ☐ | 1.000 | | 3918098.14 | | A | 6.3 |
| 6 | ☐ | 1.000 | | 3983710.84 | | A | 0.2 |
| 7 | ☐ | 1.000 | | 4067287.16 | | A | 4.1 |
| 8 | ☐ | 1.000 | | 3408381.44 | | A | 1.4 |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8
ClientSampleId :TUNE006

# US EPA Tune Check Report

| | |
|---|---|
| **Operator Name** | Jaswal |
| **Acq/Data Batch** | D:\Agilent\ICPMH\1\DATA\P8021225MSA-2.b |
| **Acq. Date-Time** | 2025-02-12 13:01:38 |
| **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 | | 32308 | 323078.19 | | | 0.942 | 5.000 |
| 24 | | 288170 | 2881704.78 | | | 1.361 | 5.000 |
| 25 | | 38031 | 380307.73 | | | 1.193 | 5.000 |
| 26 | | 42922 | 429221.99 | | | 1.140 | 5.000 |
| 59 | | 168972 | 1689717.04 | | | 1.104 | 5.000 |
| 113 | | 18490 | 184895.11 | | | 0.895 | 5.000 |
| 115 | | 246354 | 2463544.77 | | | 0.838 | 5.000 |
| 206 | | 56346 | 563456.03 | | | 0.230 | 5.000 |
| 207 | | 48530 | 485299.33 | | | 0.410 | 5.000 |
| 208 | | 123373 | 1233729.52 | | | 1.180 | 5.000 |
| 220 | | 1 | 5.30 | | | 37.499 | |

| 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 | 32680 | 32489 | 32375 | 32034 | 31961 |
| 24 | 292379 | 290196 | 290218 | 283241 | 284819 |
| 25 | 38551 | 38416 | 38010 | 37664 | 37512 |
| 26 | 43559 | 43234 | 42876 | 42620 | 42321 |
| 59 | 169913 | 171066 | 169780 | 166495 | 167604 |
| 113 | 18747 | 18501 | 18499 | 18397 | 18303 |
| 115 | 248633 | 246478 | 245226 | 247927 | 243509 |
| 206 | 56494 | 56241 | 56471 | 56308 | 56215 |
| 207 | 48824 | 48566 | 48514 | 48271 | 48474 |
| 208 | 123858 | 124029 | 124784 | 120964 | 123229 |

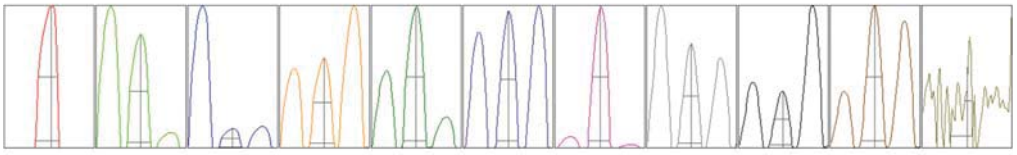
Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8
ClientSampleId :TUNE006

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 54784.04 | 9.10 | 8.90 - 9.10 | |
| 24 | 506259.45 | 24.00 | 23.90 - 24.10 | |
| 25 | 67625.41 | 25.00 | 24.90 - 25.10 | |
| 26 | 76960.69 | 26.00 | 25.90 - 26.10 | |
| 59 | 304876.09 | 59.00 | 58.90 - 59.10 | |
| 113 | 37242.16 | 113.05 | 112.90 - 113.10 | |
| 115 | 491633.37 | 115.05 | 114.90 - 115.10 | |
| 206 | 112775.04 | 206.00 | 205.90 - 206.10 | |
| 207 | 96873.54 | 207.00 | 206.90 - 207.10 | |
| 208 | 242522.55 | 208.00 | 207.90 - 208.10 | |
| 220 | 0.90 | 220.05 | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.62 | 0.784 | 0.900 | |
| 24 | 0.61 | 0.781 | 0.900 | |
| 25 | 0.60 | 0.742 | 0.900 | |
| 26 | 0.60 | 0.817 | 0.900 | |
| 59 | 0.58 | 0.781 | 0.900 | |
| 113 | 0.52 | 0.728 | 0.900 | |
| 115 | 0.52 | 0.730 | 0.900 | |
| 206 | 0.50 | 0.783 | 0.900 | |
| 207 | 0.50 | 0.771 | 0.900 | |
| 208 | 0.51 | 0.810 | 0.900 | |
| 220 | 0.25 | 0.728 | | |

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

**Tune Parameters**

**Plasma Parameters**

Plasma Mode --- Nebulizer Gas 0.72 L/min Dilution Gas 0.40 L/min

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8
ClientSampleId :TUNE006

# 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 | 9.0 V | Deflect | 14.4 V |
| Extract 2 | -220.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -95 V | Cell Exit | -50 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | --- | OctP RF | 150 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 103 | Axis Gain | 0.9962 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | 0.04 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.1 mm | Torch V | 1.1 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.1 mV | Analog HV | 2177 V | Pulse HV | 1090 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 30187 | 301872.16 | | | 0.591 | |
| 89 | | 28371 | 283709.05 | | | 0.866 | |
| 205 | | 31798 | 317980.41 | | | 0.220 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 30347 | 30340 | 30128 | 30206 | 29915 |
| 89 | 28582 | 28651 | 28236 | 28329 | 28057 |
| 205 | 31857 | 31777 | 31886 | 31736 | 31734 |

Integration Time [sec] 0.1

**Tune Parameters**

**Plasma Parameters**

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 9.0 V | Deflect | 3.2 V |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8
ClientSampleId :TUNE006

# US EPA Tune Check Report

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -220.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -95 V | Cell Exit | -70 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | --- | OctP RF | 200 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 103 | Axis Gain | 0.9962 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | 0.04 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.1 mm | Torch V | 1.1 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.1 mV | Analog HV | 2177 V | Pulse HV | 1090 V |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.18 | -0.36 | 0.54 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | -0.03 | 0.00 | 0.03 | 0.00 | N/A | ppb |
| Barium | 135-1 | -0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Barium | 137-1 | -0.01 | 0.00 | 0.01 | 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 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | -0.30 | 0.04 | 0.27 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | -0.03 | 0.00 | 0.03 | 0.00 | N/A | ppb |
| Calcium | 43-1 | 1.10 | -0.68 | -0.42 | 0.00 | N/A | ppb |
| Calcium | 44-1 | -0.60 | -0.15 | 0.75 | 0.00 | N/A | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.02 | -0.02 | 0.00 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | -0.01 | 0.00 | 0.01 | 0.00 | N/A | ppb |
| Copper | 63-2 | -0.02 | 0.01 | 0.01 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | -0.02 | 0.19 | -0.17 | 0.00 | N/A | ppb |
| Iron | 56-2 | -0.12 | 0.15 | -0.03 | 0.00 | N/A | ppb |
| Iron | 57-2 | 0.09 | -0.39 | 0.31 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.00 | -0.01 | 0.01 | 0.00 | N/A | ppb |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | -0.19 | 0.74 | -0.55 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.04 | 0.01 | -0.06 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | 0.00 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 95-1 | 0.00 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 97-1 | 0.01 | 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 | -0.06 | -0.02 | 0.09 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -25.51 | -35.52 | -17.26 | -26.10 | | ppb |
| Potassium | 39-2 | 0.33 | 2.46 | -2.78 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | -0.06 | -0.18 | 0.25 | 0.00 | N/A | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.71 | 0.52 | 0.19 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -0.60 | 0.50 | 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 | 0.80 | 0.88 | -1.68 | 0.00 | N/A | ppb |
| Strontium | 86-1 | 0.01 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -181.03 | 111.32 | -34.10 | -34.60 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Tin | 118-1 | 0.00 | 0.00 | 0.01 | 0.00 | N/A | ppb |
| Titanium | 47-1 | 0.00 | -0.01 | 0.01 | 0.00 | N/A | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | 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 | -0.01 | 0.04 | -0.02 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22.19 | 21.28 | 21.82 | 21.76 | 2.10 | ppb |
| Antimony | 121-1 | 2.06 | 2.17 | 2.01 | 2.08 | 3.99 | ppb |
| Arsenic | 75-2 | 1.15 | 1.30 | 1.08 | 1.18 | 9.15 | ppb |
| Barium | 135-1 | 9.92 | 10.38 | 9.84 | 10.05 | 2.86 | ppb |
| Barium | 137-1 | 10.10 | 10.38 | 10.04 | 10.18 | 1.79 | ppb |
| Beryllium | 9-1 | 1.07 | 1.11 | 1.02 | 1.07 | 4.38 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.03 | 1.05 | 0.99 | 1.02 | 2.87 | ppb |
| Cadmium | 106-1 | 1.14 | 1.22 | 0.73 | 1.03 | 25.64 | ppb |
| Cadmium | 111-1 | 1.10 | 1.10 | 1.04 | 1.08 | 3.21 | ppb |
| Calcium | 43-1 | 545.77 | 584.14 | 568.21 | 566.04 | 3.41 | ppb |
| Calcium | 44-1 | 551.55 | 564.12 | 548.83 | 554.83 | 1.47 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.30 | 2.40 | 2.36 | 2.35 | 2.12 | ppb |
| Cobalt | 59-2 | 1.25 | 1.26 | 1.18 | 1.23 | 3.43 | ppb |
| Copper | 63-2 | 2.27 | 2.34 | 2.36 | 2.33 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 60.07 | 60.70 | 60.67 | 60.48 | 0.59 | ppb |
| Iron | 56-2 | 58.88 | 57.69 | 58.10 | 58.23 | 1.04 | ppb |
| Iron | 57-2 | 56.24 | 53.54 | 55.88 | 55.22 | 2.66 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.97 | 0.96 | 0.95 | 0.96 | 0.96 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.96 | 0.95 | 0.97 | 0.96 | 0.90 | ppb |
| Lead | 208-1 | 0.96 | 0.97 | 0.95 | 0.96 | 0.85 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 564.25 | 572.29 | 569.64 | 568.73 | 0.72 | ppb |
| Manganese | 55-2 | 1.14 | 1.18 | 1.22 | 1.18 | 3.30 | ppb |
| Molybdenum | 94-1 | 5.81 | 6.03 | 5.76 | 5.87 | 2.50 | ppb |
| Molybdenum | 95-1 | 4.97 | 5.02 | 4.94 | 4.98 | 0.81 | ppb |
| Molybdenum | 96-1 | 5.11 | 5.08 | 4.88 | 5.03 | 2.45 | ppb |
| Molybdenum | 97-1 | 4.98 | 4.97 | 4.87 | 4.94 | 1.26 | ppb |
| Molybdenum | 98-1 | 4.95 | 5.06 | 4.88 | 4.96 | 1.78 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.14 | 1.16 | 1.09 | 1.13 | 3.11 | ppb |
| Phosphorus | 31-2 | 35.22 | 24.90 | 18.17 | 26.10 | 32.92 | ppb |
| Potassium | 39-2 | 536.58 | 525.68 | 524.66 | 528.97 | 1.25 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 5.77 | 5.29 | 5.45 | 5.50 | 4.42 | ppb |
| Selenium | 77-2 | 4.07 | 5.20 | 5.26 | 4.85 | 13.79 | ppb |
| Selenium | 78-2 | 5.05 | 4.24 | 6.80 | 5.36 | 24.35 | ppb |
| Silicon | 28-1 | 6.15 | 7.27 | 5.49 | 6.31 | 14.30 | ppb |
| Silver | 107-1 | 0.98 | 1.05 | 0.96 | 1.00 | 5.20 | ppb |
| Silver | 109-1 | 1.00 | 1.03 | 1.02 | 1.02 | 1.31 | ppb |
| Sodium | 23-2 | 567.69 | 575.94 | 564.79 | 569.47 | 1.02 | ppb |
| Strontium | 86-1 | 0.99 | 1.06 | 0.96 | 1.00 | 5.12 | ppb |
| Strontium | 88-1 | 0.99 | 1.01 | 0.98 | 0.99 | 1.66 | ppb |
| Sulfur | 34-1 | -48.57 | 271.51 | -119.13 | 34.60 | 601.59 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 1.00 | 0.99 | 0.97 | 0.98 | 1.64 | ppb |
| Thallium | 205-1 | 0.99 | 0.98 | 0.97 | 0.98 | 1.12 | ppb |
| Tin | 118-1 | 5.10 | 5.28 | 5.03 | 5.14 | 2.49 | ppb |
| Titanium | 47-1 | 5.06 | 5.28 | 5.23 | 5.19 | 2.25 | ppb |
| Uranium | 238-1 | 0.96 | 0.93 | 0.93 | 0.94 | 1.66 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5.80 | 5.67 | 5.79 | 5.75 | 1.29 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 5.98 | 6.01 | 5.99 | 5.99 | 0.27 | ppb |
| Zirconium | 90-1 | 0.97 | 0.99 | 0.94 | 0.97 | 2.58 | ppb |
| Zirconium | 91-1 | 0.97 | 0.93 | 0.95 | 0.95 | 1.82 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 980.61 | 1000.98 | 992.14 | 991.24 | 1.03 | ppb |
| Antimony | 121-1 | 46.51 | 45.91 | 47.48 | 46.63 | 1.70 | ppb |
| Arsenic | 75-2 | 52.27 | 52.67 | 50.51 | 51.81 | 2.22 | ppb |
| Barium | 135-1 | 230.69 | 229.49 | 234.03 | 231.41 | 1.02 | ppb |
| Barium | 137-1 | 233.82 | 229.20 | 236.81 | 233.27 | 1.64 | ppb |
| Beryllium | 9-1 | 47.06 | 47.56 | 47.92 | 47.51 | 0.91 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 49.51 | 47.50 | 48.98 | 48.66 | 2.15 | ppb |
| Cadmium | 106-1 | 49.20 | 46.34 | 47.35 | 47.63 | 3.04 | ppb |
| Cadmium | 111-1 | 47.70 | 46.82 | 47.71 | 47.41 | 1.08 | ppb |
| Calcium | 43-1 | 5170.03 | 5202.57 | 5127.46 | 5166.69 | 0.73 | ppb |
| Calcium | 44-1 | 5215.15 | 5318.31 | 5117.98 | 5217.15 | 1.92 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 50.60 | 51.37 | 50.84 | 50.94 | 0.78 | ppb |
| Cobalt | 59-2 | 52.85 | 53.63 | 53.67 | 53.38 | 0.87 | ppb |
| Copper | 63-2 | 549.25 | 554.44 | 549.24 | 550.98 | 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 | | | | 103 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | 2609.62 | 2629.83 | 2621.77 | 2620.40 | 0.39 | ppb |
| Iron | 56-2 | 2631.64 | 2640.48 | 2595.86 | 2622.66 | 0.90 | ppb |
| Iron | 57-2 | 2558.64 | 2597.75 | 2578.79 | 2578.39 | 0.76 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 234.10 | 238.43 | 231.65 | 234.73 | 1.46 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 231.35 | 233.74 | 226.73 | 230.61 | 1.54 | ppb |
| Lead | 208-1 | 231.75 | 232.12 | 227.06 | 230.31 | 1.23 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 5123.96 | 5275.92 | 5129.94 | 5176.61 | 1.66 | ppb |
| Manganese | 55-2 | 513.71 | 531.42 | 524.90 | 523.34 | 1.71 | ppb |
| Molybdenum | 94-1 | 478.69 | 475.71 | 465.55 | 473.31 | 1.46 | ppb |
| Molybdenum | 95-1 | 475.86 | 476.29 | 478.33 | 476.83 | 0.28 | ppb |
| Molybdenum | 96-1 | 476.78 | 476.92 | 469.26 | 474.32 | 0.92 | ppb |
| Molybdenum | 97-1 | 473.60 | 467.00 | 471.98 | 470.86 | 0.73 | ppb |
| Molybdenum | 98-1 | 474.21 | 468.93 | 466.80 | 469.98 | 0.81 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 51.98 | 53.47 | 52.78 | 52.74 | 1.42 | ppb |
| Phosphorus | 31-2 | 1030.46 | 971.84 | 1009.33 | 1003.88 | 2.96 | ppb |
| Potassium | 39-2 | 2421.44 | 2456.63 | 2431.73 | 2436.60 | 0.74 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 47.80 | 48.00 | 48.63 | 48.14 | 0.91 | ppb |
| Selenium | 77-2 | 51.60 | 63.92 | 75.69 | 63.73 | 18.90 | ppb |
| Selenium | 78-2 | 51.39 | 50.62 | 51.16 | 51.06 | 0.77 | ppb |
| Silicon | 28-1 | 49.48 | 49.61 | 46.68 | 48.59 | 3.40 | ppb |
| Silver | 107-1 | 47.85 | 46.91 | 48.54 | 47.77 | 1.72 | ppb |
| Silver | 109-1 | 48.16 | 46.89 | 49.00 | 48.01 | 2.21 | ppb |
| Sodium | 23-2 | 5116.80 | 5322.58 | 5190.45 | 5209.94 | 2.00 | ppb |
| Strontium | 86-1 | 46.21 | 46.01 | 45.14 | 45.79 | 1.25 | ppb |
| Strontium | 88-1 | 47.40 | 47.78 | 47.58 | 47.59 | 0.40 | ppb |
| Sulfur | 34-1 | 1100.34 | 946.94 | 779.21 | 942.17 | 17.05 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 44.97 | 45.35 | 45.08 | 45.14 | 0.43 | ppb |
| Thallium | 205-1 | 45.52 | 45.94 | 45.45 | 45.64 | 0.58 | ppb |
| Tin | 118-1 | 47.08 | 46.34 | 47.78 | 47.07 | 1.53 | ppb |
| Titanium | 47-1 | 472.90 | 470.00 | 464.80 | 469.23 | 0.88 | ppb |
| Uranium | 238-1 | 44.76 | 46.25 | 45.03 | 45.35 | 1.76 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 51.01 | 50.95 | 51.59 | 51.18 | 0.70 | 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 | 529.58 | 539.73 | 534.12 | 534.48 | 0.95 | ppb |
| Zirconium | 90-1 | 46.28 | 45.60 | 45.69 | 45.86 | 0.81 | ppb |
| Zirconium | 91-1 | 45.91 | 45.98 | 45.49 | 45.79 | 0.58 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2473.13 | 2492.72 | 2514.60 | 2493.48 | 0.83 | ppb |
| Antimony | 121-1 | 116.20 | 120.09 | 122.48 | 119.59 | 2.65 | ppb |
| Arsenic | 75-2 | 125.67 | 128.02 | 129.60 | 127.77 | 1.55 | ppb |
| Barium | 135-1 | 576.78 | 604.34 | 618.03 | 599.72 | 3.50 | ppb |
| Barium | 137-1 | 590.86 | 586.56 | 608.20 | 595.21 | 1.92 | ppb |
| Beryllium | 9-1 | 117.19 | 121.44 | 119.04 | 119.22 | 1.79 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 118.90 | 122.66 | 126.25 | 122.60 | 3.00 | ppb |
| Cadmium | 106-1 | 116.98 | 121.07 | 126.00 | 121.35 | 3.72 | ppb |
| Cadmium | 111-1 | 116.06 | 119.03 | 124.60 | 119.90 | 3.61 | ppb |
| Calcium | 43-1 | 12503.90 | 12768.50 | 12713.14 | 12661.85 | 1.10 | ppb |
| Calcium | 44-1 | 12621.88 | 12480.48 | 12591.57 | 12564.64 | 0.59 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 128.05 | 128.27 | 130.36 | 128.89 | 0.99 | ppb |
| Cobalt | 59-2 | 131.69 | 131.26 | 132.22 | 131.72 | 0.36 | ppb |
| Copper | 63-2 | 1352.22 | 1353.90 | 1378.15 | 1361.42 | 1.07 | 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 | | | | 102 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 54-2 | 6498.85 | 6468.14 | 6581.58 | 6516.19 | 0.90 | ppb |
| Iron | 56-2 | 6648.28 | 6508.90 | 6554.90 | 6570.69 | 1.08 | ppb |
| Iron | 57-2 | 6513.29 | 6400.68 | 6473.00 | 6462.32 | 0.88 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 566.18 | 570.71 | 583.15 | 573.35 | 1.53 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 573.90 | 580.66 | 582.74 | 579.10 | 0.80 | ppb |
| Lead | 208-1 | 574.01 | 576.21 | 585.32 | 578.51 | 1.04 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 13053.91 | 12689.22 | 13145.08 | 12962.74 | 1.86 | ppb |
| Manganese | 55-2 | 1371.72 | 1326.33 | 1362.65 | 1353.57 | 1.77 | ppb |
| Molybdenum | 94-1 | 1129.79 | 1138.32 | 1179.18 | 1149.10 | 2.30 | ppb |
| Molybdenum | 95-1 | 1148.31 | 1157.72 | 1172.10 | 1159.38 | 1.03 | ppb |
| Molybdenum | 96-1 | 1155.48 | 1163.79 | 1159.15 | 1159.48 | 0.36 | ppb |
| Molybdenum | 97-1 | 1153.11 | 1154.22 | 1171.09 | 1159.47 | 0.87 | ppb |
| Molybdenum | 98-1 | 1164.45 | 1139.22 | 1183.60 | 1162.42 | 1.91 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 130.79 | 131.32 | 133.17 | 131.76 | 0.95 | ppb |
| Phosphorus | 31-2 | 2604.46 | 2596.44 | 2655.81 | 2618.90 | 1.23 | ppb |
| Potassium | 39-2 | 6118.06 | 6107.05 | 6191.36 | 6138.82 | 0.75 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 116.34 | 118.10 | 121.52 | 118.65 | 2.22 | ppb |
| Selenium | 77-2 | 131.62 | 119.83 | 121.16 | 124.20 | 5.20 | ppb |
| Selenium | 78-2 | 128.60 | 136.99 | 121.37 | 128.99 | 6.06 | ppb |
| Silicon | 28-1 | 114.99 | 116.51 | 115.98 | 115.83 | 0.67 | ppb |
| Silver | 107-1 | 122.03 | 125.09 | 128.58 | 125.23 | 2.62 | ppb |
| Silver | 109-1 | 120.33 | 125.04 | 129.95 | 125.11 | 3.85 | ppb |
| Sodium | 23-2 | 12987.90 | 12721.09 | 13217.25 | 12975.41 | 1.91 | ppb |
| Strontium | 86-1 | 112.72 | 111.83 | 114.57 | 113.04 | 1.23 | ppb |
| Strontium | 88-1 | 115.52 | 116.04 | 116.70 | 116.09 | 0.51 | ppb |
| Sulfur | 34-1 | 2102.42 | 2266.40 | 2099.21 | 2156.01 | 4.43 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 116.99 | 117.48 | 116.67 | 117.05 | 0.35 | ppb |
| Thallium | 205-1 | 114.45 | 116.96 | 119.71 | 117.04 | 2.25 | ppb |
| Tin | 118-1 | 114.45 | 119.91 | 122.17 | 118.84 | 3.34 | ppb |
| Titanium | 47-1 | 1172.89 | 1160.59 | 1161.88 | 1165.12 | 0.58 | ppb |
| Uranium | 238-1 | 112.65 | 114.08 | 116.61 | 114.45 | 1.75 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 129.23 | 128.99 | 130.20 | 129.47 | 0.50 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 1324.28 | 1328.88 | 1347.28 | 1333.48 | 0.91 | ppb |
| Zirconium | 90-1 | 115.68 | 117.02 | 117.60 | 116.77 | 0.84 | ppb |
| Zirconium | 91-1 | 111.82 | 113.95 | 115.80 | 113.85 | 1.75 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5271.79 | 4953.67 | 5758.40 | 5327.95 | 7.61 | ppb |
| Antimony | 121-1 | 242.93 | 252.51 | 253.19 | 249.54 | 2.30 | ppb |
| Arsenic | 75-2 | 273.89 | 273.38 | 310.85 | 286.04 | 7.51 | ppb |
| Barium | 135-1 | 1191.98 | 1225.57 | 1232.30 | 1216.62 | 1.78 | ppb |
| Barium | 137-1 | 1186.08 | 1252.59 | 1214.31 | 1217.66 | 2.74 | ppb |
| Beryllium | 9-1 | 245.19 | 251.43 | 252.81 | 249.81 | 1.62 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 243.03 | 252.73 | 247.17 | 247.64 | 1.96 | ppb |
| Cadmium | 106-1 | 241.65 | 253.65 | 248.03 | 247.78 | 2.42 | ppb |
| Cadmium | 111-1 | 238.24 | 249.42 | 243.79 | 243.82 | 2.29 | ppb |
| Calcium | 43-1 | 26019.82 | 27018.75 | 26876.73 | 26638.43 | 2.03 | ppb |
| Calcium | 44-1 | 25559.32 | 26710.66 | 26757.98 | 26342.65 | 2.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 269.79 | 257.39 | 293.09 | 273.43 | 6.63 | ppb |
| Cobalt | 59-2 | 283.89 | 272.14 | 309.33 | 288.45 | 6.59 | ppb |
| Copper | 63-2 | 2857.58 | 2696.44 | 3083.62 | 2879.21 | 6.76 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 14040.52 | 13452.96 | 14958.22 | 14150.57 | 5.36 | ppb |
| Iron | 56-2 | 13853.92 | 13094.42 | 14981.69 | 13976.68 | 6.79 | ppb |
| Iron | 57-2 | 13426.16 | 12869.53 | 14809.01 | 13701.57 | 7.29 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1176.90 | 1184.90 | 1194.46 | 1185.42 | 0.74 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1186.82 | 1200.49 | 1200.62 | 1195.98 | 0.66 | ppb |
| Lead | 208-1 | 1191.19 | 1205.63 | 1211.09 | 1202.64 | 0.85 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 26923.00 | 25814.65 | 29804.31 | 27513.99 | 7.49 | ppb |
| Manganese | 55-2 | 2780.25 | 2671.31 | 3099.05 | 2850.21 | 7.80 | ppb |
| Molybdenum | 94-1 | 2396.16 | 2467.10 | 2417.49 | 2426.91 | 1.50 | ppb |
| Molybdenum | 95-1 | 2428.33 | 2487.80 | 2449.55 | 2455.23 | 1.23 | ppb |
| Molybdenum | 96-1 | 2409.53 | 2489.83 | 2426.68 | 2442.01 | 1.73 | ppb |
| Molybdenum | 97-1 | 2412.15 | 2451.65 | 2452.70 | 2438.83 | 0.95 | ppb |
| Molybdenum | 98-1 | 2426.80 | 2460.19 | 2465.19 | 2450.73 | 0.85 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 272.68 | 262.23 | 300.51 | 278.47 | 7.10 | ppb |
| Phosphorus | 31-2 | 5548.54 | 5450.25 | 6107.25 | 5702.01 | 6.21 | ppb |
| Potassium | 39-2 | 13284.16 | 12916.06 | 14656.18 | 13618.80 | 6.73 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 93 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 241.38 | 252.65 | 250.49 | 248.17 | 2.41 | ppb |
| Selenium | 77-2 | 258.14 | 273.95 | 292.82 | 274.97 | 6.31 | ppb |
| Selenium | 78-2 | 267.61 | 266.80 | 301.46 | 278.62 | 7.10 | ppb |
| Silicon | 28-1 | 241.05 | 252.24 | 249.09 | 247.46 | 2.33 | ppb |
| Silver | 107-1 | 242.69 | 259.01 | 249.75 | 250.48 | 3.27 | ppb |
| Silver | 109-1 | 245.47 | 255.99 | 251.31 | 250.92 | 2.10 | ppb |
| Sodium | 23-2 | 27473.28 | 26025.92 | 29599.31 | 27699.51 | 6.49 | ppb |
| Strontium | 86-1 | 234.11 | 239.07 | 236.92 | 236.70 | 1.05 | ppb |
| Strontium | 88-1 | 236.66 | 241.57 | 239.33 | 239.18 | 1.03 | ppb |
| Sulfur | 34-1 | 4245.86 | 4879.31 | 4680.53 | 4601.90 | 7.04 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 240.10 | 240.17 | 247.11 | 242.46 | 1.66 | ppb |
| Thallium | 205-1 | 235.61 | 237.06 | 238.80 | 237.16 | 0.67 | ppb |
| Tin | 118-1 | 239.30 | 251.51 | 248.50 | 246.43 | 2.58 | ppb |
| Titanium | 47-1 | 2371.91 | 2452.21 | 2443.44 | 2422.52 | 1.82 | ppb |
| Uranium | 238-1 | 239.98 | 241.49 | 243.42 | 241.63 | 0.72 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 271.03 | 260.09 | 296.92 | 276.01 | 6.85 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 96 | | % |
| Zinc | 66-2 | 2788.96 | 2674.49 | 3032.41 | 2831.96 | 6.45 | ppb |
| Zirconium | 90-1 | 240.03 | 242.77 | 238.96 | 240.59 | 0.82 | ppb |
| Zirconium | 91-1 | 245.60 | 244.15 | 243.58 | 244.44 | 0.43 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10003.67 | 10002.79 | 9718.67 | 9908.37 | 1.66 | ppb |
| Antimony | 121-1 | 476.65 | 482.58 | 478.28 | 479.17 | 0.64 | ppb |
| Arsenic | 75-2 | 520.97 | 533.52 | 524.04 | 526.18 | 1.24 | ppb |
| Barium | 135-1 | 2364.47 | 2411.98 | 2399.70 | 2392.05 | 1.03 | ppb |
| Barium | 137-1 | 2378.24 | 2356.21 | 2369.12 | 2367.86 | 0.47 | ppb |
| Beryllium | 9-1 | 487.22 | 482.74 | 469.15 | 479.71 | 1.96 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 475.34 | 471.46 | 487.10 | 477.97 | 1.70 | ppb |
| Cadmium | 106-1 | 482.58 | 480.62 | 476.85 | 480.02 | 0.61 | ppb |
| Cadmium | 111-1 | 477.38 | 475.76 | 479.92 | 477.69 | 0.44 | ppb |
| Calcium | 43-1 | 51448.89 | 53138.33 | 52767.64 | 52451.62 | 1.69 | ppb |
| Calcium | 44-1 | 50639.13 | 51723.45 | 51715.58 | 51359.39 | 1.21 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 545.82 | 526.46 | 517.22 | 529.83 | 2.75 | ppb |
| Cobalt | 59-2 | 533.54 | 539.73 | 530.32 | 534.53 | 0.90 | ppb |
| Copper | 63-2 | 5441.73 | 5350.01 | 5195.32 | 5329.02 | 2.34 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 26173.68 | 26595.78 | 25814.72 | 26194.73 | 1.49 | ppb |
| Iron | 56-2 | 26361.68 | 25803.39 | 26046.91 | 26070.66 | 1.07 | ppb |
| Iron | 57-2 | 25579.52 | 26152.45 | 26026.33 | 25919.43 | 1.16 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2378.62 | 2430.44 | 2394.93 | 2401.33 | 1.10 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2371.77 | 2385.76 | 2378.00 | 2378.51 | 0.29 | ppb |
| Lead | 208-1 | 2370.40 | 2399.40 | 2377.67 | 2382.49 | 0.63 | ppb |
| Lithium | 6-1 | | | | 94 | | % |
| Magnesium | 24-2 | 52008.18 | 50328.83 | 50805.33 | 51047.45 | 1.70 | ppb |
| Manganese | 55-2 | 5330.62 | 5250.32 | 5163.54 | 5248.16 | 1.59 | ppb |
| Molybdenum | 94-1 | 4690.94 | 4768.67 | 4781.22 | 4746.95 | 1.03 | ppb |
| Molybdenum | 95-1 | 4762.16 | 4766.18 | 4852.17 | 4793.50 | 1.06 | ppb |
| Molybdenum | 96-1 | 4775.06 | 4830.19 | 4826.36 | 4810.53 | 0.64 | ppb |
| Molybdenum | 97-1 | 4789.54 | 4773.45 | 4784.22 | 4782.40 | 0.17 | ppb |
| Molybdenum | 98-1 | 4756.01 | 4797.94 | 4806.92 | 4786.96 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 518.78 | 518.52 | 511.23 | 516.18 | 0.83 | ppb |
| Phosphorus | 31-2 | 10603.37 | 10590.08 | 10501.63 | 10565.03 | 0.52 | ppb |
| Potassium | 39-2 | 25173.40 | 24808.39 | 24913.24 | 24965.01 | 0.75 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 472.44 | 488.70 | 474.25 | 478.46 | 1.86 | ppb |
| Selenium | 77-2 | 510.18 | 528.15 | 531.71 | 523.35 | 2.21 | ppb |
| Selenium | 78-2 | 515.98 | 513.10 | 550.74 | 526.61 | 3.98 | ppb |
| Silicon | 28-1 | 472.23 | 486.83 | 470.72 | 476.59 | 1.87 | ppb |
| Silver | 107-1 | 476.47 | 484.06 | 481.40 | 480.64 | 0.80 | ppb |
| Silver | 109-1 | 471.76 | 479.07 | 486.03 | 478.95 | 1.49 | ppb |
| Sodium | 23-2 | 52608.71 | 51625.83 | 51080.13 | 51771.56 | 1.50 | ppb |
| Strontium | 86-1 | 463.57 | 483.64 | 474.91 | 474.04 | 2.12 | ppb |
| Strontium | 88-1 | 473.20 | 480.15 | 475.43 | 476.26 | 0.74 | ppb |
| Sulfur | 34-1 | 8923.60 | 9539.84 | 9118.76 | 9194.07 | 3.43 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 478.20 | 486.08 | 481.04 | 481.78 | 0.83 | ppb |
| Thallium | 205-1 | 476.56 | 486.89 | 475.70 | 479.72 | 1.30 | ppb |
| Tin | 118-1 | 476.61 | 485.43 | 474.51 | 478.85 | 1.21 | ppb |
| Titanium | 47-1 | 4714.35 | 4752.17 | 4806.56 | 4757.69 | 0.97 | ppb |
| Uranium | 238-1 | 472.19 | 474.63 | 467.86 | 471.56 | 0.73 | ppb |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 518.47 | 517.58 | 511.28 | 515.78 | 0.76 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 5486.66 | 5397.41 | 5305.00 | 5396.36 | 1.68 | ppb |
| Zirconium | 90-1 | 473.57 | 475.06 | 476.96 | 475.20 | 0.36 | ppb |
| Zirconium | 91-1 | 477.58 | 482.67 | 483.65 | 481.30 | 0.68 | ppb |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 17407.06 | 18192.09 | 19324.07 | 18307.74 | 5.26 | ppb |
| Antimony | 121-1 | 933.88 | 935.07 | 1165.16 | 1011.37 | 13.17 | ppb |
| Arsenic | 75-2 | 939.97 | 963.53 | 1028.89 | 977.47 | 4.71 | ppb |
| Barium | 135-1 | 4636.40 | 4656.18 | 5906.65 | 5066.41 | 14.36 | ppb |
| Barium | 137-1 | 4680.98 | 4601.74 | 5953.43 | 5078.72 | 14.94 | ppb |
| Beryllium | 9-1 | 951.68 | 957.49 | 1123.95 | 1011.04 | 9.68 | ppb |
| Bismuth | 209-1 | | | | 87 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 932.79 | 925.56 | 1177.57 | 1011.97 | 14.18 | ppb |
| Cadmium | 106-1 | 934.55 | 932.23 | 1166.58 | 1011.12 | 13.32 | ppb |
| Cadmium | 111-1 | 941.63 | 938.22 | 1160.56 | 1013.47 | 12.57 | ppb |
| Calcium | 43-1 | 100504.85 | 104306.73 | 133648.30 | 112819.96 | 16.08 | ppb |
| Calcium | 44-1 | 99144.70 | 102518.81 | 129284.26 | 110315.92 | 14.97 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 927.09 | 976.83 | 1032.16 | 978.69 | 5.37 | ppb |
| Cobalt | 59-2 | 932.21 | 956.96 | 1027.18 | 972.11 | 5.07 | ppb |
| Copper | 63-2 | 9186.58 | 9645.30 | 10340.75 | 9724.21 | 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 | | | | 92 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 87 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 46062.83 | 48142.76 | 51201.64 | 48469.08 | 5.33 | ppb |
| Iron | 56-2 | 45903.27 | 47686.37 | 51113.43 | 48234.36 | 5.49 | ppb |
| Iron | 57-2 | 46732.31 | 47777.48 | 51862.25 | 48790.68 | 5.56 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4631.31 | 4826.14 | 5760.65 | 5072.70 | 11.90 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4680.76 | 4819.94 | 5742.18 | 5080.96 | 11.35 | ppb |
| Lead | 208-1 | 4662.59 | 4792.29 | 5777.30 | 5077.39 | 12.01 | ppb |
| Lithium | 6-1 | | | | 88 | | % |
| Magnesium | 24-2 | 89946.95 | 93262.61 | 99753.94 | 94321.17 | 5.29 | ppb |
| Manganese | 55-2 | 9338.53 | 9621.76 | 10362.47 | 9774.25 | 5.41 | ppb |
| Molybdenum | 94-1 | 9103.55 | 9496.57 | 11876.11 | 10158.74 | 14.77 | ppb |
| Molybdenum | 95-1 | 9200.98 | 9660.85 | 11518.96 | 10126.93 | 12.12 | ppb |
| Molybdenum | 96-1 | 9173.90 | 9618.76 | 11572.83 | 10121.83 | 12.61 | ppb |
| Molybdenum | 97-1 | 9241.87 | 9482.73 | 11685.99 | 10136.86 | 13.29 | ppb |
| Molybdenum | 98-1 | 9220.50 | 9568.84 | 11604.53 | 10131.29 | 12.71 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 939.68 | 979.69 | 1032.07 | 983.81 | 4.71 | ppb |
| Phosphorus | 31-2 | 18662.18 | 19364.96 | 20553.65 | 19526.93 | 4.90 | ppb |
| Potassium | 39-2 | 43790.41 | 45416.58 | 48390.12 | 45865.70 | 5.09 | ppb |
| Rhodium | 103-1 | | | | 85 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 90 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 935.41 | 951.34 | 1149.57 | 1012.11 | 11.79 | ppb |
| Selenium | 77-2 | 927.18 | 944.62 | 1072.69 | 981.50 | 8.10 | ppb |
| Selenium | 78-2 | 911.92 | 969.83 | 1055.22 | 978.99 | 7.36 | ppb |
| Silicon | 28-1 | 923.67 | 920.73 | 1196.38 | 1013.59 | 15.62 | ppb |
| Silver | 107-1 | 939.75 | 924.15 | 1165.03 | 1009.64 | 13.35 | ppb |
| Silver | 109-1 | 931.75 | 942.31 | 1157.07 | 1010.38 | 12.58 | ppb |
| Sodium | 23-2 | 91953.12 | 94779.08 | 102345.76 | 96359.32 | 5.58 | ppb |
| Strontium | 86-1 | 933.67 | 944.33 | 1176.04 | 1018.01 | 13.45 | ppb |
| Strontium | 88-1 | 937.39 | 931.37 | 1178.67 | 1015.81 | 13.89 | ppb |
| Sulfur | 34-1 | 17954.70 | 18344.65 | 25345.79 | 20548.38 | 20.24 | ppb |
| Terbium | 159-1 | | | | 92 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 938.79 | 953.71 | 1144.20 | 1012.23 | 11.31 | ppb |
| Thallium | 205-1 | 930.47 | 959.39 | 1153.84 | 1014.57 | 11.97 | ppb |
| Tin | 118-1 | 933.56 | 938.46 | 1165.12 | 1012.38 | 13.07 | ppb |
| Titanium | 47-1 | 9063.22 | 9467.12 | 11927.68 | 10152.67 | 15.27 | ppb |
| Uranium | 238-1 | 940.96 | 949.55 | 1163.10 | 1017.87 | 12.36 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 939.60 | 974.72 | 1040.65 | 984.99 | 5.21 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 92 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 9356.45 | 9641.69 | 10121.88 | 9706.67 | 3.99 | ppb |
| Zirconium | 90-1 | 920.29 | 956.05 | 1171.64 | 1015.99 | 13.38 | ppb |
| Zirconium | 91-1 | 915.52 | 954.44 | 1167.07 | 1012.34 | 13.38 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 100462.72 | 98768.20 | 101763.48 | 100331.47 | 1.50 | ppb |
| Antimony | 121-1 | 0.78 | 0.75 | 0.77 | 0.76 | 2.02 | ppb |
| Arsenic | 75-2 | 0.60 | 0.32 | 0.64 | 0.52 | 33.16 | ppb |
| Barium | 135-1 | 1.85 | 1.75 | 1.85 | 1.82 | 3.11 | ppb |
| Barium | 137-1 | 1.91 | 1.94 | 1.89 | 1.91 | 1.35 | ppb |
| Beryllium | 9-1 | 0.35 | 0.31 | 0.27 | 0.31 | 12.25 | ppb |
| Bismuth | 209-1 | | | | 81 | | % |
| Bismuth | 209-2 | | | | 80 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.81 | 0.58 | 0.71 | 0.70 | 16.42 | ppb |
| Cadmium | 106-1 | 0.42 | 0.64 | 0.67 | 0.58 | 23.27 | ppb |
| Cadmium | 111-1 | 0.17 | 0.22 | 0.18 | 0.19 | 13.52 | ppb |
| Calcium | 43-1 | 493352.53 | 501911.97 | 496044.93 | 497103.15 | 0.88 | ppb |
| Calcium | 44-1 | 494638.43 | 503316.48 | 495234.79 | 497729.90 | 0.97 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.82 | 2.86 | 2.83 | 2.84 | 0.86 | ppb |
| Cobalt | 59-2 | 2.22 | 2.17 | 2.20 | 2.19 | 1.10 | ppb |
| Copper | 63-2 | 1.96 | 1.95 | 2.08 | 2.00 | 3.58 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 92 | | % |
| Holmium | 165-2 | | | | 92 | | % |
| Indium | 115-1 | | | | 85 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 250272.75 | 247201.71 | 252814.51 | 250096.32 | 1.12 | ppb |
| Iron | 56-2 | 250208.55 | 246288.06 | 253992.33 | 250162.98 | 1.54 | ppb |
| Iron | 57-2 | 250348.02 | 245099.88 | 254803.35 | 250083.75 | 1.94 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1.01 | 0.93 | 0.90 | 0.95 | 5.78 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.98 | 0.93 | 0.88 | 0.93 | 5.37 | ppb |
| Lead | 208-1 | 0.99 | 0.92 | 0.88 | 0.93 | 6.00 | ppb |
| Lithium | 6-1 | | | | 85 | | % |
| Magnesium | 24-2 | 505851.03 | 491119.84 | 505704.89 | 500891.92 | 1.69 | ppb |
| Manganese | 55-2 | 4.69 | 4.91 | 4.81 | 4.80 | 2.35 | ppb |
| Molybdenum | 94-1 | 6.97 | 7.25 | 7.08 | 7.10 | 1.97 | ppb |
| Molybdenum | 95-1 | 4.95 | 5.07 | 5.05 | 5.02 | 1.30 | ppb |
| Molybdenum | 96-1 | 5.18 | 5.24 | 5.32 | 5.24 | 1.28 | ppb |
| Molybdenum | 97-1 | 4.85 | 4.87 | 4.97 | 4.90 | 1.33 | ppb |
| Molybdenum | 98-1 | 4.78 | 4.91 | 4.81 | 4.83 | 1.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.24 | 3.06 | 3.24 | 3.18 | 3.30 | ppb |
| Phosphorus | 31-2 | -4.81 | -9.77 | -16.73 | -10.43 | | ppb |
| Potassium | 39-2 | 254420.21 | 244298.82 | 253614.29 | 250777.77 | 2.24 | ppb |
| Rhodium | 103-1 | | | | 79 | | % |
| Rhodium | 103-2 | | | | 82 | | % |
| Scandium | 45-1 | | | | 90 | | % |
| Scandium | 45-2 | | | | 93 | | % |
| Selenium | 82-1 | 0.29 | 0.12 | -0.22 | 0.06 | 415.30 | ppb |
| Selenium | 77-2 | 1.10 | 0.00 | 1.12 | 0.74 | 86.61 | ppb |
| Selenium | 78-2 | 1.26 | 0.60 | 1.62 | 1.16 | 44.82 | ppb |
| Silicon | 28-1 | 19.29 | 18.01 | 17.19 | 18.16 | 5.82 | ppb |
| Silver | 107-1 | 0.18 | 0.17 | 0.16 | 0.17 | 6.11 | ppb |
| Silver | 109-1 | 0.18 | 0.16 | 0.16 | 0.17 | 6.70 | ppb |
| Sodium | 23-2 | 499756.57 | 492767.84 | 508681.44 | 500401.95 | 1.59 | ppb |
| Strontium | 86-1 | 2.82 | 2.89 | 2.91 | 2.87 | 1.58 | ppb |
| Strontium | 88-1 | 2.86 | 2.93 | 2.88 | 2.89 | 1.25 | ppb |
| Sulfur | 34-1 | 260.37 | 264.00 | 175.17 | 233.18 | 21.56 | ppb |
| Terbium | 159-1 | | | | 90 | | % |
| Terbium | 159-2 | | | | 91 | | % |
| Thallium | 203-1 | 0.08 | 0.08 | 0.07 | 0.08 | 7.28 | ppb |
| Thallium | 205-1 | 0.09 | 0.07 | 0.07 | 0.08 | 10.71 | ppb |
| Tin | 118-1 | 0.18 | 0.19 | 0.17 | 0.18 | 5.81 | ppb |
| Titanium | 47-1 | 1.90 | 2.18 | 2.20 | 2.09 | 8.07 | ppb |
| Uranium | 238-1 | 0.05 | 0.05 | 0.03 | 0.04 | 20.55 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.27 | 0.25 | 0.29 | 0.27 | 6.67 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 92 | | % |
| Yttrium | 89-2 | | | | 92 | | % |
| Zinc | 66-2 | 5.36 | 5.50 | 5.59 | 5.48 | 2.07 | ppb |
| Zirconium | 90-1 | 1.55 | 1.57 | 1.62 | 1.58 | 2.15 | ppb |
| Zirconium | 91-1 | 1.61 | 1.69 | 1.65 | 1.65 | 2.26 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 448.73 | 468.52 | 456.27 | 457.84 | 2.18 | ppb |
| Antimony | 121-1 | 182.79 | 184.98 | 185.60 | 184.45 | 0.80 | ppb |
| Arsenic | 75-2 | 208.29 | 211.13 | 202.72 | 207.38 | 2.06 | ppb |
| Barium | 135-1 | 90.41 | 90.72 | 91.90 | 91.01 | 0.86 | ppb |
| Barium | 137-1 | 90.38 | 92.18 | 91.68 | 91.41 | 1.02 | ppb |
| Beryllium | 9-1 | 90.79 | 92.10 | 93.40 | 92.10 | 1.42 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 121.96 | 121.88 | 124.59 | 122.81 | 1.25 | ppb |
| Cadmium | 106-1 | 71.34 | 73.10 | 72.77 | 72.40 | 1.29 | ppb |
| Cadmium | 111-1 | 94.09 | 93.86 | 94.66 | 94.20 | 0.44 | ppb |
| Calcium | 43-1 | 2082.12 | 2143.46 | 2161.68 | 2129.09 | 1.96 | ppb |
| Calcium | 44-1 | 2060.98 | 2041.56 | 2117.86 | 2073.46 | 1.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 100.31 | 101.83 | 102.53 | 101.56 | 1.11 | ppb |
| Cobalt | 59-2 | 104.77 | 104.78 | 104.35 | 104.63 | 0.23 | ppb |
| Copper | 63-2 | 105.98 | 107.11 | 105.97 | 106.36 | 0.62 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 2059.09 | 2060.56 | 2052.00 | 2057.22 | 0.22 | ppb |
| Iron | 56-2 | 1993.10 | 2013.11 | 2028.72 | 2011.65 | 0.89 | ppb |
| Iron | 57-2 | 1986.54 | 2000.04 | 1959.01 | 1981.86 | 1.06 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 188.28 | 188.44 | 189.71 | 188.81 | 0.42 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 179.09 | 181.29 | 181.64 | 180.67 | 0.76 | ppb |
| Lead | 208-1 | 182.63 | 182.82 | 184.31 | 183.25 | 0.50 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | 1098.61 | 1101.51 | 1097.33 | 1099.15 | 0.19 | ppb |
| Manganese | 55-2 | 98.39 | 100.13 | 98.86 | 99.12 | 0.91 | ppb |
| Molybdenum | 94-1 | 3803.91 | 3723.24 | 3717.26 | 3748.14 | 1.29 | ppb |
| Molybdenum | 95-1 | 4686.53 | 4562.05 | 4655.55 | 4634.71 | 1.40 | ppb |
| Molybdenum | 96-1 | 4624.17 | 4515.00 | 4543.88 | 4561.02 | 1.24 | ppb |
| Molybdenum | 97-1 | 4693.17 | 4567.15 | 4628.68 | 4629.67 | 1.36 | ppb |
| Molybdenum | 98-1 | 4774.94 | 4589.66 | 4578.44 | 4647.68 | 2.37 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 104.43 | 104.71 | 105.75 | 104.96 | 0.66 | ppb |
| Phosphorus | 31-2 | -22.73 | -29.37 | -13.39 | -21.83 | | ppb |
| Potassium | 39-2 | 1832.03 | 1833.07 | 1824.38 | 1829.83 | 0.26 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 94 | | % |
| Selenium | 82-1 | 190.13 | 193.30 | 189.48 | 190.97 | 1.07 | ppb |
| Selenium | 77-2 | 169.49 | 194.33 | 200.97 | 188.26 | 8.82 | ppb |
| Selenium | 78-2 | 203.70 | 199.30 | 202.62 | 201.87 | 1.14 | ppb |
| Silicon | 28-1 | 2.34 | 2.99 | 3.40 | 2.91 | 18.46 | ppb |
| Silver | 107-1 | 47.55 | 47.68 | 48.37 | 47.87 | 0.92 | ppb |
| Silver | 109-1 | 47.84 | 48.20 | 48.69 | 48.24 | 0.88 | ppb |
| Sodium | 23-2 | 1969.73 | 1996.21 | 1979.99 | 1981.98 | 0.67 | ppb |
| Strontium | 86-1 | 509.17 | 486.03 | 490.87 | 495.36 | 2.46 | ppb |
| Strontium | 88-1 | 493.97 | 492.74 | 485.83 | 490.85 | 0.89 | ppb |
| Sulfur | 34-1 | 68.39 | 143.39 | 72.18 | 94.65 | 44.64 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 195.02 | 195.73 | 196.50 | 195.75 | 0.38 | ppb |
| Thallium | 205-1 | 188.84 | 192.31 | 190.81 | 190.66 | 0.91 | ppb |
| Tin | 118-1 | 0.09 | 0.10 | 0.11 | 0.10 | 12.54 | ppb |
| Titanium | 47-1 | 0.42 | 0.44 | 0.42 | 0.42 | 3.07 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.99 | ppb |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 98.35 | 98.76 | 97.80 | 98.30 | 0.49 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 94 | | % |
| Zinc | 66-2 | 197.74 | 202.47 | 202.81 | 201.01 | 1.41 | ppb |
| Zirconium | 90-1 | 0.02 | 0.01 | 0.01 | 0.01 | 13.92 | ppb |
| Zirconium | 91-1 | 0.12 | 0.14 | 0.12 | 0.13 | 8.62 | ppb |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.39 | 0.64 | 0.65 | 0.56 | 26.77 | ppb |
| Antimony | 121-1 | 0.09 | 0.08 | 0.08 | 0.08 | 5.56 | ppb |
| Arsenic | 75-2 | -0.04 | -0.06 | -0.04 | -0.05 | | ppb |
| Barium | 135-1 | 0.02 | 0.04 | 0.03 | 0.03 | 27.80 | ppb |
| Barium | 137-1 | 0.05 | 0.05 | 0.05 | 0.05 | 3.36 | ppb |
| Beryllium | 9-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | -0.02 | 0.11 | 0.04 | 172.87 | ppb |
| Cadmium | 106-1 | -0.60 | 0.03 | -0.56 | -0.37 | | ppb |
| Cadmium | 111-1 | -0.04 | 0.02 | -0.05 | -0.03 | | ppb |
| Calcium | 43-1 | 0.99 | -0.17 | 0.38 | 0.40 | 144.34 | ppb |
| Calcium | 44-1 | 3.21 | 3.81 | 2.77 | 3.27 | 16.08 | 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 | 991.43 | ppb |
| Cobalt | 59-2 | -0.03 | -0.04 | -0.03 | -0.03 | | ppb |
| Copper | 63-2 | 0.05 | 0.04 | 0.00 | 0.03 | 89.86 | 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 | | | | 96 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | -0.22 | 0.14 | -0.18 | -0.09 | | ppb |
| Iron | 56-2 | 0.05 | -0.20 | 0.10 | -0.01 | | ppb |
| Iron | 57-2 | -0.81 | -1.18 | -1.24 | -1.07 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.03 | 0.04 | 0.03 | 0.03 | 19.07 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.03 | 0.02 | 0.03 | 0.03 | 20.24 | ppb |
| Lead | 208-1 | 0.02 | 0.03 | 0.03 | 0.03 | 3.64 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | -0.92 | 0.21 | 0.19 | -0.18 | | ppb |
| Manganese | 55-2 | 0.02 | -0.02 | 0.02 | 0.01 | 245.91 | ppb |
| Molybdenum | 94-1 | 0.33 | 0.31 | 0.30 | 0.31 | 4.65 | ppb |
| Molybdenum | 95-1 | 0.40 | 0.35 | 0.30 | 0.35 | 14.19 | ppb |
| Molybdenum | 96-1 | 0.36 | 0.35 | 0.33 | 0.35 | 4.15 | ppb |
| Molybdenum | 97-1 | 0.35 | 0.31 | 0.28 | 0.31 | 10.87 | ppb |
| Molybdenum | 98-1 | 0.38 | 0.36 | 0.32 | 0.35 | 9.16 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.42 | -0.43 | -0.45 | -0.43 | | ppb |
| Phosphorus | 31-2 | -17.17 | -27.72 | -19.63 | -21.51 | | ppb |
| Potassium | 39-2 | 4.69 | 5.89 | 5.93 | 5.50 | 12.79 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 94 | | % |
| Scandium | 45-2 | | | | 93 | | % |
| Selenium | 82-1 | 0.30 | -0.18 | -0.01 | 0.03 | 741.01 | ppb |
| Selenium | 77-2 | 1.08 | 0.00 | 1.11 | 0.73 | 86.63 | ppb |
| Selenium | 78-2 | -0.07 | 0.92 | -0.71 | 0.04 | 1848.18 | ppb |
| Silicon | 28-1 | 0.40 | 2.25 | 0.11 | 0.92 | 126.40 | ppb |
| Silver | 107-1 | 0.03 | 0.04 | 0.05 | 0.04 | 23.21 | ppb |
| Silver | 109-1 | 0.03 | 0.05 | 0.05 | 0.05 | 28.75 | ppb |
| Sodium | 23-2 | 38.16 | 39.02 | 40.62 | 39.26 | 3.18 | ppb |
| Strontium | 86-1 | 0.01 | 0.03 | 0.01 | 0.02 | 68.09 | ppb |
| Strontium | 88-1 | 0.03 | 0.03 | 0.02 | 0.03 | 8.46 | ppb |
| Sulfur | 34-1 | 82.40 | 517.34 | 38.66 | 212.80 | 124.36 | ppb |
| Terbium | 159-1 | | | | 95 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.01 | 0.02 | 29.44 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 11.02 | ppb |
| Tin | 118-1 | 0.05 | 0.05 | 0.04 | 0.05 | 11.57 | ppb |
| Titanium | 47-1 | -0.01 | 0.02 | 0.01 | 0.01 | 301.52 | ppb |
| Uranium | 238-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.01 | 0.00 | 110.56 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 95 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | -0.04 | 0.04 | -0.10 | -0.04 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.00 | 0.01 | 65.45 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 94326.11 | 91573.14 | 94461.41 | 93453.55 | 1.74 | ppb |
| Antimony | 121-1 | 1.09 | 1.14 | 1.15 | 1.13 | 3.19 | ppb |
| Arsenic | 75-2 | 0.31 | 0.33 | 0.40 | 0.35 | 14.14 | ppb |
| Barium | 135-1 | 1.23 | 1.29 | 1.37 | 1.30 | 5.16 | ppb |
| Barium | 137-1 | 1.35 | 1.35 | 1.33 | 1.35 | 0.95 | ppb |
| Beryllium | 9-1 | 0.22 | 0.20 | 0.22 | 0.21 | 3.84 | ppb |
| Bismuth | 209-1 | | | | 87 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 17.73 | 17.13 | 17.54 | 17.47 | 1.76 | ppb |
| Cadmium | 106-1 | -1.21 | -1.76 | -0.28 | -1.09 | | ppb |
| Cadmium | 111-1 | 0.63 | 0.55 | 0.66 | 0.62 | 9.24 | ppb |
| Calcium | 43-1 | 106866.51 | 109858.55 | 107334.67 | 108019.91 | 1.49 | ppb |
| Calcium | 44-1 | 105397.60 | 109006.41 | 105573.77 | 106659.26 | 1.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 21.10 | 20.59 | 21.34 | 21.01 | 1.81 | ppb |
| Cobalt | 59-2 | 1.24 | 1.22 | 1.18 | 1.21 | 2.53 | ppb |
| Copper | 63-2 | 8.71 | 8.58 | 8.56 | 8.62 | 0.94 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 95 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 91 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 106283.57 | 101435.56 | 106387.52 | 104702.22 | 2.70 | ppb |
| Iron | 56-2 | 107747.44 | 102247.12 | 105835.06 | 105276.54 | 2.65 | ppb |
| Iron | 57-2 | 107635.76 | 103175.02 | 107068.96 | 105959.92 | 2.29 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 5.72 | 4.89 | 4.68 | 5.10 | 10.77 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5.32 | 4.55 | 4.22 | 4.69 | 11.98 | ppb |
| Lead | 208-1 | 5.41 | 4.64 | 4.35 | 4.80 | 11.40 | ppb |
| Lithium | 6-1 | | | | 90 | | % |
| Magnesium | 24-2 | 99149.91 | 94073.61 | 96555.26 | 96592.93 | 2.63 | ppb |
| Manganese | 55-2 | 7.87 | 7.81 | 8.17 | 7.95 | 2.41 | ppb |
| Molybdenum | 94-1 | 1555.33 | 1517.94 | 1542.54 | 1538.60 | 1.24 | ppb |
| Molybdenum | 95-1 | 1886.35 | 1855.78 | 1891.36 | 1877.83 | 1.03 | ppb |
| Molybdenum | 96-1 | 1873.43 | 1847.97 | 1915.53 | 1878.98 | 1.82 | ppb |
| Molybdenum | 97-1 | 1917.53 | 1886.37 | 1892.19 | 1898.69 | 0.87 | ppb |
| Molybdenum | 98-1 | 1942.11 | 1860.86 | 1905.69 | 1902.89 | 2.14 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 5.24 | 5.24 | 5.22 | 5.23 | 0.18 | ppb |
| Phosphorus | 31-2 | 109910.09 | 104948.15 | 107949.71 | 107602.65 | 2.32 | ppb |
| Potassium | 39-2 | 100427.98 | 98470.70 | 100867.32 | 99922.00 | 1.28 | ppb |
| Rhodium | 103-1 | | | | 87 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 91 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 0.06 | -0.16 | 0.35 | 0.08 | 309.46 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.59 | 0.24 | 0.91 | 0.58 | 56.92 | ppb |
| Silicon | 28-1 | 32.64 | 34.33 | 33.41 | 33.46 | 2.53 | ppb |
| Silver | 107-1 | 0.06 | 0.05 | 0.04 | 0.05 | 17.99 | ppb |
| Silver | 109-1 | 0.07 | 0.05 | 0.04 | 0.05 | 28.51 | ppb |
| Sodium | 23-2 | 105703.29 | 101723.31 | 105104.63 | 104177.07 | 2.06 | ppb |
| Strontium | 86-1 | 32.14 | 31.79 | 32.74 | 32.23 | 1.50 | ppb |
| Strontium | 88-1 | 32.35 | 31.80 | 32.64 | 32.26 | 1.31 | ppb |
| Sulfur | 34-1 | 92659.92 | 92718.51 | 91513.12 | 92297.18 | 0.74 | ppb |
| Terbium | 159-1 | | | | 95 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 0.11 | 0.11 | 0.09 | 0.10 | 12.79 | ppb |
| Thallium | 205-1 | 0.11 | 0.11 | 0.10 | 0.11 | 4.87 | ppb |
| Tin | 118-1 | 0.20 | 0.19 | 0.20 | 0.20 | 3.49 | ppb |
| Titanium | 47-1 | 2000.14 | 2054.62 | 2015.20 | 2023.32 | 1.39 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.79 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.12 | 0.13 | 0.19 | 0.14 | 24.93 | 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 | 11.52 | 11.13 | 11.91 | 11.52 | 3.38 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.83 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.55 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90011.65 | 88331.15 | 87003.36 | 88448.72 | 1.70 | ppb |
| Antimony | 121-1 | 19.98 | 20.30 | 20.05 | 20.11 | 0.84 | ppb |
| Arsenic | 75-2 | 20.67 | 20.42 | 20.40 | 20.50 | 0.74 | ppb |
| Barium | 135-1 | 19.88 | 20.25 | 20.21 | 20.11 | 0.99 | ppb |
| Barium | 137-1 | 20.12 | 20.56 | 20.09 | 20.26 | 1.30 | ppb |
| Beryllium | 9-1 | 20.37 | 20.02 | 19.86 | 20.09 | 1.30 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 30.85 | 30.53 | 30.80 | 30.72 | 0.56 | ppb |
| Cadmium | 106-1 | 12.53 | 11.86 | 13.81 | 12.74 | 7.78 | ppb |
| Cadmium | 111-1 | 18.61 | 18.91 | 18.71 | 18.74 | 0.81 | ppb |
| Calcium | 43-1 | 104893.98 | 105945.03 | 106375.55 | 105738.19 | 0.72 | ppb |
| Calcium | 44-1 | 104985.77 | 104066.72 | 105451.21 | 104834.57 | 0.67 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 40.81 | 40.06 | 38.89 | 39.92 | 2.42 | ppb |
| Cobalt | 59-2 | 22.13 | 21.71 | 21.53 | 21.79 | 1.40 | ppb |
| Copper | 63-2 | 29.11 | 28.29 | 28.22 | 28.54 | 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 | | | | 97 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 101807.30 | 100301.46 | 99235.28 | 100448.01 | 1.29 | ppb |
| Iron | 56-2 | 102391.56 | 100176.42 | 99462.35 | 100676.77 | 1.52 | ppb |
| Iron | 57-2 | 101814.99 | 101342.69 | 99397.57 | 100851.75 | 1.27 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 23.32 | 24.08 | 24.04 | 23.81 | 1.79 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 22.51 | 22.89 | 23.17 | 22.86 | 1.45 | ppb |
| Lead | 208-1 | 22.65 | 23.11 | 23.11 | 22.95 | 1.16 | ppb |
| Lithium | 6-1 | | | | 89 | | % |
| Magnesium | 24-2 | 92560.28 | 91568.99 | 89337.26 | 91155.51 | 1.81 | ppb |
| Manganese | 55-2 | 27.44 | 27.70 | 27.27 | 27.47 | 0.78 | ppb |
| Molybdenum | 94-1 | 1518.38 | 1506.06 | 1546.70 | 1523.71 | 1.37 | ppb |
| Molybdenum | 95-1 | 1863.45 | 1807.57 | 1884.77 | 1851.93 | 2.15 | ppb |
| Molybdenum | 96-1 | 1827.54 | 1787.34 | 1848.89 | 1821.25 | 1.72 | ppb |
| Molybdenum | 97-1 | 1864.48 | 1841.56 | 1851.25 | 1852.43 | 0.62 | ppb |
| Molybdenum | 98-1 | 1867.81 | 1839.30 | 1891.61 | 1866.24 | 1.40 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 24.79 | 25.33 | 24.67 | 24.93 | 1.42 | ppb |
| Phosphorus | 31-2 | 103352.19 | 102846.65 | 102070.51 | 102756.45 | 0.63 | ppb |
| Potassium | 39-2 | 96571.12 | 94120.21 | 94226.82 | 94972.71 | 1.46 | ppb |
| Rhodium | 103-1 | | | | 89 | | % |
| Rhodium | 103-2 | | | | 93 | | % |
| Scandium | 45-1 | | | | 94 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 19.49 | 19.12 | 19.71 | 19.44 | 1.52 | ppb |
| Selenium | 77-2 | 30.34 | 20.25 | 23.31 | 24.63 | 21.01 | ppb |
| Selenium | 78-2 | 21.40 | 14.96 | 19.50 | 18.62 | 17.78 | ppb |
| Silicon | 28-1 | 31.39 | 32.56 | 32.56 | 32.17 | 2.09 | ppb |
| Silver | 107-1 | 17.48 | 17.74 | 17.66 | 17.62 | 0.77 | ppb |
| Silver | 109-1 | 17.46 | 18.19 | 17.85 | 17.83 | 2.05 | ppb |
| Sodium | 23-2 | 99788.17 | 99484.91 | 98067.35 | 99113.48 | 0.93 | ppb |
| Strontium | 86-1 | 31.53 | 31.18 | 32.09 | 31.60 | 1.46 | ppb |
| Strontium | 88-1 | 31.66 | 31.55 | 32.28 | 31.83 | 1.24 | ppb |
| Sulfur | 34-1 | 87066.17 | 87867.19 | 88113.52 | 87682.29 | 0.62 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 19.50 | 19.93 | 19.88 | 19.77 | 1.19 | ppb |
| Thallium | 205-1 | 19.44 | 20.04 | 19.94 | 19.80 | 1.62 | ppb |
| Tin | 118-1 | 0.12 | 0.12 | 0.10 | 0.11 | 9.22 | ppb |
| Titanium | 47-1 | 1972.89 | 1993.39 | 1984.35 | 1983.55 | 0.52 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.62 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 20.42 | 19.99 | 20.03 | 20.15 | 1.17 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 31.83 | 30.85 | 30.88 | 31.19 | 1.79 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.85 | ppb |
| Zirconium | 91-1 | 0.03 | 0.01 | 0.01 | 0.02 | 49.44 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49299.05 | 47914.83 | 48137.14 | 48450.34 | 1.53 | ppb |
| Antimony | 121-1 | 472.30 | 474.21 | 477.75 | 474.76 | 0.58 | ppb |
| Arsenic | 75-2 | 524.57 | 498.68 | 511.27 | 511.51 | 2.53 | ppb |
| Barium | 135-1 | 2446.10 | 2375.90 | 2390.01 | 2404.00 | 1.54 | ppb |
| Barium | 137-1 | 2376.13 | 2341.24 | 2400.17 | 2372.51 | 1.25 | ppb |
| Beryllium | 9-1 | 481.86 | 489.38 | 488.23 | 486.49 | 0.83 | ppb |
| Bismuth | 209-1 | | | | 86 | | % |
| Bismuth | 209-2 | | | | 85 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 462.78 | 457.11 | 470.77 | 463.55 | 1.48 | ppb |
| Cadmium | 106-1 | 459.79 | 453.43 | 471.56 | 461.59 | 1.99 | ppb |
| Cadmium | 111-1 | 459.24 | 456.68 | 463.96 | 459.96 | 0.80 | ppb |
| Calcium | 43-1 | 250145.51 | 257537.61 | 256578.83 | 254753.98 | 1.58 | ppb |
| Calcium | 44-1 | 246811.14 | 256415.63 | 252893.89 | 252040.22 | 1.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 512.12 | 510.12 | 509.68 | 510.64 | 0.25 | ppb |
| Cobalt | 59-2 | 502.22 | 514.79 | 503.14 | 506.72 | 1.38 | ppb |
| Copper | 63-2 | 4856.28 | 4931.97 | 4982.78 | 4923.67 | 1.29 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 93 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 89 | | % |
| Indium | 115-2 | | | | 91 | | % |
| Iron | 54-2 | 122027.43 | 120973.06 | 122255.68 | 121752.06 | 0.56 | ppb |
| Iron | 56-2 | 120455.89 | 121916.78 | 122440.03 | 121604.23 | 0.85 | ppb |
| Iron | 57-2 | 120985.19 | 122105.82 | 119969.00 | 121020.00 | 0.88 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2364.04 | 2396.31 | 2406.81 | 2389.06 | 0.93 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2383.97 | 2366.93 | 2400.66 | 2383.85 | 0.71 | ppb |
| Lead | 208-1 | 2387.65 | 2378.51 | 2402.35 | 2389.50 | 0.50 | ppb |
| Lithium | 6-1 | | | | 85 | | % |
| Magnesium | 24-2 | 237091.47 | 233685.22 | 238101.77 | 236292.82 | 0.98 | ppb |
| Manganese | 55-2 | 5097.41 | 5129.75 | 5043.33 | 5090.16 | 0.86 | ppb |
| Molybdenum | 94-1 | 4755.45 | 4807.80 | 4691.56 | 4751.60 | 1.23 | ppb |
| Molybdenum | 95-1 | 4719.44 | 4830.82 | 4732.32 | 4760.86 | 1.28 | ppb |
| Molybdenum | 96-1 | 4697.40 | 4830.60 | 4758.64 | 4762.21 | 1.40 | ppb |
| Molybdenum | 97-1 | 4755.78 | 4806.54 | 4732.86 | 4765.06 | 0.79 | ppb |
| Molybdenum | 98-1 | 4686.67 | 4729.46 | 4713.27 | 4709.80 | 0.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 478.98 | 480.56 | 477.47 | 479.00 | 0.32 | ppb |
| Phosphorus | 31-2 | 10521.02 | 10095.80 | 10200.11 | 10272.31 | 2.16 | ppb |
| Potassium | 39-2 | 120365.02 | 119092.58 | 118367.18 | 119274.93 | 0.85 | ppb |
| Rhodium | 103-1 | | | | 85 | | % |
| Rhodium | 103-2 | | | | 86 | | % |
| Scandium | 45-1 | | | | 91 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 455.76 | 466.21 | 454.49 | 458.82 | 1.40 | ppb |
| Selenium | 77-2 | 502.89 | 484.44 | 515.30 | 500.88 | 3.10 | ppb |
| Selenium | 78-2 | 518.23 | 485.94 | 499.81 | 501.33 | 3.23 | ppb |
| Silicon | 28-1 | 485.88 | 489.80 | 484.76 | 486.81 | 0.54 | ppb |
| Silver | 107-1 | 451.62 | 446.01 | 466.00 | 454.54 | 2.27 | ppb |
| Silver | 109-1 | 458.96 | 455.52 | 468.36 | 460.95 | 1.44 | ppb |
| Sodium | 23-2 | 246919.52 | 243081.65 | 243875.93 | 244625.70 | 0.83 | ppb |
| Strontium | 86-1 | 474.85 | 478.11 | 470.86 | 474.61 | 0.76 | ppb |
| Strontium | 88-1 | 469.66 | 478.91 | 478.56 | 475.71 | 1.10 | ppb |
| Sulfur | 34-1 | 9225.12 | 9520.88 | 9026.84 | 9257.61 | 2.69 | ppb |
| Terbium | 159-1 | | | | 93 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 475.29 | 487.06 | 494.18 | 485.51 | 1.96 | ppb |
| Thallium | 205-1 | 475.64 | 492.40 | 484.30 | 484.11 | 1.73 | ppb |
| Tin | 118-1 | 471.80 | 474.31 | 475.66 | 473.93 | 0.41 | ppb |
| Titanium | 47-1 | 4842.23 | 4789.42 | 4801.10 | 4810.92 | 0.58 | ppb |
| Uranium | 238-1 | 494.79 | 485.53 | 495.52 | 491.95 | 1.13 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 509.21 | 508.00 | 507.64 | 508.28 | 0.16 | 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 | 4998.56 | 4934.95 | 5005.34 | 4979.62 | 0.78 | ppb |
| Zirconium | 90-1 | 478.91 | 481.06 | 475.39 | 478.46 | 0.60 | ppb |
| Zirconium | 91-1 | 485.43 | 490.63 | 474.25 | 483.44 | 1.73 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.63 | 1.51 | 1.65 | 1.60 | 4.63 | ppb |
| Antimony | 121-1 | 0.14 | 0.12 | 0.11 | 0.12 | 10.96 | ppb |
| Arsenic | 75-2 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Barium | 135-1 | 0.05 | 0.05 | 0.01 | 0.04 | 53.41 | ppb |
| Barium | 137-1 | 0.04 | 0.03 | 0.02 | 0.03 | 32.39 | ppb |
| Beryllium | 9-1 | 0.03 | 0.03 | 0.02 | 0.03 | 10.67 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | -0.06 | 0.01 | 0.00 | | ppb |
| Cadmium | 106-1 | 0.39 | -0.71 | -0.47 | -0.27 | | ppb |
| Cadmium | 111-1 | 0.05 | -0.04 | -0.02 | -0.01 | | ppb |
| Calcium | 43-1 | 7.82 | 6.44 | 3.94 | 6.07 | 32.43 | ppb |
| Calcium | 44-1 | 12.08 | 8.97 | 8.18 | 9.74 | 21.19 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.06 | 0.02 | -0.02 | | ppb |
| Cobalt | 59-2 | -0.05 | -0.05 | -0.05 | -0.05 | | ppb |
| Copper | 63-2 | 0.15 | 0.20 | 0.12 | 0.16 | 25.29 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 2.54 | 3.51 | 3.00 | 3.01 | 16.10 | ppb |
| Iron | 56-2 | 3.33 | 3.61 | 3.23 | 3.39 | 5.88 | ppb |
| Iron | 57-2 | 2.19 | 2.45 | 2.43 | 2.36 | 6.08 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.23 | 0.22 | 0.20 | 0.22 | 5.82 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.25 | 0.22 | 0.21 | 0.23 | 7.90 | ppb |
| Lead | 208-1 | 0.25 | 0.22 | 0.20 | 0.22 | 9.49 | ppb |
| Lithium | 6-1 | | | | 92 | | % |
| Magnesium | 24-2 | 0.96 | 1.33 | 1.66 | 1.32 | 26.29 | ppb |
| Manganese | 55-2 | 0.10 | 0.04 | 0.10 | 0.08 | 39.63 | ppb |
| Molybdenum | 94-1 | 0.25 | 0.19 | 0.18 | 0.21 | 17.67 | ppb |
| Molybdenum | 95-1 | 0.21 | 0.19 | 0.13 | 0.18 | 23.04 | ppb |
| Molybdenum | 96-1 | 0.23 | 0.16 | 0.15 | 0.18 | 22.58 | ppb |
| Molybdenum | 97-1 | 0.21 | 0.16 | 0.15 | 0.17 | 20.87 | ppb |
| Molybdenum | 98-1 | 0.19 | 0.17 | 0.16 | 0.17 | 10.83 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.47 | -0.40 | -0.47 | -0.45 | | ppb |
| Phosphorus | 31-2 | -22.24 | -17.08 | -18.17 | -19.16 | | ppb |
| Potassium | 39-2 | 34.55 | 31.39 | 29.19 | 31.71 | 8.49 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | -0.06 | 0.28 | 0.09 | 0.10 | 168.62 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.10 | 0.21 | -0.41 | -0.10 | | ppb |
| Silicon | 28-1 | 1.21 | 0.37 | 0.99 | 0.86 | 50.59 | ppb |
| Silver | 107-1 | 0.06 | 0.05 | 0.06 | 0.06 | 5.06 | ppb |
| Silver | 109-1 | 0.05 | 0.06 | 0.06 | 0.06 | 8.15 | ppb |
| Sodium | 23-2 | 57.65 | 58.06 | 53.88 | 56.53 | 4.07 | ppb |
| Strontium | 86-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Strontium | 88-1 | -0.02 | -0.02 | -0.03 | -0.02 | | ppb |
| Sulfur | 34-1 | -260.77 | -424.59 | -219.59 | -301.65 | | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 0.07 | 0.06 | 0.07 | 0.07 | 7.97 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.07 | 0.07 | 9.33 | ppb |
| Tin | 118-1 | 0.07 | 0.06 | 0.05 | 0.06 | 14.94 | ppb |
| Titanium | 47-1 | 0.17 | 0.08 | 0.09 | 0.11 | 45.07 | ppb |
| Uranium | 238-1 | 0.01 | 0.00 | 0.00 | 0.00 | 126.37 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 275.34 | 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 | 0.22 | 0.21 | 0.02 | 0.15 | 73.00 | ppb |
| Zirconium | 90-1 | 0.02 | 0.01 | 0.01 | 0.01 | 39.70 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.02 | 0.02 | 21.42 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 31772.22 | 31091.61 | 31305.70 | 31389.84 | 1.11 | ppb |
| Antimony | 121-1 | 1.42 | 1.46 | 1.46 | 1.45 | 1.45 | ppb |
| Arsenic | 75-2 | 67.23 | 72.14 | 67.55 | 68.97 | 3.98 | ppb |
| Barium | 135-1 | 83.39 | 82.04 | 82.29 | 82.57 | 0.87 | ppb |
| Barium | 137-1 | 83.92 | 82.81 | 84.23 | 83.65 | 0.89 | ppb |
| Beryllium | 9-1 | 0.44 | 0.42 | 0.43 | 0.43 | 1.80 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.01 | 0.94 | 1.09 | 1.01 | 7.53 | ppb |
| Cadmium | 106-1 | 0.57 | 0.38 | 0.61 | 0.52 | 23.16 | ppb |
| Cadmium | 111-1 | 0.72 | 0.69 | 0.71 | 0.71 | 2.44 | ppb |
| Calcium | 43-1 | 4997.44 | 5174.56 | 5118.28 | 5096.76 | 1.78 | ppb |
| Calcium | 44-1 | 5127.58 | 5115.22 | 5054.49 | 5099.09 | 0.77 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 56.73 | 55.79 | 54.33 | 55.62 | 2.18 | ppb |
| Cobalt | 59-2 | 42.31 | 42.13 | 41.13 | 41.86 | 1.52 | ppb |
| Copper | 63-2 | 139.71 | 137.46 | 135.96 | 137.71 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 54-2 | 96353.47 | 95371.62 | 92504.06 | 94743.05 | 2.11 | ppb |
| Iron | 56-2 | 97503.17 | 95726.32 | 93310.45 | 95513.31 | 2.20 | ppb |
| Iron | 57-2 | 96477.39 | 95629.51 | 92223.27 | 94776.72 | 2.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 27.83 | 27.72 | 27.93 | 27.83 | 0.38 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26.47 | 26.00 | 26.15 | 26.20 | 0.92 | ppb |
| Lead | 208-1 | 26.90 | 26.68 | 26.95 | 26.84 | 0.53 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 17135.67 | 16705.83 | 16391.23 | 16744.24 | 2.23 | ppb |
| Manganese | 55-2 | 922.52 | 912.78 | 889.38 | 908.23 | 1.88 | ppb |
| Molybdenum | 94-1 | 4.44 | 4.49 | 4.45 | 4.46 | 0.52 | ppb |
| Molybdenum | 95-1 | 3.20 | 3.14 | 3.22 | 3.18 | 1.32 | ppb |
| Molybdenum | 96-1 | 3.41 | 3.44 | 3.31 | 3.39 | 1.99 | ppb |
| Molybdenum | 97-1 | 3.15 | 3.18 | 3.21 | 3.18 | 0.91 | ppb |
| Molybdenum | 98-1 | 3.16 | 3.19 | 3.18 | 3.18 | 0.49 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 145.84 | 144.59 | 143.74 | 144.72 | 0.73 | ppb |
| Phosphorus | 31-2 | 1637.09 | 1734.66 | 1660.31 | 1677.35 | 3.04 | ppb |
| Potassium | 39-2 | 1202.90 | 1193.59 | 1169.39 | 1188.63 | 1.46 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 3.19 | 3.34 | 3.06 | 3.20 | 4.42 | ppb |
| Selenium | 77-2 | 21.34 | 39.01 | 30.01 | 30.12 | 29.34 | ppb |
| Selenium | 78-2 | 11.41 | 7.33 | 8.51 | 9.08 | 23.15 | ppb |
| Silicon | 28-1 | 6767.23 | 7061.13 | 7038.37 | 6955.58 | 2.35 | ppb |
| Silver | 107-1 | 0.52 | 0.49 | 0.49 | 0.50 | 4.26 | ppb |
| Silver | 109-1 | 0.52 | 0.49 | 0.51 | 0.51 | 2.46 | ppb |
| Sodium | 23-2 | 199.71 | 195.35 | 188.83 | 194.63 | 2.81 | ppb |
| Strontium | 86-1 | 45.61 | 46.48 | 47.22 | 46.43 | 1.74 | ppb |
| Strontium | 88-1 | 46.97 | 47.68 | 49.57 | 48.07 | 2.80 | ppb |
| Sulfur | 34-1 | -741.03 | -539.45 | -504.14 | -594.87 | | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.46 | 0.56 | 0.70 | 0.57 | 20.38 | ppb |
| Thallium | 205-1 | 0.48 | 0.54 | 0.71 | 0.58 | 20.58 | ppb |
| Tin | 118-1 | 0.19 | 0.20 | 0.22 | 0.20 | 9.56 | ppb |
| Titanium | 47-1 | 18.74 | 19.13 | 19.49 | 19.12 | 1.97 | ppb |
| Uranium | 238-1 | 1.26 | 1.23 | 1.26 | 1.25 | 1.63 | ppb |

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 61.32 | 60.37 | 59.22 | 60.30 | 1.74 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 237.61 | 235.40 | 232.51 | 235.18 | 1.09 | ppb |
| Zirconium | 90-1 | 1.05 | 1.06 | 1.09 | 1.07 | 1.79 | ppb |
| Zirconium | 91-1 | 1.08 | 1.10 | 1.09 | 1.09 | 0.89 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4927.56 | 5512.25 | 5142.84 | 5194.22 | 5.69 | ppb |
| Antimony | 121-1 | 5.74 | 5.85 | 5.85 | 5.81 | 1.09 | ppb |
| Arsenic | 75-2 | 340.88 | 386.26 | 360.61 | 362.58 | 6.27 | ppb |
| Barium | 135-1 | 58.17 | 57.79 | 58.80 | 58.26 | 0.87 | ppb |
| Barium | 137-1 | 57.85 | 58.51 | 58.73 | 58.36 | 0.79 | ppb |
| Beryllium | 9-1 | 0.49 | 0.48 | 0.48 | 0.48 | 2.04 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 94 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.81 | 0.76 | 0.90 | 0.82 | 8.31 | ppb |
| Cadmium | 106-1 | 1.19 | 1.44 | 1.85 | 1.49 | 22.29 | ppb |
| Cadmium | 111-1 | 0.47 | 0.48 | 0.48 | 0.48 | 1.70 | ppb |
| Calcium | 43-1 | 65946.99 | 66572.26 | 65510.28 | 66009.84 | 0.81 | ppb |
| Calcium | 44-1 | 64945.35 | 64260.78 | 65114.71 | 64773.61 | 0.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6.20 | 7.20 | 6.69 | 6.69 | 7.51 | ppb |
| Cobalt | 59-2 | 41.12 | 46.29 | 43.48 | 43.63 | 5.93 | ppb |
| Copper | 63-2 | 191.98 | 217.87 | 204.42 | 204.76 | 6.32 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 79819.73 | 88632.78 | 82846.51 | 83766.34 | 5.35 | ppb |
| Iron | 56-2 | 80595.18 | 91717.44 | 84721.56 | 85678.06 | 6.56 | ppb |
| Iron | 57-2 | 80754.91 | 90866.07 | 83829.90 | 85150.29 | 6.09 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 50.94 | 50.17 | 50.52 | 50.54 | 0.76 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 47.81 | 48.11 | 48.93 | 48.28 | 1.20 | ppb |
| Lead | 208-1 | 49.02 | 48.77 | 49.21 | 49.00 | 0.45 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 18410.34 | 20848.74 | 19704.91 | 19654.66 | 6.21 | ppb |
| Manganese | 55-2 | 1128.14 | 1303.87 | 1176.99 | 1203.00 | 7.54 | ppb |
| Molybdenum | 94-1 | 5.66 | 5.52 | 5.59 | 5.59 | 1.24 | ppb |
| Molybdenum | 95-1 | 3.14 | 3.13 | 3.08 | 3.12 | 1.10 | ppb |
| Molybdenum | 96-1 | 3.43 | 3.39 | 3.46 | 3.43 | 1.02 | ppb |
| Molybdenum | 97-1 | 3.08 | 3.11 | 3.09 | 3.09 | 0.51 | ppb |
| Molybdenum | 98-1 | 3.15 | 3.07 | 3.21 | 3.14 | 2.25 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 174.95 | 198.25 | 185.79 | 186.33 | 6.26 | ppb |
| Phosphorus | 31-2 | 1492.32 | 1699.01 | 1568.18 | 1586.50 | 6.59 | ppb |
| Potassium | 39-2 | 1581.36 | 1772.71 | 1664.31 | 1672.79 | 5.74 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 5.39 | 4.98 | 5.36 | 5.24 | 4.37 | ppb |
| Selenium | 77-2 | 27.68 | 18.57 | 21.68 | 22.64 | 20.45 | ppb |
| Selenium | 78-2 | 8.90 | 10.04 | 10.43 | 9.79 | 8.12 | ppb |
| Silicon | 28-1 | 4086.70 | 4159.91 | 4143.58 | 4130.06 | 0.93 | ppb |
| Silver | 107-1 | 2.11 | 2.12 | 2.19 | 2.14 | 1.87 | ppb |
| Silver | 109-1 | 2.13 | 2.18 | 2.19 | 2.16 | 1.52 | ppb |
| Sodium | 23-2 | 200.05 | 244.51 | 221.45 | 222.00 | 10.02 | ppb |
| Strontium | 86-1 | 688.57 | 693.75 | 678.53 | 686.95 | 1.13 | ppb |
| Strontium | 88-1 | 686.74 | 678.08 | 688.72 | 684.51 | 0.83 | ppb |
| Sulfur | 34-1 | 29094.61 | 29767.93 | 29458.51 | 29440.35 | 1.14 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 0.28 | 0.34 | 0.39 | 0.34 | 15.74 | ppb |
| Thallium | 205-1 | 0.27 | 0.32 | 0.38 | 0.33 | 16.95 | ppb |
| Tin | 118-1 | 0.15 | 0.19 | 0.19 | 0.18 | 12.04 | ppb |
| Titanium | 47-1 | 4.35 | 4.44 | 7.21 | 5.33 | 30.47 | ppb |
| Uranium | 238-1 | 0.94 | 0.93 | 0.95 | 0.94 | 0.68 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 6.94 | 7.70 | 7.34 | 7.32 | 5.20 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 121.79 | 139.76 | 129.61 | 130.39 | 6.91 | ppb |
| Zirconium | 90-1 | 1.69 | 1.67 | 1.67 | 1.67 | 0.75 | ppb |
| Zirconium | 91-1 | 1.85 | 1.79 | 1.83 | 1.82 | 1.63 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 18389.25 | 17981.25 | 17201.67 | 17857.39 | 3.38 | ppb |
| Antimony | 121-1 | 0.80 | 0.79 | 0.80 | 0.79 | 0.45 | ppb |
| Arsenic | 75-2 | 10.54 | 9.85 | 9.59 | 9.99 | 4.91 | ppb |
| Barium | 135-1 | 45.06 | 46.25 | 45.77 | 45.69 | 1.31 | ppb |
| Barium | 137-1 | 46.33 | 46.06 | 45.98 | 46.12 | 0.40 | ppb |
| Beryllium | 9-1 | 0.18 | 0.19 | 0.20 | 0.19 | 5.42 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.42 | 0.19 | 0.37 | 0.33 | 36.51 | ppb |
| Cadmium | 106-1 | -0.05 | -0.20 | -0.08 | -0.11 | | ppb |
| Cadmium | 111-1 | 0.17 | 0.16 | 0.18 | 0.17 | 6.11 | ppb |
| Calcium | 43-1 | 2011.03 | 2017.48 | 2048.99 | 2025.83 | 1.00 | ppb |
| Calcium | 44-1 | 2084.18 | 2084.04 | 2085.82 | 2084.68 | 0.05 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 9.63 | 9.31 | 9.18 | 9.38 | 2.48 | ppb |
| Cobalt | 59-2 | 12.26 | 12.12 | 11.59 | 11.99 | 2.95 | ppb |
| Copper | 63-2 | 75.16 | 71.70 | 70.48 | 72.45 | 3.35 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 36873.87 | 34709.25 | 33953.53 | 35178.88 | 4.31 | ppb |
| Iron | 56-2 | 36579.31 | 36074.72 | 34652.06 | 35768.69 | 2.79 | ppb |
| Iron | 57-2 | 37658.56 | 35865.31 | 34679.88 | 36067.91 | 4.16 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 19.47 | 20.09 | 20.06 | 19.87 | 1.77 | ppb |

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Inst Id :P8

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 18.49 | 18.88 | 18.94 | 18.77 | 1.30 | ppb |
| Lead | 208-1 | 18.81 | 19.29 | 19.41 | 19.17 | 1.67 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 14721.68 | 14124.92 | 13840.21 | 14228.94 | 3.16 | ppb |
| Manganese | 55-2 | 156.72 | 152.21 | 145.51 | 151.48 | 3.72 | ppb |
| Molybdenum | 94-1 | 5.05 | 4.73 | 4.66 | 4.81 | 4.33 | ppb |
| Molybdenum | 95-1 | 3.53 | 3.51 | 3.47 | 3.50 | 0.88 | ppb |
| Molybdenum | 96-1 | 3.65 | 3.69 | 3.61 | 3.65 | 0.96 | ppb |
| Molybdenum | 97-1 | 3.55 | 3.57 | 3.59 | 3.57 | 0.63 | ppb |
| Molybdenum | 98-1 | 3.49 | 3.58 | 3.51 | 3.53 | 1.28 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 36.32 | 34.36 | 33.57 | 34.75 | 4.08 | ppb |
| Phosphorus | 31-2 | 592.09 | 632.08 | 589.83 | 604.67 | 3.93 | ppb |
| Potassium | 39-2 | 1100.22 | 1078.91 | 1029.70 | 1069.61 | 3.38 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 0.97 | 1.03 | 1.04 | 1.01 | 4.16 | ppb |
| Selenium | 77-2 | 26.94 | 29.19 | 29.19 | 28.44 | 4.56 | ppb |
| Selenium | 78-2 | 8.59 | 4.56 | 5.80 | 6.32 | 32.65 | ppb |
| Silicon | 28-1 | 6748.03 | 6725.82 | 6546.75 | 6673.53 | 1.65 | ppb |
| Silver | 107-1 | 0.19 | 0.20 | 0.20 | 0.20 | 4.47 | ppb |
| Silver | 109-1 | 0.18 | 0.19 | 0.20 | 0.19 | 4.41 | ppb |
| Sodium | 23-2 | 245.98 | 231.50 | 223.10 | 233.53 | 4.96 | ppb |
| Strontium | 86-1 | 13.68 | 13.80 | 13.45 | 13.64 | 1.29 | ppb |
| Strontium | 88-1 | 13.71 | 13.74 | 13.66 | 13.70 | 0.27 | ppb |
| Sulfur | 34-1 | 841.46 | 876.37 | 898.48 | 872.10 | 3.30 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 0.21 | 0.25 | 0.29 | 0.25 | 16.45 | ppb |
| Thallium | 205-1 | 0.20 | 0.24 | 0.27 | 0.24 | 15.40 | ppb |
| Tin | 118-1 | 0.41 | 0.42 | 0.41 | 0.41 | 1.99 | ppb |
| Titanium | 47-1 | 10.92 | 18.43 | 11.49 | 13.61 | 30.71 | ppb |
| Uranium | 238-1 | 0.59 | 0.62 | 0.61 | 0.61 | 2.26 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 6.57 | 6.76 | 6.25 | 6.53 | 3.89 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 161.75 | 154.82 | 149.18 | 155.25 | 4.06 | ppb |
| Zirconium | 90-1 | 0.96 | 1.00 | 1.04 | 1.00 | 3.96 | ppb |
| Zirconium | 91-1 | 1.07 | 1.01 | 1.06 | 1.05 | 3.38 | ppb |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 75.50 | 76.29 | 83.85 | 78.54 | 5.87 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.04 | 0.03 | 12.86 | ppb |
| Arsenic | 75-2 | 1.42 | 1.20 | 1.73 | 1.45 | 18.32 | ppb |
| Barium | 135-1 | 76.93 | 77.21 | 79.01 | 77.72 | 1.45 | ppb |
| Barium | 137-1 | 77.93 | 79.02 | 79.33 | 78.76 | 0.94 | ppb |
| Beryllium | 9-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 90 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | -0.05 | 0.10 | 0.07 | 0.04 | 191.00 | ppb |
| Cadmium | 106-1 | -0.36 | -1.30 | -0.60 | -0.75 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.11 | -0.05 | -0.06 | | ppb |
| Calcium | 43-1 | 13834.35 | 14125.22 | 14151.86 | 14037.15 | 1.25 | ppb |
| Calcium | 44-1 | 13937.40 | 14168.25 | 14160.60 | 14088.75 | 0.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.37 | 0.37 | 0.38 | 0.37 | 1.78 | ppb |
| Cobalt | 59-2 | 0.93 | 0.94 | 0.99 | 0.95 | 2.92 | ppb |
| Copper | 63-2 | 0.64 | 0.62 | 0.67 | 0.64 | 3.98 | 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 | | | | 95 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 93 | | % |
| Indium | 115-2 | | | | 92 | | % |
| Iron | 54-2 | 4843.92 | 4904.75 | 4933.61 | 4894.10 | 0.94 | ppb |
| Iron | 56-2 | 4846.79 | 4960.87 | 5099.01 | 4968.89 | 2.54 | ppb |
| Iron | 57-2 | 4799.11 | 4917.63 | 5002.56 | 4906.43 | 2.08 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.33 | 0.29 | 0.29 | 0.30 | 7.75 | ppb |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.32 | 0.26 | 0.26 | 0.28 | 10.94 | ppb |
| Lead | 208-1 | 0.32 | 0.27 | 0.27 | 0.29 | 10.21 | ppb |
| Lithium | 6-1 | | | | 89 | | % |
| Magnesium | 24-2 | 6786.49 | 6914.06 | 6873.72 | 6858.09 | 0.95 | ppb |
| Manganese | 55-2 | 1000.99 | 1023.80 | 1039.10 | 1021.30 | 1.88 | ppb |
| Molybdenum | 94-1 | 0.46 | 0.46 | 0.50 | 0.48 | 4.70 | ppb |
| Molybdenum | 95-1 | 0.17 | 0.19 | 0.17 | 0.18 | 7.73 | ppb |
| Molybdenum | 96-1 | 0.20 | 0.21 | 0.20 | 0.20 | 3.07 | ppb |
| Molybdenum | 97-1 | 0.16 | 0.17 | 0.17 | 0.16 | 3.01 | ppb |
| Molybdenum | 98-1 | 0.16 | 0.17 | 0.16 | 0.16 | 3.48 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 12.16 | 12.54 | 12.77 | 12.49 | 2.49 | ppb |
| Phosphorus | 31-2 | 98.35 | 76.86 | 82.62 | 85.94 | 12.95 | ppb |
| Potassium | 39-2 | 1710.89 | 1744.45 | 1771.99 | 1742.44 | 1.76 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 93 | | % |
| Scandium | 45-2 | | | | 91 | | % |
| Selenium | 82-1 | 11.94 | 11.61 | 11.71 | 11.75 | 1.42 | ppb |
| Selenium | 77-2 | 14.99 | 14.36 | 15.58 | 14.98 | 4.09 | ppb |
| Selenium | 78-2 | 12.03 | 12.76 | 15.52 | 13.44 | 13.68 | ppb |
| Silicon | 28-1 | 15044.00 | 15151.44 | 15340.97 | 15178.80 | 0.99 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.22 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.17 | ppb |
| Sodium | 23-2 | 90538.30 | 93840.82 | 94147.41 | 92842.18 | 2.16 | ppb |
| Strontium | 86-1 | 115.57 | 117.24 | 118.07 | 116.96 | 1.09 | ppb |
| Strontium | 88-1 | 117.43 | 119.51 | 120.55 | 119.16 | 1.33 | ppb |
| Sulfur | 34-1 | 8246.20 | 8286.34 | 8079.23 | 8203.92 | 1.34 | ppb |
| Terbium | 159-1 | | | | 94 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 0.05 | 0.04 | 0.02 | 0.04 | 34.64 | ppb |
| Thallium | 205-1 | 0.04 | 0.03 | 0.03 | 0.03 | 5.95 | ppb |
| Tin | 118-1 | 0.13 | 0.16 | 0.15 | 0.15 | 8.76 | ppb |
| Titanium | 47-1 | 2.59 | 2.51 | 2.53 | 2.54 | 1.58 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 3.37 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2.39 | 2.47 | 2.41 | 2.42 | 1.80 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 95 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | 1.74 | 1.85 | 2.05 | 1.88 | 8.58 | ppb |
| Zirconium | 90-1 | 0.19 | 0.18 | 0.18 | 0.18 | 4.19 | ppb |
| Zirconium | 91-1 | 0.17 | 0.16 | 0.16 | 0.16 | 3.27 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49583.11 | 48840.45 | 48924.18 | 49115.91 | 0.83 | ppb |
| Antimony | 121-1 | 467.32 | 472.26 | 461.87 | 467.15 | 1.11 | ppb |
| Arsenic | 75-2 | 523.89 | 505.83 | 523.97 | 517.90 | 2.02 | ppb |
| Barium | 135-1 | 2375.76 | 2331.27 | 2349.62 | 2352.22 | 0.95 | ppb |
| Barium | 137-1 | 2357.04 | 2325.39 | 2341.35 | 2341.26 | 0.68 | ppb |
| Beryllium | 9-1 | 476.58 | 493.61 | 475.19 | 481.79 | 2.13 | ppb |
| Bismuth | 209-1 | | | | 85 | | % |
| Bismuth | 209-2 | | | | 84 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 502.74 | 517.66 | 509.30 | 509.90 | 1.47 | ppb |
| Cadmium | 106-1 | 508.38 | 509.49 | 508.01 | 508.63 | 0.15 | ppb |
| Cadmium | 111-1 | 521.06 | 513.54 | 514.60 | 516.40 | 0.79 | ppb |
| Calcium | 43-1 | 248585.28 | 245828.74 | 251950.32 | 248788.11 | 1.23 | ppb |
| Calcium | 44-1 | 246514.91 | 244327.62 | 253180.11 | 248007.54 | 1.86 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 531.09 | 509.41 | 513.83 | 518.11 | 2.21 | ppb |
| Cobalt | 59-2 | 523.07 | 512.66 | 506.61 | 514.11 | 1.62 | ppb |
| Copper | 63-2 | 4984.18 | 4873.18 | 4832.53 | 4896.63 | 1.60 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 93 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 89 | | % |
| Indium | 115-2 | | | | 90 | | % |
| Iron | 54-2 | 123835.86 | 120430.29 | 121504.78 | 121923.64 | 1.43 | ppb |
| Iron | 56-2 | 124967.18 | 122153.89 | 120956.72 | 122692.60 | 1.68 | ppb |
| Iron | 57-2 | 122516.97 | 122009.31 | 121997.40 | 122174.56 | 0.24 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2356.17 | 2381.62 | 2371.05 | 2369.61 | 0.54 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2313.56 | 2384.07 | 2329.23 | 2342.29 | 1.58 | ppb |
| Lead | 208-1 | 2326.56 | 2375.59 | 2331.13 | 2344.43 | 1.16 | ppb |
| Lithium | 6-1 | | | | 86 | | % |
| Magnesium | 24-2 | 237598.89 | 237524.32 | 235978.43 | 237033.88 | 0.39 | ppb |
| Manganese | 55-2 | 5186.08 | 5055.95 | 5091.95 | 5111.33 | 1.31 | ppb |
| Molybdenum | 94-1 | 4581.63 | 4760.73 | 4642.69 | 4661.69 | 1.95 | ppb |
| Molybdenum | 95-1 | 4674.65 | 4789.60 | 4619.63 | 4694.63 | 1.85 | ppb |
| Molybdenum | 96-1 | 4706.72 | 4764.86 | 4680.89 | 4717.49 | 0.91 | ppb |
| Molybdenum | 97-1 | 4681.03 | 4729.14 | 4692.41 | 4700.86 | 0.53 | ppb |
| Molybdenum | 98-1 | 4614.41 | 4657.68 | 4725.90 | 4666.00 | 1.20 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 485.43 | 478.45 | 478.82 | 480.90 | 0.82 | ppb |
| Phosphorus | 31-2 | 10230.76 | 10223.28 | 10240.14 | 10231.39 | 0.08 | ppb |
| Potassium | 39-2 | 119879.05 | 118782.62 | 117999.24 | 118886.97 | 0.79 | ppb |
| Rhodium | 103-1 | | | | 85 | | % |
| Rhodium | 103-2 | | | | 86 | | % |
| Scandium | 45-1 | | | | 93 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 447.82 | 451.97 | 452.88 | 450.89 | 0.60 | ppb |
| Selenium | 77-2 | 492.18 | 501.85 | 477.29 | 490.44 | 2.52 | ppb |
| Selenium | 78-2 | 518.36 | 489.05 | 523.06 | 510.16 | 3.61 | ppb |
| Silicon | 28-1 | 474.24 | 481.05 | 475.00 | 476.76 | 0.78 | ppb |
| Silver | 107-1 | 453.58 | 459.90 | 455.07 | 456.18 | 0.72 | ppb |
| Silver | 109-1 | 450.28 | 456.25 | 440.88 | 449.14 | 1.73 | ppb |
| Sodium | 23-2 | 244622.17 | 242082.75 | 240847.68 | 242517.53 | 0.79 | ppb |
| Strontium | 86-1 | 471.94 | 470.49 | 475.71 | 472.71 | 0.57 | ppb |
| Strontium | 88-1 | 468.75 | 463.58 | 465.67 | 466.00 | 0.56 | ppb |
| Sulfur | 34-1 | 8717.15 | 8933.32 | 8988.89 | 8879.79 | 1.62 | ppb |
| Terbium | 159-1 | | | | 93 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 485.63 | 479.22 | 476.63 | 480.49 | 0.96 | ppb |
| Thallium | 205-1 | 484.28 | 478.05 | 475.38 | 479.24 | 0.95 | ppb |
| Tin | 118-1 | 468.08 | 464.27 | 471.33 | 467.89 | 0.75 | ppb |
| Titanium | 47-1 | 4655.25 | 4678.40 | 4698.27 | 4677.31 | 0.46 | ppb |
| Uranium | 238-1 | 484.89 | 483.03 | 481.58 | 483.16 | 0.34 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 520.13 | 516.80 | 509.21 | 515.38 | 1.09 | 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 | 4969.08 | 4851.76 | 4954.98 | 4925.27 | 1.30 | ppb |
| Zirconium | 90-1 | 465.23 | 471.54 | 468.71 | 468.49 | 0.67 | ppb |
| Zirconium | 91-1 | 474.17 | 482.46 | 473.68 | 476.77 | 1.03 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.49 | -0.32 | -0.08 | -0.30 | | ppb |
| Antimony | 121-1 | 0.02 | 0.03 | 0.03 | 0.03 | 13.42 | ppb |
| Arsenic | 75-2 | -0.01 | -0.05 | -0.03 | -0.03 | | ppb |
| Barium | 135-1 | 0.02 | 0.01 | 0.01 | 0.01 | 51.18 | ppb |
| Barium | 137-1 | 0.01 | 0.02 | 0.02 | 0.02 | 36.63 | ppb |
| Beryllium | 9-1 | -0.01 | 0.00 | 0.00 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.09 | 0.17 | 0.10 | 0.12 | 40.00 | ppb |
| Cadmium | 106-1 | -0.73 | -0.98 | -0.29 | -0.67 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.08 | -0.03 | -0.05 | | ppb |
| Calcium | 43-1 | -1.68 | 0.44 | -0.74 | -0.66 | | ppb |
| Calcium | 44-1 | 2.12 | 2.10 | 2.19 | 2.14 | 2.31 | 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 | | ppb |
| Cobalt | 59-2 | -0.05 | -0.04 | -0.04 | -0.04 | | ppb |
| Copper | 63-2 | 0.05 | 0.03 | 0.05 | 0.04 | 29.71 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 97 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 1.88 | 1.33 | 0.98 | 1.40 | 32.40 | ppb |
| Iron | 56-2 | 1.29 | 0.69 | 0.97 | 0.99 | 30.13 | ppb |
| Iron | 57-2 | -0.63 | 0.99 | 1.58 | 0.64 | 177.57 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.08 | 0.08 | 6.78 | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.09 | 0.09 | 0.09 | 2.05 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.08 | 0.09 | 5.06 | ppb |
| Lithium | 6-1 | | | | 92 | | % |
| Magnesium | 24-2 | -0.92 | -1.56 | -0.96 | -1.15 | | ppb |
| Manganese | 55-2 | 0.19 | 0.16 | 0.13 | 0.16 | 19.82 | ppb |
| Molybdenum | 94-1 | 0.04 | 0.03 | 0.04 | 0.04 | 25.30 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.52 | ppb |
| Molybdenum | 96-1 | 0.03 | 0.02 | 0.02 | 0.02 | 16.15 | ppb |
| Molybdenum | 97-1 | 0.00 | 0.03 | 0.02 | 0.01 | 95.62 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.03 | 0.02 | 26.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.41 | -0.57 | -0.53 | -0.51 | | ppb |
| Phosphorus | 31-2 | -23.04 | -16.27 | -19.47 | -19.59 | | ppb |
| Potassium | 39-2 | 20.11 | 11.09 | 16.01 | 15.73 | 28.71 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 0.03 | 0.25 | 0.29 | 0.19 | 73.00 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.22 | -0.42 | 0.19 | 0.00 | | ppb |
| Silicon | 28-1 | 1.13 | 0.95 | 1.02 | 1.03 | 8.64 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.95 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.00 | 0.01 | 36.25 | ppb |
| Sodium | 23-2 | 28.14 | 16.62 | 20.59 | 21.78 | 26.88 | ppb |
| Strontium | 86-1 | -0.01 | 0.01 | 0.00 | 0.00 | 1029.08 | ppb |
| Strontium | 88-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Sulfur | 34-1 | -298.26 | -386.74 | -242.54 | -309.18 | | ppb |
| Terbium | 159-1 | | | | 96 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 18.96 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 9.13 | ppb |
| Tin | 118-1 | -0.02 | -0.02 | -0.03 | -0.02 | | ppb |
| Titanium | 47-1 | 0.01 | 0.00 | 0.02 | 0.01 | 54.61 | ppb |
| Uranium | 238-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.16 | 0.08 | 0.07 | 0.11 | 47.78 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 58.68 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | -0.01 | 0.00 | | ppb |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 70 | 60 | 113 | 81 | 34.95 | cps |
| Antimony | 121-1 | 37 | 87 | 77 | 67 | 39.68 | cps |
| Arsenic | 75-2 | 10 | 17 | 23 | 17 | 39.99 | cps |
| Barium | 135-1 | 480 | 507 | 507 | 498 | 3.09 | cps |
| Barium | 137-1 | 720 | 777 | 797 | 764 | 5.20 | cps |
| Beryllium | 9-1 | 1035 | 1047 | 1074 | 1052 | 1.88 | cps |
| Bismuth | 209-1 | 11153308 | 11142930 | 11067077 | 11121105 | 0.42 | cps |
| Bismuth | 209-2 | 4284723 | 4213920 | 4293712 | 4264118 | 1.02 | cps |
| Bromine | 81-1 | 3547 | 3434 | 3467 | 3483 | 1.67 | cps |
| Cadmium | 108-1 | 53 | 53 | 53 | 53 | 0.00 | cps |
| Cadmium | 106-1 | 6545 | 6538 | 6648 | 6577 | 0.94 | cps |
| Cadmium | 111-1 | 4604 | 4593 | 4717 | 4638 | 1.47 | cps |
| Calcium | 43-1 | 563 | 463 | 480 | 502 | 10.67 | cps |
| Calcium | 44-1 | 20628 | 20334 | 21212 | 20725 | 2.16 | cps |
| Carbon | 12-1 | 2540086 | 2462464 | 2444186 | 2482245 | 2.05 | cps |
| Carbon | 12-2 | 15558 | 15475 | 15475 | 15503 | 0.31 | cps |
| Chlorine | 35-1 | 153106 | 153881 | 152979 | 153322 | 0.32 | cps |
| Chlorine | 35-2 | 480 | 440 | 433 | 451 | 5.60 | cps |
| Chromium | 52-2 | 2197 | 2080 | 2187 | 2155 | 3.00 | cps |
| Cobalt | 59-2 | 493 | 547 | 583 | 541 | 8.36 | cps |
| Copper | 63-2 | 2047 | 2157 | 2204 | 2136 | 3.77 | cps |
| Dysprosium | 156-1 | 327 | 293 | 260 | 293 | 11.36 | cps |
| Dysprosium | 156-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Erbium | 164-1 | 73 | 100 | 123 | 99 | 25.30 | cps |
| Erbium | 164-2 | 13 | 43 | 37 | 31 | 50.64 | cps |
| Gadolinium | 160-1 | 63 | 67 | 77 | 69 | 10.08 | cps |
| Gadolinium | 160-2 | 20 | 17 | 23 | 20 | 16.65 | cps |
| Holmium | 165-1 | 16892629 | 16732220 | 16497777 | 16707542 | 1.19 | cps |
| Holmium | 165-2 | 5402687 | 5369069 | 5492108 | 5421288 | 1.17 | cps |
| Indium | 115-1 | 13476802 | 13140452 | 13020828 | 13212694 | 1.79 | cps |
| Indium | 115-2 | 1163278 | 1150768 | 1174123 | 1162723 | 1.01 | cps |
| Iron | 54-2 | 697 | 720 | 690 | 702 | 2.24 | cps |
| Iron | 56-2 | 10347 | 10888 | 10687 | 10641 | 2.57 | cps |
| Iron | 57-2 | 300 | 273 | 317 | 297 | 7.37 | cps |
| Krypton | 83-1 | 287 | 313 | 253 | 284 | 10.57 | cps |
| Lead | 206-1 | 1227 | 1140 | 1280 | 1216 | 5.81 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1180 | 1083 | 977 | 1080 | 9.42 | cps |
| Lead | 208-1 | 5090 | 4924 | 5064 | 5026 | 1.78 | cps |
| Lithium | 6-1 | 8118146 | 7921507 | 8164753 | 8068135 | 1.60 | cps |
| Magnesium | 24-2 | 2674 | 2864 | 2640 | 2726 | 4.42 | cps |
| Manganese | 55-2 | 367 | 333 | 260 | 320 | 17.05 | cps |
| Molybdenum | 94-1 | 483 | 527 | 493 | 501 | 4.53 | cps |
| Molybdenum | 95-1 | 470 | 530 | 463 | 488 | 7.53 | cps |
| Molybdenum | 96-1 | 683 | 667 | 627 | 659 | 4.42 | cps |
| Molybdenum | 97-1 | 427 | 360 | 367 | 384 | 9.55 | cps |
| Molybdenum | 98-1 | 903 | 843 | 843 | 863 | 4.01 | cps |
| Neodymium | 150-1 | 17 | 7 | 17 | 13 | 43.29 | cps |
| Neodymium | 150-2 | 10 | 0 | 3 | 4 | 114.60 | cps |
| Nickel | 60-2 | 1663 | 1713 | 1910 | 1762 | 7.40 | cps |
| Phosphorus | 31-2 | 70 | 43 | 93 | 69 | 36.32 | cps |
| Potassium | 39-2 | 9373 | 9593 | 9160 | 9375 | 2.31 | cps |
| Rhodium | 103-1 | 12800128 | 12656177 | 12890656 | 12782320 | 0.93 | cps |
| Rhodium | 103-2 | 4740635 | 4622421 | 4751609 | 4704888 | 1.52 | cps |
| Scandium | 45-1 | 9642969 | 9346865 | 9437052 | 9475629 | 1.60 | cps |
| Scandium | 45-2 | 169861 | 169459 | 172532 | 170617 | 0.98 | cps |
| Selenium | 82-1 | -37 | -63 | 37 | -21 | -245.32 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 0 | 13 | 10 | 8 | 89.21 | cps |
| Silicon | 28-1 | 515250 | 513157 | 512953 | 513787 | 0.25 | cps |
| Silver | 107-1 | 173 | 183 | 143 | 167 | 12.49 | cps |
| Silver | 109-1 | 60 | 47 | 60 | 56 | 13.85 | cps |
| Sodium | 23-2 | 67592 | 67465 | 67602 | 67553 | 0.11 | cps |
| Strontium | 86-1 | 760 | 663 | 697 | 707 | 6.95 | cps |
| Strontium | 88-1 | 2507 | 2267 | 2334 | 2369 | 5.23 | cps |
| Sulfur | 34-1 | 792230 | 788903 | 785968 | 789034 | 0.40 | cps |
| Terbium | 159-1 | 17439861 | 17042379 | 17075851 | 17186030 | 1.28 | cps |
| Terbium | 159-2 | 5331719 | 5243852 | 5291937 | 5289170 | 0.83 | cps |
| Thallium | 203-1 | 470 | 497 | 503 | 490 | 3.60 | cps |
| Thallium | 205-1 | 1163 | 1237 | 1137 | 1179 | 4.39 | cps |
| Tin | 118-1 | 1547 | 1540 | 1653 | 1580 | 4.03 | cps |
| Titanium | 47-1 | 313 | 273 | 340 | 309 | 10.86 | cps |
| Uranium | 238-1 | 463 | 417 | 397 | 426 | 8.04 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:30:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 17 | 13 | 14 | 13.35 | cps |
| Ytterbium | 172-1 | 97 | 93 | 127 | 106 | 17.39 | cps |
| Ytterbium | 172-2 | 30 | 27 | 30 | 29 | 6.65 | cps |
| Ytterbium | 176-1 | 1517 | 1583 | 1677 | 1592 | 5.05 | cps |
| Ytterbium | 176-2 | 280 | 303 | 300 | 294 | 4.29 | cps |
| Yttrium | 89-1 | 23138106 | 22905414 | 23131675 | 23058399 | 0.57 | cps |
| Yttrium | 89-2 | 1498695 | 1457104 | 1483511 | 1479770 | 1.42 | cps |
| Zinc | 66-2 | 160 | 180 | 157 | 166 | 7.62 | cps |
| Zirconium | 90-1 | 720 | 760 | 770 | 750 | 3.53 | cps |
| Zirconium | 91-1 | 153 | 177 | 167 | 166 | 7.07 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1330 | 1280 | 1317 | 1309 | 1.98 | cps |
| Antimony | 121-1 | 31102 | 31526 | 30895 | 31174 | 1.03 | cps |
| Arsenic | 75-2 | 317 | 347 | 290 | 318 | 8.92 | cps |
| Barium | 135-1 | 35934 | 36185 | 36396 | 36172 | 0.64 | cps |
| Barium | 137-1 | 62641 | 62018 | 63582 | 62747 | 1.25 | cps |
| Beryllium | 9-1 | 7026 | 7266 | 6978 | 7090 | 2.17 | cps |
| Bismuth | 209-1 | 10935933 | 10970390 | 11104036 | 11003453 | 0.81 | cps |
| Bismuth | 209-2 | 4178775 | 4204459 | 4142998 | 4175411 | 0.74 | cps |
| Bromine | 81-1 | 3470 | 3540 | 3500 | 3504 | 1.00 | cps |
| Cadmium | 108-1 | 360 | 353 | 357 | 357 | 0.94 | cps |
| Cadmium | 106-1 | 7009 | 6788 | 6982 | 6926 | 1.73 | cps |
| Cadmium | 111-1 | 8645 | 8335 | 8605 | 8528 | 1.97 | cps |
| Calcium | 43-1 | 26050 | 27139 | 27286 | 26825 | 2.52 | cps |
| Calcium | 44-1 | 436070 | 434213 | 436983 | 435755 | 0.32 | cps |
| Carbon | 12-1 | 2639992 | 2676829 | 2680934 | 2665918 | 0.85 | cps |
| Carbon | 12-2 | 16393 | 16937 | 16903 | 16744 | 1.82 | cps |
| Chlorine | 35-1 | 143230 | 142446 | 142934 | 142870 | 0.28 | cps |
| Chlorine | 35-2 | 480 | 567 | 513 | 520 | 8.41 | cps |
| Chromium | 52-2 | 8586 | 8876 | 8796 | 8753 | 1.71 | cps |
| Cobalt | 59-2 | 7065 | 7139 | 6758 | 6987 | 2.89 | cps |
| Copper | 63-2 | 11385 | 11682 | 11815 | 11627 | 1.89 | cps |
| Dysprosium | 156-1 | 277 | 237 | 210 | 241 | 13.92 | cps |
| Dysprosium | 156-2 | 3 | 10 | 10 | 8 | 49.52 | cps |
| Erbium | 164-1 | 83 | 63 | 80 | 76 | 14.18 | cps |
| Erbium | 164-2 | 17 | 17 | 30 | 21 | 36.45 | cps |
| Gadolinium | 160-1 | 83 | 90 | 97 | 90 | 7.41 | cps |
| Gadolinium | 160-2 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Holmium | 165-1 | 16658811 | 16254096 | 16819422 | 16577443 | 1.76 | cps |
| Holmium | 165-2 | 5474061 | 5373114 | 5282529 | 5376568 | 1.78 | cps |
| Indium | 115-1 | 13140513 | 12687415 | 13344163 | 13057364 | 2.57 | cps |
| Indium | 115-2 | 1147470 | 1155722 | 1150075 | 1151089 | 0.37 | cps |
| Iron | 54-2 | 7562 | 7642 | 7675 | 7627 | 0.76 | cps |
| Iron | 56-2 | 133531 | 131176 | 132660 | 132456 | 0.90 | cps |
| Iron | 57-2 | 3274 | 3134 | 3274 | 3227 | 2.51 | cps |
| Krypton | 83-1 | 257 | 287 | 267 | 270 | 5.66 | cps |
| Lead | 206-1 | 13394 | 13294 | 13367 | 13351 | 0.39 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 11539 | 11478 | 11809 | 11609 | 1.52 | cps |
| Lead | 208-1 | 53257 | 53694 | 53527 | 53493 | 0.41 | cps |
| Lithium | 6-1 | 7916217 | 7898334 | 8174017 | 7996189 | 1.93 | cps |
| Magnesium | 24-2 | 119260 | 121047 | 121071 | 120459 | 0.86 | cps |
| Manganese | 55-2 | 1587 | 1633 | 1683 | 1635 | 2.96 | cps |
| Molybdenum | 94-1 | 31365 | 32054 | 31502 | 31640 | 1.15 | cps |
| Molybdenum | 95-1 | 38724 | 38473 | 38961 | 38719 | 0.63 | cps |
| Molybdenum | 96-1 | 43762 | 42842 | 42378 | 42994 | 1.64 | cps |
| Molybdenum | 97-1 | 24278 | 23851 | 24034 | 24054 | 0.89 | cps |
| Molybdenum | 98-1 | 62975 | 63300 | 62905 | 63060 | 0.33 | cps |
| Neodymium | 150-1 | 30 | 7 | 27 | 21 | 59.77 | cps |
| Neodymium | 150-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 3380 | 3410 | 3327 | 3373 | 1.25 | cps |
| Phosphorus | 31-2 | 227 | 200 | 183 | 203 | 10.75 | cps |
| Potassium | 39-2 | 69211 | 68063 | 68270 | 68515 | 0.89 | cps |
| Rhodium | 103-1 | 12630126 | 12282510 | 12771974 | 12561536 | 2.00 | cps |
| Rhodium | 103-2 | 4534627 | 4709952 | 4566324 | 4603634 | 2.03 | cps |
| Scandium | 45-1 | 9382373 | 9143853 | 9446385 | 9324203 | 1.71 | cps |
| Scandium | 45-2 | 166506 | 166679 | 167470 | 166885 | 0.31 | cps |
| Selenium | 82-1 | 1347 | 1213 | 1287 | 1282 | 5.21 | cps |
| Selenium | 77-2 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Selenium | 78-2 | 63 | 53 | 80 | 66 | 20.55 | cps |
| Silicon | 28-1 | 585808 | 584553 | 581414 | 583925 | 0.39 | cps |
| Silver | 107-1 | 18366 | 19123 | 18406 | 18632 | 2.29 | cps |
| Silver | 109-1 | 17812 | 17598 | 18546 | 17985 | 2.76 | cps |
| Sodium | 23-2 | 298511 | 302203 | 299041 | 299919 | 0.67 | cps |
| Strontium | 86-1 | 5688 | 5915 | 5571 | 5725 | 3.05 | cps |
| Strontium | 88-1 | 45517 | 45531 | 45393 | 45480 | 0.17 | cps |
| Sulfur | 34-1 | 780371 | 783024 | 780574 | 781323 | 0.19 | cps |
| Terbium | 159-1 | 17064428 | 16446003 | 17426280 | 16978903 | 2.92 | cps |
| Terbium | 159-2 | 5221096 | 5204180 | 5275568 | 5233615 | 0.71 | cps |
| Thallium | 203-1 | 15670 | 15493 | 15413 | 15525 | 0.85 | cps |
| Thallium | 205-1 | 37160 | 37166 | 36979 | 37102 | 0.29 | cps |
| Tin | 118-1 | 62284 | 62070 | 62750 | 62368 | 0.56 | cps |
| Titanium | 47-1 | 12425 | 12629 | 12929 | 12661 | 2.00 | cps |
| Uranium | 238-1 | 49931 | 48967 | 49111 | 49336 | 1.05 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P8 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:34:17 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 12729 | 12446 | 12772 | 12649 | 1.40 | cps |
| Ytterbium | 172-1 | 103 | 90 | 93 | 96 | 7.26 | cps |
| Ytterbium | 172-2 | 40 | 20 | 20 | 27 | 43.30 | cps |
| Ytterbium | 176-1 | 1523 | 1783 | 1577 | 1628 | 8.44 | cps |
| Ytterbium | 176-2 | 280 | 260 | 267 | 269 | 3.79 | cps |
| Yttrium | 89-1 | 23222216 | 22847685 | 23505401 | 23191768 | 1.42 | cps |
| Yttrium | 89-2 | 1481856 | 1450802 | 1436311 | 1456323 | 1.60 | cps |
| Zinc | 66-2 | 2747 | 2764 | 2767 | 2759 | 0.39 | cps |
| Zirconium | 90-1 | 27040 | 27006 | 26452 | 26833 | 1.23 | cps |
| Zirconium | 91-1 | 5915 | 5618 | 5898 | 5810 | 2.87 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 57741 | 57998 | 58229 | 57989 | 0.42 | cps |
| Antimony | 121-1 | 704853 | 718620 | 724124 | 715866 | 1.39 | cps |
| Arsenic | 75-2 | 13723 | 13790 | 13473 | 13662 | 1.22 | cps |
| Barium | 135-1 | 830665 | 853397 | 848013 | 844025 | 1.41 | cps |
| Barium | 137-1 | 1444036 | 1461932 | 1471753 | 1459240 | 0.96 | cps |
| Beryllium | 9-1 | 266909 | 270477 | 270370 | 269252 | 0.75 | cps |
| Bismuth | 209-1 | 11183152 | 11137398 | 11343888 | 11221479 | 0.97 | cps |
| Bismuth | 209-2 | 4224683 | 4213546 | 4253382 | 4230537 | 0.49 | cps |
| Bromine | 81-1 | 3294 | 3744 | 3494 | 3510 | 6.42 | cps |
| Cadmium | 108-1 | 14975 | 14838 | 14908 | 14907 | 0.46 | cps |
| Cadmium | 106-1 | 27327 | 26980 | 26716 | 27008 | 1.14 | cps |
| Cadmium | 111-1 | 181267 | 183849 | 182457 | 182524 | 0.71 | cps |
| Calcium | 43-1 | 239592 | 242894 | 242861 | 241782 | 0.78 | cps |
| Calcium | 44-1 | 3901351 | 4007780 | 3913452 | 3940861 | 1.48 | cps |
| Carbon | 12-1 | 2646096 | 2656659 | 2589609 | 2630788 | 1.37 | cps |
| Carbon | 12-2 | 16549 | 17224 | 17400 | 17058 | 2.63 | cps |
| Chlorine | 35-1 | 135268 | 136490 | 135699 | 135819 | 0.46 | cps |
| Chlorine | 35-2 | 563 | 450 | 487 | 500 | 11.57 | cps |
| Chromium | 52-2 | 150722 | 150569 | 150950 | 150747 | 0.13 | cps |
| Cobalt | 59-2 | 289428 | 289032 | 292991 | 290484 | 0.75 | cps |
| Copper | 63-2 | 2344349 | 2328737 | 2336702 | 2336596 | 0.33 | cps |
| Dysprosium | 156-1 | 267 | 337 | 267 | 290 | 13.94 | cps |
| Dysprosium | 156-2 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Erbium | 164-1 | 100 | 90 | 110 | 100 | 10.00 | cps |
| Erbium | 164-2 | 13 | 43 | 13 | 23 | 74.24 | cps |
| Gadolinium | 160-1 | 97 | 47 | 97 | 80 | 36.08 | cps |
| Gadolinium | 160-2 | 27 | 13 | 23 | 21 | 32.88 | cps |
| Holmium | 165-1 | 17017261 | 17081249 | 16875016 | 16991176 | 0.62 | cps |
| Holmium | 165-2 | 5524304 | 5647990 | 5600721 | 5591005 | 1.12 | cps |
| Indium | 115-1 | 13464459 | 13304949 | 13325348 | 13364919 | 0.65 | cps |
| Indium | 115-2 | 1177989 | 1183689 | 1185319 | 1182332 | 0.33 | cps |
| Iron | 54-2 | 312233 | 309625 | 312665 | 311508 | 0.53 | cps |
| Iron | 56-2 | 5749512 | 5676750 | 5653075 | 5693112 | 0.88 | cps |
| Iron | 57-2 | 141874 | 141740 | 142524 | 142046 | 0.30 | cps |
| Krypton | 83-1 | 307 | 297 | 313 | 306 | 2.75 | cps |
| Lead | 206-1 | 3001668 | 3044574 | 3012901 | 3019714 | 0.74 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2583277 | 2599266 | 2568143 | 2583562 | 0.60 | cps |
| Lead | 208-1 | 11922108 | 11892258 | 11848713 | 11887693 | 0.31 | cps |
| Lithium | 6-1 | 7966506 | 7988750 | 7924929 | 7960062 | 0.41 | cps |
| Magnesium | 24-2 | 1106846 | 1121407 | 1104537 | 1110930 | 0.82 | cps |
| Manganese | 55-2 | 596623 | 607336 | 607643 | 603867 | 1.04 | cps |
| Molybdenum | 94-1 | 2498618 | 2529772 | 2501497 | 2509962 | 0.69 | cps |
| Molybdenum | 95-1 | 3594346 | 3665325 | 3719227 | 3659633 | 1.71 | cps |
| Molybdenum | 96-1 | 3950113 | 4025567 | 4002110 | 3992597 | 0.97 | cps |
| Molybdenum | 97-1 | 2231040 | 2241360 | 2288751 | 2253717 | 1.37 | cps |
| Molybdenum | 98-1 | 5844949 | 5888675 | 5922768 | 5885464 | 0.66 | cps |
| Neodymium | 150-1 | 93 | 80 | 60 | 78 | 21.57 | cps |
| Neodymium | 150-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Nickel | 60-2 | 80693 | 81642 | 81653 | 81329 | 0.68 | cps |
| Phosphorus | 31-2 | 2937 | 2734 | 2870 | 2847 | 3.64 | cps |
| Potassium | 39-2 | 292157 | 291537 | 292405 | 292033 | 0.15 | cps |
| Rhodium | 103-1 | 12678874 | 12686365 | 12584558 | 12649932 | 0.45 | cps |
| Rhodium | 103-2 | 4740775 | 4706207 | 4820465 | 4755815 | 1.23 | cps |
| Scandium | 45-1 | 9267484 | 9336577 | 9471788 | 9358616 | 1.11 | cps |
| Scandium | 45-2 | 173619 | 170849 | 173055 | 172508 | 0.85 | cps |
| Selenium | 82-1 | 11108 | 11365 | 11635 | 11369 | 2.32 | cps |
| Selenium | 77-2 | 170 | 210 | 253 | 211 | 19.74 | cps |
| Selenium | 78-2 | 577 | 567 | 583 | 576 | 1.46 | cps |
| Silicon | 28-1 | 1114029 | 1123959 | 1103294 | 1113760 | 0.93 | cps |
| Silver | 107-1 | 899918 | 911195 | 918788 | 909967 | 1.04 | cps |
| Silver | 109-1 | 859083 | 863886 | 879695 | 867555 | 1.24 | cps |
| Sodium | 23-2 | 2254630 | 2305169 | 2278674 | 2279491 | 1.11 | cps |
| Strontium | 86-1 | 228359 | 231653 | 229635 | 229882 | 0.72 | cps |
| Strontium | 88-1 | 2023609 | 2078307 | 2090966 | 2064294 | 1.73 | cps |
| Sulfur | 34-1 | 852638 | 847989 | 848060 | 849562 | 0.31 | cps |
| Terbium | 159-1 | 17197067 | 17760498 | 17305862 | 17421142 | 1.72 | cps |
| Terbium | 159-2 | 5237246 | 5268889 | 5303927 | 5270021 | 0.63 | cps |
| Thallium | 203-1 | 698736 | 701726 | 710454 | 703638 | 0.87 | cps |
| Thallium | 205-1 | 1698655 | 1707273 | 1720330 | 1708753 | 0.64 | cps |
| Tin | 118-1 | 566513 | 575859 | 578527 | 573633 | 1.10 | cps |
| Titanium | 47-1 | 1119401 | 1120846 | 1124479 | 1121575 | 0.23 | cps |
| Uranium | 238-1 | 2372879 | 2442181 | 2421829 | 2412296 | 1.48 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P8 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:37:40 | DataFile Name : | 006CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 116540 | 114541 | 117494 | 116191 | 1.30 | cps |
| Ytterbium | 172-1 | 123 | 93 | 93 | 103 | 16.76 | cps |
| Ytterbium | 172-2 | 43 | 37 | 30 | 37 | 18.18 | cps |
| Ytterbium | 176-1 | 4754 | 5031 | 4871 | 4885 | 2.84 | cps |
| Ytterbium | 176-2 | 1300 | 1347 | 1227 | 1291 | 4.69 | cps |
| Yttrium | 89-1 | 22802390 | 23231410 | 23472770 | 23168857 | 1.47 | cps |
| Yttrium | 89-2 | 1492472 | 1488321 | 1516258 | 1499017 | 1.01 | cps |
| Zinc | 66-2 | 239037 | 239726 | 240298 | 239687 | 0.26 | cps |
| Zirconium | 90-1 | 1226087 | 1230718 | 1245875 | 1234226 | 0.84 | cps |
| Zirconium | 91-1 | 267588 | 273017 | 272932 | 271179 | 1.15 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 144698 | 146149 | 145004 | 145284 | 0.53 | cps |
| Antimony | 121-1 | 1807355 | 1824447 | 1814550 | 1815451 | 0.47 | cps |
| Arsenic | 75-2 | 33710 | 34599 | 34643 | 34317 | 1.53 | cps |
| Barium | 135-1 | 2130599 | 2180608 | 2174606 | 2161938 | 1.26 | cps |
| Barium | 137-1 | 3743747 | 3630333 | 3670743 | 3681608 | 1.56 | cps |
| Beryllium | 9-1 | 662005 | 666320 | 671074 | 666466 | 0.68 | cps |
| Bismuth | 209-1 | 11213154 | 11019037 | 10991322 | 11074504 | 1.09 | cps |
| Bismuth | 209-2 | 4129477 | 4210609 | 4123839 | 4154641 | 1.17 | cps |
| Bromine | 81-1 | 3264 | 3534 | 3644 | 3480 | 5.62 | cps |
| Cadmium | 108-1 | 36829 | 37110 | 37247 | 37062 | 0.57 | cps |
| Cadmium | 106-1 | 57379 | 57774 | 58373 | 57842 | 0.87 | cps |
| Cadmium | 111-1 | 445845 | 446526 | 455587 | 449319 | 1.21 | cps |
| Calcium | 43-1 | 596320 | 604636 | 607257 | 602737 | 0.95 | cps |
| Calcium | 44-1 | 9698936 | 9522903 | 9691108 | 9637649 | 1.03 | cps |
| Carbon | 12-1 | 2979066 | 2990224 | 2993644 | 2987645 | 0.26 | cps |
| Carbon | 12-2 | 19640 | 19563 | 20204 | 19802 | 1.77 | cps |
| Chlorine | 35-1 | 136876 | 137579 | 139824 | 138093 | 1.12 | cps |
| Chlorine | 35-2 | 427 | 483 | 477 | 462 | 6.70 | cps |
| Chromium | 52-2 | 376015 | 377462 | 377261 | 376913 | 0.21 | cps |
| Cobalt | 59-2 | 716472 | 715616 | 708965 | 713684 | 0.58 | cps |
| Copper | 63-2 | 5736701 | 5755849 | 5762487 | 5751679 | 0.23 | cps |
| Dysprosium | 156-1 | 337 | 273 | 230 | 280 | 19.16 | cps |
| Dysprosium | 156-2 | 10 | 20 | 0 | 10 | 100.00 | cps |
| Erbium | 164-1 | 80 | 97 | 103 | 93 | 12.88 | cps |
| Erbium | 164-2 | 30 | 23 | 23 | 26 | 15.07 | cps |
| Gadolinium | 160-1 | 103 | 80 | 83 | 89 | 14.20 | cps |
| Gadolinium | 160-2 | 33 | 30 | 23 | 29 | 17.63 | cps |
| Holmium | 165-1 | 17085363 | 16799825 | 17020310 | 16968499 | 0.88 | cps |
| Holmium | 165-2 | 5521644 | 5443380 | 5564960 | 5509995 | 1.12 | cps |
| Indium | 115-1 | 13334890 | 13290033 | 13197926 | 13274283 | 0.53 | cps |
| Indium | 115-2 | 1182525 | 1173228 | 1172068 | 1175941 | 0.49 | cps |
| Iron | 54-2 | 772230 | 770193 | 770789 | 771071 | 0.14 | cps |
| Iron | 56-2 | 14428580 | 14155900 | 14021225 | 14201902 | 1.46 | cps |
| Iron | 57-2 | 358704 | 353245 | 351353 | 354434 | 1.08 | cps |
| Krypton | 83-1 | 247 | 243 | 293 | 261 | 10.71 | cps |
| Lead | 206-1 | 7277343 | 7208548 | 7347162 | 7277684 | 0.95 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6423830 | 6386969 | 6393758 | 6401519 | 0.31 | cps |
| Lead | 208-1 | 29600950 | 29200008 | 29587023 | 29462660 | 0.77 | cps |
| Lithium | 6-1 | 7953005 | 7725128 | 7936750 | 7871628 | 1.62 | cps |
| Magnesium | 24-2 | 2800039 | 2727587 | 2778973 | 2768867 | 1.35 | cps |
| Manganese | 55-2 | 1583824 | 1534630 | 1550701 | 1556385 | 1.61 | cps |
| Molybdenum | 94-1 | 6105042 | 6150495 | 6292855 | 6182798 | 1.58 | cps |
| Molybdenum | 95-1 | 8979682 | 9052362 | 9051986 | 9028010 | 0.46 | cps |
| Molybdenum | 96-1 | 9910632 | 9980921 | 9818812 | 9903455 | 0.82 | cps |
| Molybdenum | 97-1 | 5623610 | 5628453 | 5640431 | 5630832 | 0.15 | cps |
| Molybdenum | 98-1 | 14858859 | 14535592 | 14915862 | 14770104 | 1.39 | cps |
| Neodymium | 150-1 | 143 | 127 | 150 | 140 | 8.58 | cps |
| Neodymium | 150-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Nickel | 60-2 | 199227 | 200447 | 199908 | 199861 | 0.31 | cps |
| Phosphorus | 31-2 | 7169 | 7162 | 7202 | 7177 | 0.30 | cps |
| Potassium | 39-2 | 719620 | 719846 | 717643 | 719036 | 0.17 | cps |
| Rhodium | 103-1 | 12750180 | 12464746 | 12611583 | 12608836 | 1.13 | cps |
| Rhodium | 103-2 | 4691207 | 4669731 | 4595221 | 4652053 | 1.08 | cps |
| Scandium | 45-1 | 9548600 | 9481289 | 9563813 | 9531234 | 0.46 | cps |
| Scandium | 45-2 | 172664 | 173025 | 170177 | 171955 | 0.90 | cps |
| Selenium | 82-1 | 28025 | 28446 | 28910 | 28461 | 1.56 | cps |
| Selenium | 77-2 | 443 | 407 | 407 | 419 | 5.05 | cps |
| Selenium | 78-2 | 1463 | 1570 | 1377 | 1470 | 6.59 | cps |
| Silicon | 28-1 | 1982025 | 1987298 | 1997742 | 1989022 | 0.40 | cps |
| Silver | 107-1 | 2355104 | 2358319 | 2363797 | 2359074 | 0.19 | cps |
| Silver | 109-1 | 2202998 | 2236145 | 2266222 | 2235121 | 1.41 | cps |
| Sodium | 23-2 | 5586243 | 5484346 | 5601838 | 5557475 | 1.15 | cps |
| Strontium | 86-1 | 575656 | 571081 | 577834 | 574857 | 0.60 | cps |
| Strontium | 88-1 | 5102379 | 5124924 | 5090747 | 5106017 | 0.34 | cps |
| Sulfur | 34-1 | 952031 | 957268 | 953312 | 954204 | 0.29 | cps |
| Terbium | 159-1 | 17648747 | 17239316 | 16811208 | 17233090 | 2.43 | cps |
| Terbium | 159-2 | 5323708 | 5254199 | 5295040 | 5290982 | 0.66 | cps |
| Thallium | 203-1 | 1821692 | 1797622 | 1780709 | 1800008 | 1.14 | cps |
| Thallium | 205-1 | 4280107 | 4298413 | 4388193 | 4322237 | 1.34 | cps |
| Tin | 118-1 | 1410886 | 1443889 | 1434487 | 1429754 | 1.19 | cps |
| Titanium | 47-1 | 2860120 | 2810171 | 2837784 | 2836025 | 0.88 | cps |
| Uranium | 238-1 | 5987586 | 5958961 | 6075760 | 6007436 | 1.01 | cps |



1400

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P8 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:40:47 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 293612 | 293660 | 291556 | 292943 | 0.41 | cps |
| Ytterbium | 172-1 | 100 | 140 | 113 | 118 | 17.29 | cps |
| Ytterbium | 172-2 | 33 | 50 | 50 | 44 | 21.66 | cps |
| Ytterbium | 176-1 | 9667 | 9827 | 10097 | 9864 | 2.21 | cps |
| Ytterbium | 176-2 | 2747 | 3084 | 2877 | 2903 | 5.85 | cps |
| Yttrium | 89-1 | 23608705 | 23606435 | 23315865 | 23510335 | 0.72 | cps |
| Yttrium | 89-2 | 1525837 | 1537351 | 1520525 | 1527904 | 0.56 | cps |
| Zinc | 66-2 | 594196 | 597508 | 595807 | 595837 | 0.28 | cps |
| Zirconium | 90-1 | 3171716 | 3208188 | 3184452 | 3188119 | 0.58 | cps |
| Zirconium | 91-1 | 674529 | 687281 | 689852 | 683887 | 1.20 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 296185 | 291558 | 297755 | 295166 | 1.09 | cps |
| Antimony | 121-1 | 3755340 | 3762449 | 3836942 | 3784910 | 1.19 | cps |
| Arsenic | 75-2 | 69832 | 71768 | 71838 | 71146 | 1.60 | cps |
| Barium | 135-1 | 4375881 | 4336621 | 4434824 | 4382442 | 1.13 | cps |
| Barium | 137-1 | 7468791 | 7602650 | 7495986 | 7522476 | 0.94 | cps |
| Beryllium | 9-1 | 1361567 | 1388512 | 1371110 | 1373730 | 0.99 | cps |
| Bismuth | 209-1 | 10863891 | 10828339 | 10720629 | 10804287 | 0.69 | cps |
| Bismuth | 209-2 | 4006024 | 4107262 | 3641009 | 3918098 | 6.26 | cps |
| Bromine | 81-1 | 3500 | 3504 | 3527 | 3510 | 0.41 | cps |
| Cadmium | 108-1 | 74765 | 74936 | 74540 | 74747 | 0.27 | cps |
| Cadmium | 106-1 | 110652 | 111627 | 111160 | 111146 | 0.44 | cps |
| Cadmium | 111-1 | 904633 | 912685 | 907386 | 908235 | 0.45 | cps |
| Calcium | 43-1 | 1233233 | 1235481 | 1233656 | 1234123 | 0.10 | cps |
| Calcium | 44-1 | 19506248 | 19666441 | 19776044 | 19649578 | 0.69 | cps |
| Carbon | 12-1 | 3155561 | 3217160 | 3245779 | 3206167 | 1.44 | cps |
| Carbon | 12-2 | 21763 | 21636 | 20868 | 21422 | 2.26 | cps |
| Chlorine | 35-1 | 140144 | 141201 | 141850 | 141065 | 0.61 | cps |
| Chlorine | 35-2 | 387 | 547 | 477 | 470 | 17.07 | cps |
| Chromium | 52-2 | 758688 | 758348 | 758402 | 758479 | 0.02 | cps |
| Cobalt | 59-2 | 1482988 | 1489272 | 1487150 | 1486470 | 0.22 | cps |
| Copper | 63-2 | 11642536 | 11508814 | 11562869 | 11571407 | 0.58 | cps |
| Dysprosium | 156-1 | 223 | 283 | 313 | 273 | 16.77 | cps |
| Dysprosium | 156-2 | 13 | 20 | 7 | 13 | 49.99 | cps |
| Erbium | 164-1 | 117 | 123 | 147 | 129 | 12.22 | cps |
| Erbium | 164-2 | 30 | 60 | 30 | 40 | 43.30 | cps |
| Gadolinium | 160-1 | 107 | 113 | 100 | 107 | 6.25 | cps |
| Gadolinium | 160-2 | 23 | 27 | 27 | 26 | 7.55 | cps |
| Holmium | 165-1 | 17136127 | 16794260 | 16650528 | 16860305 | 1.48 | cps |
| Holmium | 165-2 | 5433608 | 5614002 | 4906041 | 5317884 | 6.92 | cps |
| Indium | 115-1 | 13122757 | 12907016 | 12860154 | 12963309 | 1.08 | cps |
| Indium | 115-2 | 1108168 | 1179112 | 1033334 | 1106871 | 6.59 | cps |
| Iron | 54-2 | 1601765 | 1607781 | 1570527 | 1593358 | 1.26 | cps |
| Iron | 56-2 | 28869460 | 28585595 | 28732713 | 28729256 | 0.49 | cps |
| Iron | 57-2 | 709938 | 712894 | 720676 | 714503 | 0.78 | cps |
| Krypton | 83-1 | 273 | 260 | 307 | 280 | 8.58 | cps |
| Lead | 206-1 | 14654624 | 14706049 | 14677130 | 14679267 | 0.18 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 12869543 | 12975224 | 12847485 | 12897417 | 0.53 | cps |
| Lead | 208-1 | 59509739 | 60033998 | 59705966 | 59749901 | 0.44 | cps |
| Lithium | 6-1 | 7824434 | 7781427 | 7642099 | 7749320 | 1.23 | cps |
| Magnesium | 24-2 | 5544296 | 5569084 | 5648635 | 5587338 | 0.98 | cps |
| Manganese | 55-2 | 3083191 | 3103334 | 3163022 | 3116516 | 1.33 | cps |
| Molybdenum | 94-1 | 12600106 | 12817714 | 12584465 | 12667428 | 1.03 | cps |
| Molybdenum | 95-1 | 18479268 | 18705063 | 18453356 | 18545896 | 0.75 | cps |
| Molybdenum | 96-1 | 20111483 | 20532754 | 20050966 | 20231734 | 1.30 | cps |
| Molybdenum | 97-1 | 11447786 | 11495843 | 11523163 | 11488931 | 0.33 | cps |
| Molybdenum | 98-1 | 30135246 | 30183808 | 30304098 | 30207717 | 0.29 | cps |
| Neodymium | 150-1 | 283 | 317 | 283 | 294 | 6.54 | cps |
| Neodymium | 150-2 | 17 | 3 | 20 | 13 | 66.16 | cps |
| Nickel | 60-2 | 397134 | 400151 | 402646 | 399977 | 0.69 | cps |
| Phosphorus | 31-2 | 14517 | 14941 | 14694 | 14718 | 1.45 | cps |
| Potassium | 39-2 | 1490196 | 1518102 | 1512317 | 1506872 | 0.98 | cps |
| Rhodium | 103-1 | 12328686 | 12219024 | 12057886 | 12201865 | 1.12 | cps |
| Rhodium | 103-2 | 4390159 | 4653891 | 4066059 | 4370036 | 6.74 | cps |
| Scandium | 45-1 | 9493752 | 9159558 | 9194335 | 9282548 | 1.98 | cps |
| Scandium | 45-2 | 165852 | 173743 | 152645 | 164080 | 6.50 | cps |
| Selenium | 82-1 | 56608 | 58542 | 58155 | 57768 | 1.77 | cps |
| Selenium | 77-2 | 827 | 903 | 850 | 860 | 4.57 | cps |
| Selenium | 78-2 | 2887 | 2964 | 2947 | 2933 | 1.38 | cps |
| Silicon | 28-1 | 3566587 | 3577761 | 3552615 | 3565654 | 0.35 | cps |
| Silver | 107-1 | 4655433 | 4788862 | 4696394 | 4713563 | 1.45 | cps |
| Silver | 109-1 | 4466709 | 4489871 | 4482970 | 4479850 | 0.27 | cps |
| Sodium | 23-2 | 11277171 | 11194948 | 11177664 | 11216594 | 0.47 | cps |
| Strontium | 86-1 | 1162791 | 1173168 | 1164894 | 1166951 | 0.47 | cps |
| Strontium | 88-1 | 10170247 | 10256739 | 10181695 | 10202894 | 0.46 | cps |
| Sulfur | 34-1 | 1102940 | 1108702 | 1098866 | 1103503 | 0.45 | cps |
| Terbium | 159-1 | 17541675 | 16907981 | 17196342 | 17215333 | 1.84 | cps |
| Terbium | 159-2 | 5110638 | 5345916 | 4750557 | 5069037 | 5.92 | cps |
| Thallium | 203-1 | 3621646 | 3610817 | 3678270 | 3636911 | 1.00 | cps |
| Thallium | 205-1 | 8535721 | 8559980 | 8536888 | 8544197 | 0.16 | cps |
| Tin | 118-1 | 2930351 | 2968525 | 2983096 | 2960657 | 0.92 | cps |
| Titanium | 47-1 | 5750407 | 5735805 | 5736977 | 5741063 | 0.14 | cps |
| Uranium | 238-1 | 12357900 | 12394978 | 12370076 | 12374318 | 0.15 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P8 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:43:47 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 591452 | 594597 | 596356 | 594135 | 0.42 | cps |
| Ytterbium | 172-1 | 130 | 110 | 153 | 131 | 16.54 | cps |
| Ytterbium | 172-2 | 47 | 43 | 27 | 39 | 27.55 | cps |
| Ytterbium | 176-1 | 18246 | 18780 | 18707 | 18578 | 1.56 | cps |
| Ytterbium | 176-2 | 5691 | 5691 | 5925 | 5769 | 2.34 | cps |
| Yttrium | 89-1 | 22975297 | 22700073 | 22744299 | 22806556 | 0.65 | cps |
| Yttrium | 89-2 | 1450717 | 1493748 | 1315005 | 1419823 | 6.57 | cps |
| Zinc | 66-2 | 1201840 | 1207354 | 1202680 | 1203958 | 0.25 | cps |
| Zirconium | 90-1 | 6403688 | 6399379 | 6311157 | 6371408 | 0.82 | cps |
| Zirconium | 91-1 | 1441592 | 1415883 | 1415348 | 1424274 | 1.05 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 569289 | 572604 | 567470 | 569788 | 0.46 | cps |
| Antimony | 121-1 | 7151242 | 7315350 | 7162863 | 7209818 | 1.27 | cps |
| Arsenic | 75-2 | 135485 | 138049 | 137305 | 136946 | 0.96 | cps |
| Barium | 135-1 | 8423951 | 8682528 | 8534165 | 8546881 | 1.52 | cps |
| Barium | 137-1 | 14533890 | 14548935 | 14452253 | 14511693 | 0.36 | cps |
| Beryllium | 9-1 | 2613242 | 2578723 | 2542741 | 2578235 | 1.37 | cps |
| Bismuth | 209-1 | 10595544 | 10457442 | 10531926 | 10528304 | 0.66 | cps |
| Bismuth | 209-2 | 3989723 | 3985800 | 3975609 | 3983711 | 0.18 | cps |
| Bromine | 81-1 | 3704 | 3564 | 3704 | 3657 | 2.21 | cps |
| Cadmium | 108-1 | 141871 | 142174 | 145118 | 143055 | 1.25 | cps |
| Cadmium | 106-1 | 207963 | 209300 | 205203 | 207489 | 1.01 | cps |
| Cadmium | 111-1 | 1754687 | 1766924 | 1760863 | 1760825 | 0.35 | cps |
| Calcium | 43-1 | 2390221 | 2404217 | 2444600 | 2413013 | 1.17 | cps |
| Calcium | 44-1 | 37869571 | 37669801 | 38565680 | 38035017 | 1.24 | cps |
| Carbon | 12-1 | 3417988 | 3545852 | 3629479 | 3531106 | 3.02 | cps |
| Carbon | 12-2 | 25038 | 24547 | 25155 | 24913 | 1.29 | cps |
| Chlorine | 35-1 | 148998 | 149529 | 150382 | 149636 | 0.47 | cps |
| Chlorine | 35-2 | 520 | 513 | 510 | 514 | 0.99 | cps |
| Chromium | 52-2 | 1552719 | 1506582 | 1509796 | 1523032 | 1.69 | cps |
| Cobalt | 59-2 | 2822939 | 2872609 | 2878953 | 2858167 | 1.07 | cps |
| Copper | 63-2 | 22458066 | 22210116 | 21999402 | 22222528 | 1.03 | cps |
| Dysprosium | 156-1 | 333 | 320 | 323 | 326 | 2.13 | cps |
| Dysprosium | 156-2 | 30 | 13 | 30 | 24 | 39.37 | cps |
| Erbium | 164-1 | 160 | 123 | 170 | 151 | 16.26 | cps |
| Erbium | 164-2 | 60 | 50 | 40 | 50 | 20.00 | cps |
| Gadolinium | 160-1 | 140 | 163 | 133 | 146 | 10.82 | cps |
| Gadolinium | 160-2 | 40 | 40 | 47 | 42 | 9.12 | cps |
| Holmium | 165-1 | 16437922 | 16660666 | 16242341 | 16446976 | 1.27 | cps |
| Holmium | 165-2 | 5353756 | 5389923 | 5485514 | 5409731 | 1.26 | cps |
| Indium | 115-1 | 12745053 | 12385785 | 12396237 | 12509025 | 1.63 | cps |
| Indium | 115-2 | 1109528 | 1116384 | 1124880 | 1116931 | 0.69 | cps |
| Iron | 54-2 | 3024250 | 3091174 | 3060430 | 3058618 | 1.10 | cps |
| Iron | 56-2 | 55640178 | 54783949 | 56407062 | 55610396 | 1.46 | cps |
| Iron | 57-2 | 1369937 | 1408893 | 1430146 | 1402992 | 2.18 | cps |
| Krypton | 83-1 | 247 | 270 | 320 | 279 | 13.43 | cps |
| Lead | 206-1 | 28885635 | 29130205 | 28909005 | 28974948 | 0.47 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 25082555 | 24901693 | 24997473 | 24993907 | 0.36 | cps |
| Lead | 208-1 | 115491092 | 115380082 | 115149922 | 115340366 | 0.15 | cps |
| Lithium | 6-1 | 7560175 | 7529522 | 7639480 | 7576392 | 0.75 | cps |
| Magnesium | 24-2 | 10847201 | 10559075 | 10872231 | 10759502 | 1.62 | cps |
| Manganese | 55-2 | 5988204 | 5932861 | 5951519 | 5957528 | 0.47 | cps |
| Molybdenum | 94-1 | 24418340 | 24452002 | 24956756 | 24609033 | 1.23 | cps |
| Molybdenum | 95-1 | 35874132 | 35367838 | 36652697 | 35964889 | 1.80 | cps |
| Molybdenum | 96-1 | 39453839 | 39312899 | 39987392 | 39584710 | 0.90 | cps |
| Molybdenum | 97-1 | 22501381 | 22090643 | 22538207 | 22376744 | 1.11 | cps |
| Molybdenum | 98-1 | 58463179 | 58097294 | 59251572 | 58604015 | 1.01 | cps |
| Neodymium | 150-1 | 633 | 600 | 623 | 619 | 2.76 | cps |
| Neodymium | 150-2 | 23 | 30 | 30 | 28 | 13.86 | cps |
| Nickel | 60-2 | 763837 | 767965 | 772336 | 768046 | 0.55 | cps |
| Phosphorus | 31-2 | 27980 | 28111 | 28435 | 28175 | 0.83 | cps |
| Potassium | 39-2 | 2852450 | 2827840 | 2896556 | 2858949 | 1.22 | cps |
| Rhodium | 103-1 | 12089881 | 11909607 | 11932722 | 11977403 | 0.82 | cps |
| Rhodium | 103-2 | 4542275 | 4429645 | 4439009 | 4470310 | 1.40 | cps |
| Scandium | 45-1 | 9307792 | 9064697 | 9281688 | 9218059 | 1.45 | cps |
| Scandium | 45-2 | 168014 | 169007 | 172387 | 169803 | 1.35 | cps |
| Selenium | 82-1 | 109700 | 111783 | 110426 | 110636 | 0.96 | cps |
| Selenium | 77-2 | 1667 | 1717 | 1750 | 1711 | 2.45 | cps |
| Selenium | 78-2 | 5671 | 5611 | 6098 | 5793 | 4.58 | cps |
| Silicon | 28-1 | 6366202 | 6376341 | 6329638 | 6357394 | 0.39 | cps |
| Silver | 107-1 | 8870313 | 9105349 | 8946111 | 8973924 | 1.34 | cps |
| Silver | 109-1 | 8331433 | 8548483 | 8568021 | 8482645 | 1.55 | cps |
| Sodium | 23-2 | 21815266 | 21535478 | 21734781 | 21695175 | 0.66 | cps |
| Strontium | 86-1 | 2278594 | 2341687 | 2340724 | 2320335 | 1.56 | cps |
| Strontium | 88-1 | 20128612 | 20118732 | 20279051 | 20175465 | 0.45 | cps |
| Sulfur | 34-1 | 1415920 | 1421867 | 1425870 | 1421219 | 0.35 | cps |
| Terbium | 159-1 | 17024863 | 17201818 | 16994401 | 17073694 | 0.66 | cps |
| Terbium | 159-2 | 5266663 | 5219107 | 5202209 | 5229326 | 0.64 | cps |
| Thallium | 203-1 | 7034541 | 7057253 | 7033837 | 7041877 | 0.19 | cps |
| Thallium | 205-1 | 16837081 | 16977655 | 16705690 | 16840142 | 0.81 | cps |
| Tin | 118-1 | 5662982 | 5827693 | 5627878 | 5706184 | 1.87 | cps |
| Titanium | 47-1 | 11205183 | 11000069 | 11392302 | 11199185 | 1.75 | cps |
| Uranium | 238-1 | 23715150 | 23526872 | 23356375 | 23532799 | 0.76 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P8 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:46:37 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1146166 | 1150957 | 1159693 | 1152272 | 0.60 | cps |
| Ytterbium | 172-1 | 170 | 143 | 160 | 158 | 8.54 | cps |
| Ytterbium | 172-2 | 63 | 73 | 67 | 68 | 7.51 | cps |
| Ytterbium | 176-1 | 34034 | 34141 | 34826 | 34333 | 1.25 | cps |
| Ytterbium | 176-2 | 10881 | 10798 | 10858 | 10846 | 0.40 | cps |
| Yttrium | 89-1 | 22744003 | 22404109 | 22806567 | 22651560 | 0.96 | cps |
| Yttrium | 89-2 | 1479912 | 1472460 | 1490993 | 1481121 | 0.63 | cps |
| Zinc | 66-2 | 2395008 | 2369980 | 2376000 | 2380329 | 0.55 | cps |
| Zirconium | 90-1 | 12506434 | 12358407 | 12630774 | 12498538 | 1.09 | cps |
| Zirconium | 91-1 | 2774823 | 2762479 | 2817817 | 2785040 | 1.04 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1096275 | 1107778 | 1105423 | 1103158 | 0.55 | cps |
| Antimony | 121-1 | 13867396 | 14085970 | 14073211 | 14008859 | 0.88 | cps |
| Arsenic | 75-2 | 265524 | 266611 | 265215 | 265784 | 0.28 | cps |
| Barium | 135-1 | 16348423 | 16655708 | 16941014 | 16648381 | 1.78 | cps |
| Barium | 137-1 | 28312388 | 28235796 | 29289405 | 28612530 | 2.05 | cps |
| Beryllium | 9-1 | 4931285 | 5045195 | 5196885 | 5057788 | 2.63 | cps |
| Bismuth | 209-1 | 10262132 | 10370663 | 8554891 | 9729229 | 10.47 | cps |
| Bismuth | 209-2 | 4218809 | 4092084 | 3890969 | 4067287 | 4.06 | cps |
| Bromine | 81-1 | 3624 | 3757 | 3937 | 3773 | 4.17 | cps |
| Cadmium | 108-1 | 275497 | 277317 | 282883 | 278566 | 1.38 | cps |
| Cadmium | 106-1 | 392568 | 397277 | 397294 | 395713 | 0.69 | cps |
| Cadmium | 111-1 | 3421242 | 3458162 | 3428989 | 3436131 | 0.57 | cps |
| Calcium | 43-1 | 4645661 | 4707052 | 4839402 | 4730705 | 2.09 | cps |
| Calcium | 44-1 | 73756717 | 74457686 | 75340592 | 74518332 | 1.07 | cps |
| Carbon | 12-1 | 4207919 | 4468380 | 4598912 | 4425070 | 4.50 | cps |
| Carbon | 12-2 | 32536 | 33538 | 33184 | 33086 | 1.54 | cps |
| Chlorine | 35-1 | 166992 | 170478 | 173321 | 170264 | 1.86 | cps |
| Chlorine | 35-2 | 673 | 623 | 603 | 633 | 5.69 | cps |
| Chromium | 52-2 | 2917211 | 2971837 | 2949847 | 2946298 | 0.93 | cps |
| Cobalt | 59-2 | 5458345 | 5417743 | 5462970 | 5446352 | 0.46 | cps |
| Copper | 63-2 | 41958406 | 42594859 | 42899624 | 42484297 | 1.13 | cps |
| Dysprosium | 156-1 | 527 | 400 | 383 | 437 | 17.95 | cps |
| Dysprosium | 156-2 | 50 | 63 | 33 | 49 | 30.75 | cps |
| Erbium | 164-1 | 240 | 207 | 217 | 221 | 7.74 | cps |
| Erbium | 164-2 | 73 | 70 | 90 | 78 | 13.78 | cps |
| Gadolinium | 160-1 | 183 | 220 | 200 | 201 | 9.13 | cps |
| Gadolinium | 160-2 | 43 | 63 | 70 | 59 | 23.57 | cps |
| Holmium | 165-1 | 16764599 | 16306971 | 13286210 | 15452594 | 12.23 | cps |
| Holmium | 165-2 | 5987387 | 5483537 | 5310828 | 5593917 | 6.28 | cps |
| Indium | 115-1 | 12241197 | 12183891 | 9863380 | 11429489 | 11.87 | cps |
| Indium | 115-2 | 1177922 | 1146061 | 1079665 | 1134549 | 4.42 | cps |
| Iron | 54-2 | 5889881 | 5951988 | 5946663 | 5929511 | 0.58 | cps |
| Iron | 56-2 | 107218605 | 107695265 | 108441625 | 107785165 | 0.57 | cps |
| Iron | 57-2 | 2769679 | 2737864 | 2791886 | 2766476 | 0.98 | cps |
| Krypton | 83-1 | 290 | 247 | 297 | 278 | 9.77 | cps |
| Lead | 206-1 | 54471129 | 57362946 | 56481876 | 56105317 | 2.64 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 47942579 | 49890158 | 49029401 | 48954046 | 1.99 | cps |
| Lead | 208-1 | 220018537 | 228530422 | 227264992 | 225271317 | 2.04 | cps |
| Lithium | 6-1 | 7305140 | 7428526 | 6518854 | 7084173 | 6.97 | cps |
| Magnesium | 24-2 | 20760273 | 20812753 | 20912683 | 20828569 | 0.37 | cps |
| Manganese | 55-2 | 11610018 | 11566082 | 11701888 | 11625996 | 0.60 | cps |
| Molybdenum | 94-1 | 47323149 | 48162736 | 50149784 | 48545223 | 2.99 | cps |
| Molybdenum | 95-1 | 69218026 | 70905839 | 70393276 | 70172380 | 1.23 | cps |
| Molybdenum | 96-1 | 75695796 | 77431647 | 77569347 | 76898930 | 1.36 | cps |
| Molybdenum | 97-1 | 43359293 | 43404769 | 44536961 | 43767008 | 1.52 | cps |
| Molybdenum | 98-1 | 113188465 | 114601008 | 115719852 | 114503108 | 1.11 | cps |
| Neodymium | 150-1 | 1043 | 1090 | 1160 | 1098 | 5.35 | cps |
| Neodymium | 150-2 | 40 | 50 | 43 | 44 | 11.46 | cps |
| Nickel | 60-2 | 1529684 | 1541927 | 1525877 | 1532496 | 0.55 | cps |
| Phosphorus | 31-2 | 54388 | 54562 | 54395 | 54448 | 0.18 | cps |
| Potassium | 39-2 | 5484070 | 5499041 | 5503551 | 5495554 | 0.19 | cps |
| Rhodium | 103-1 | 11660253 | 11463713 | 9311612 | 10811859 | 12.05 | cps |
| Rhodium | 103-2 | 4791550 | 4505992 | 4299862 | 4532468 | 5.45 | cps |
| Scandium | 45-1 | 9261660 | 9042045 | 7255510 | 8519738 | 12.92 | cps |
| Scandium | 45-2 | 185947 | 179791 | 168900 | 178213 | 4.84 | cps |
| Selenium | 82-1 | 216930 | 215247 | 216567 | 216248 | 0.41 | cps |
| Selenium | 77-2 | 3290 | 3284 | 3474 | 3349 | 3.22 | cps |
| Selenium | 78-2 | 10881 | 11335 | 11488 | 11235 | 2.81 | cps |
| Silicon | 28-1 | 11910129 | 11592323 | 11968889 | 11823780 | 1.71 | cps |
| Silver | 107-1 | 17315681 | 17274683 | 17460991 | 17350452 | 0.56 | cps |
| Silver | 109-1 | 16286306 | 16709152 | 16450696 | 16482051 | 1.29 | cps |
| Sodium | 23-2 | 42145206 | 41999984 | 42600405 | 42248532 | 0.74 | cps |
| Strontium | 86-1 | 4582382 | 4521681 | 4688539 | 4597534 | 1.84 | cps |
| Strontium | 88-1 | 39817471 | 38597103 | 40669691 | 39694755 | 2.62 | cps |
| Sulfur | 34-1 | 2051668 | 2030114 | 2019358 | 2033714 | 0.81 | cps |
| Terbium | 159-1 | 16850338 | 17094129 | 13706114 | 15883527 | 11.90 | cps |
| Terbium | 159-2 | 5652511 | 5351610 | 5226534 | 5410218 | 4.05 | cps |
| Thallium | 203-1 | 13374986 | 13731250 | 13589406 | 13565214 | 1.32 | cps |
| Thallium | 205-1 | 31838124 | 33174803 | 32912973 | 32641966 | 2.17 | cps |
| Tin | 118-1 | 10977055 | 11194387 | 11143203 | 11104882 | 1.02 | cps |
| Titanium | 47-1 | 21434635 | 21858946 | 22098737 | 21797439 | 1.54 | cps |
| Uranium | 238-1 | 45770868 | 46677189 | 47164126 | 46537394 | 1.52 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P8 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:49:25 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2298851 | 2305810 | 2312650 | 2305770 | 0.30 | cps |
| Ytterbium | 172-1 | 253 | 260 | 210 | 241 | 11.26 | cps |
| Ytterbium | 172-2 | 113 | 87 | 110 | 103 | 14.06 | cps |
| Ytterbium | 176-1 | 66644 | 66054 | 66406 | 66368 | 0.45 | cps |
| Ytterbium | 176-2 | 20873 | 21084 | 20773 | 20910 | 0.76 | cps |
| Yttrium | 89-1 | 22713165 | 22159476 | 18450624 | 21107755 | 10.98 | cps |
| Yttrium | 89-2 | 1607574 | 1574683 | 1466936 | 1549731 | 4.75 | cps |
| Zinc | 66-2 | 4520058 | 4503637 | 4441524 | 4488406 | 0.92 | cps |
| Zirconium | 90-1 | 24270111 | 24598554 | 25100011 | 24656225 | 1.70 | cps |
| Zirconium | 91-1 | 5311972 | 5402840 | 5500705 | 5405172 | 1.75 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5395700 | 5421753 | 5437316 | 5418256 | 0.39 | cps |
| Antimony | 121-1 | 10854 | 10297 | 10391 | 10514 | 2.84 | cps |
| Arsenic | 75-2 | 160 | 93 | 167 | 140 | 28.97 | cps |
| Barium | 135-1 | 6552 | 6145 | 6325 | 6340 | 3.22 | cps |
| Barium | 137-1 | 11528 | 11508 | 10968 | 11335 | 2.81 | cps |
| Beryllium | 9-1 | 2572 | 2391 | 2252 | 2405 | 6.67 | cps |
| Bismuth | 209-1 | 9014600 | 9071318 | 8924636 | 9003518 | 0.82 | cps |
| Bismuth | 209-2 | 3455071 | 3408927 | 3361146 | 3408381 | 1.38 | cps |
| Bromine | 81-1 | 3901 | 3974 | 4117 | 3997 | 2.76 | cps |
| Cadmium | 108-1 | 273 | 207 | 237 | 239 | 13.98 | cps |
| Cadmium | 106-1 | 6205 | 6195 | 6065 | 6155 | 1.27 | cps |
| Cadmium | 111-1 | 4849 | 4928 | 4676 | 4818 | 2.67 | cps |
| Calcium | 43-1 | 20860448 | 21229953 | 21157764 | 21082722 | 0.93 | cps |
| Calcium | 44-1 | 336563342 | 342590288 | 339916768 | 339690133 | 0.89 | cps |
| Carbon | 12-1 | 3825912 | 4018159 | 4105411 | 3983161 | 3.59 | cps |
| Carbon | 12-2 | 35787 | 36338 | 35740 | 35955 | 0.93 | cps |
| Chlorine | 35-1 | 128972 | 127496 | 126571 | 127679 | 0.95 | cps |
| Chlorine | 35-2 | 503 | 420 | 467 | 463 | 9.01 | cps |
| Chromium | 52-2 | 9553 | 9894 | 9537 | 9661 | 2.09 | cps |
| Cobalt | 59-2 | 11575 | 11585 | 11408 | 11523 | 0.86 | cps |
| Copper | 63-2 | 9623 | 9803 | 10037 | 9821 | 2.11 | cps |
| Dysprosium | 156-1 | 507 | 667 | 750 | 641 | 19.29 | cps |
| Dysprosium | 156-2 | 167 | 120 | 203 | 163 | 25.57 | cps |
| Erbium | 164-1 | 470 | 607 | 580 | 552 | 13.12 | cps |
| Erbium | 164-2 | 240 | 157 | 153 | 183 | 26.78 | cps |
| Gadolinium | 160-1 | 507 | 503 | 517 | 509 | 1.36 | cps |
| Gadolinium | 160-2 | 203 | 177 | 180 | 187 | 7.79 | cps |
| Holmium | 165-1 | 15248185 | 15330006 | 15323449 | 15300547 | 0.30 | cps |
| Holmium | 165-2 | 5123045 | 4970507 | 4950243 | 5014598 | 1.88 | cps |
| Indium | 115-1 | 11209198 | 11417311 | 11143646 | 11256718 | 1.27 | cps |
| Indium | 115-2 | 1019797 | 1021157 | 999806 | 1013587 | 1.18 | cps |
| Iron | 54-2 | 27289845 | 27549824 | 27424535 | 27421401 | 0.47 | cps |
| Iron | 56-2 | 498388499 | 501405473 | 503310739 | 501034904 | 0.50 | cps |
| Iron | 57-2 | 12652980 | 12661106 | 12811603 | 12708563 | 0.70 | cps |
| Krypton | 83-1 | 323 | 403 | 363 | 363 | 11.01 | cps |
| Lead | 206-1 | 11422 | 10668 | 10231 | 10773 | 5.59 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 9650 | 9327 | 8670 | 9216 | 5.42 | cps |
| Lead | 208-1 | 45185 | 42671 | 40175 | 42677 | 5.87 | cps |
| Lithium | 6-1 | 6840653 | 6759512 | 6987587 | 6862584 | 1.68 | cps |
| Magnesium | 24-2 | 99562509 | 98796305 | 99019379 | 99126064 | 0.40 | cps |
| Manganese | 55-2 | 5268 | 5628 | 5374 | 5423 | 3.41 | cps |
| Molybdenum | 94-1 | 34663 | 35355 | 34372 | 34797 | 1.45 | cps |
| Molybdenum | 95-1 | 35576 | 35763 | 35448 | 35596 | 0.44 | cps |
| Molybdenum | 96-1 | 40957 | 40612 | 41007 | 40859 | 0.53 | cps |
| Molybdenum | 97-1 | 21814 | 21520 | 21834 | 21723 | 0.81 | cps |
| Molybdenum | 98-1 | 56223 | 56551 | 55213 | 55996 | 1.25 | cps |
| Neodymium | 150-1 | 307 | 273 | 333 | 304 | 9.87 | cps |
| Neodymium | 150-2 | 50 | 57 | 63 | 57 | 11.76 | cps |
| Nickel | 60-2 | 6131 | 6008 | 6098 | 6079 | 1.05 | cps |
| Phosphorus | 31-2 | 117 | 107 | 87 | 103 | 14.78 | cps |
| Potassium | 39-2 | 27132060 | 26627966 | 26906374 | 26888800 | 0.94 | cps |
| Rhodium | 103-1 | 10101125 | 10065151 | 10102134 | 10089470 | 0.21 | cps |
| Rhodium | 103-2 | 3868732 | 3878849 | 3815681 | 3854421 | 0.88 | cps |
| Scandium | 45-1 | 8472881 | 8475913 | 8546999 | 8498597 | 0.49 | cps |
| Scandium | 45-2 | 158587 | 162087 | 157768 | 159481 | 1.44 | cps |
| Selenium | 82-1 | 43 | 7 | -67 | -6 | -1008.66 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 20 | 13 | 23 | 19 | 26.96 | cps |
| Silicon | 28-1 | 677442 | 663155 | 659466 | 666688 | 1.42 | cps |
| Silver | 107-1 | 3200 | 3010 | 2744 | 2985 | 7.69 | cps |
| Silver | 109-1 | 3034 | 2704 | 2587 | 2775 | 8.35 | cps |
| Sodium | 23-2 | 195073537 | 196591117 | 197530030 | 196398228 | 0.63 | cps |
| Strontium | 86-1 | 13727 | 13780 | 13794 | 13767 | 0.26 | cps |
| Strontium | 88-1 | 116689 | 117308 | 114861 | 116286 | 1.09 | cps |
| Sulfur | 34-1 | 724840 | 725336 | 725585 | 725254 | 0.05 | cps |
| Terbium | 159-1 | 15782826 | 15545689 | 15194499 | 15507671 | 1.91 | cps |
| Terbium | 159-2 | 4866435 | 4859684 | 4778806 | 4834975 | 1.01 | cps |
| Thallium | 203-1 | 1457 | 1350 | 1313 | 1373 | 5.42 | cps |
| Thallium | 205-1 | 3537 | 3224 | 3024 | 3262 | 7.93 | cps |
| Tin | 118-1 | 3394 | 3500 | 3207 | 3367 | 4.41 | cps |
| Titanium | 47-1 | 4381 | 5001 | 5071 | 4818 | 7.89 | cps |
| Uranium | 238-1 | 2480 | 2377 | 1750 | 2202 | 17.94 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P8 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 13:52:10 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 577 | 550 | 610 | 579 | 5.19 | cps |
| Ytterbium | 172-1 | 687 | 667 | 667 | 673 | 1.71 | cps |
| Ytterbium | 172-2 | 267 | 270 | 317 | 284 | 9.83 | cps |
| Ytterbium | 176-1 | 2007 | 1990 | 1893 | 1963 | 3.12 | cps |
| Ytterbium | 176-2 | 393 | 413 | 403 | 403 | 2.48 | cps |
| Yttrium | 89-1 | 21431333 | 21033070 | 20927529 | 21130644 | 1.26 | cps |
| Yttrium | 89-2 | 1365720 | 1370013 | 1345429 | 1360388 | 0.97 | cps |
| Zinc | 66-2 | 2364 | 2474 | 2444 | 2427 | 2.34 | cps |
| Zirconium | 90-1 | 39345 | 38938 | 39984 | 39422 | 1.34 | cps |
| Zirconium | 91-1 | 8983 | 9216 | 8976 | 9059 | 1.51 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 24537 | 25639 | 24908 | 25028 | 2.24 | cps |
| Antimony | 121-1 | 2680843 | 2726157 | 2719529 | 2708843 | 0.90 | cps |
| Arsenic | 75-2 | 50554 | 51035 | 50330 | 50640 | 0.71 | cps |
| Barium | 135-1 | 315338 | 317954 | 320230 | 317841 | 0.77 | cps |
| Barium | 137-1 | 540642 | 554097 | 547878 | 547539 | 1.23 | cps |
| Beryllium | 9-1 | 488126 | 490980 | 492870 | 490659 | 0.49 | cps |
| Bismuth | 209-1 | 10745999 | 10740623 | 10782840 | 10756487 | 0.21 | cps |
| Bismuth | 209-2 | 3912789 | 3982311 | 4045920 | 3980340 | 1.67 | cps |
| Bromine | 81-1 | 3357 | 3514 | 3510 | 3460 | 2.59 | cps |
| Cadmium | 108-1 | 35619 | 35773 | 36355 | 35916 | 1.08 | cps |
| Cadmium | 106-1 | 35482 | 36375 | 36034 | 35963 | 1.25 | cps |
| Cadmium | 111-1 | 341680 | 342515 | 343407 | 342534 | 0.25 | cps |
| Calcium | 43-1 | 95903 | 97854 | 98699 | 97485 | 1.47 | cps |
| Calcium | 44-1 | 1539901 | 1512284 | 1568337 | 1540174 | 1.82 | cps |
| Carbon | 12-1 | 3520388 | 3594186 | 3604007 | 3572860 | 1.28 | cps |
| Carbon | 12-2 | 23252 | 23262 | 22961 | 23158 | 0.74 | cps |
| Chlorine | 35-1 | 89870 | 90250 | 89927 | 90016 | 0.23 | cps |
| Chlorine | 35-2 | 303 | 313 | 293 | 303 | 3.30 | cps |
| Chromium | 52-2 | 275049 | 279418 | 280622 | 278363 | 1.05 | cps |
| Cobalt | 59-2 | 531463 | 532025 | 528515 | 530668 | 0.36 | cps |
| Copper | 63-2 | 421012 | 425857 | 420286 | 422385 | 0.72 | cps |
| Dysprosium | 156-1 | 200 | 237 | 240 | 226 | 9.84 | cps |
| Dysprosium | 156-2 | 13 | 7 | 0 | 7 | 99.98 | cps |
| Erbium | 164-1 | 87 | 97 | 63 | 82 | 20.81 | cps |
| Erbium | 164-2 | 37 | 27 | 23 | 29 | 24.03 | cps |
| Gadolinium | 160-1 | 70 | 57 | 73 | 67 | 13.22 | cps |
| Gadolinium | 160-2 | 17 | 3 | 30 | 17 | 80.01 | cps |
| Holmium | 165-1 | 16406130 | 16470393 | 16322454 | 16399659 | 0.45 | cps |
| Holmium | 165-2 | 5093565 | 5171515 | 5174027 | 5146369 | 0.89 | cps |
| Indium | 115-1 | 12823097 | 12872144 | 12841180 | 12845474 | 0.19 | cps |
| Indium | 115-2 | 1094739 | 1096039 | 1109480 | 1100086 | 0.74 | cps |
| Iron | 54-2 | 228540 | 228911 | 227390 | 228280 | 0.35 | cps |
| Iron | 56-2 | 4039410 | 4083543 | 4104812 | 4075922 | 0.82 | cps |
| Iron | 57-2 | 102183 | 102968 | 100608 | 101920 | 1.18 | cps |
| Krypton | 83-1 | 307 | 307 | 243 | 286 | 12.80 | cps |
| Lead | 206-1 | 2319952 | 2320755 | 2345637 | 2328781 | 0.63 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1921844 | 1944391 | 1955832 | 1940689 | 0.89 | cps |
| Lead | 208-1 | 9028759 | 9033799 | 9143322 | 9068627 | 0.71 | cps |
| Lithium | 6-1 | 7565736 | 7502218 | 7426491 | 7498148 | 0.93 | cps |
| Magnesium | 24-2 | 222033 | 222813 | 221420 | 222089 | 0.31 | cps |
| Manganese | 55-2 | 106181 | 108152 | 106514 | 106949 | 0.99 | cps |
| Molybdenum | 94-1 | 19156346 | 19222374 | 19036923 | 19138547 | 0.49 | cps |
| Molybdenum | 95-1 | 34154908 | 34085124 | 34503523 | 34247851 | 0.65 | cps |
| Molybdenum | 96-1 | 36963158 | 36999463 | 36936275 | 36966299 | 0.09 | cps |
| Molybdenum | 97-1 | 21330733 | 21280807 | 21393758 | 21335100 | 0.27 | cps |
| Molybdenum | 98-1 | 56784764 | 55956198 | 55369746 | 56036902 | 1.27 | cps |
| Neodymium | 150-1 | 43 | 47 | 53 | 48 | 10.66 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 148627 | 149166 | 150247 | 149347 | 0.55 | cps |
| Phosphorus | 31-2 | 73 | 57 | 97 | 76 | 26.59 | cps |
| Potassium | 39-2 | 207079 | 207378 | 205920 | 206792 | 0.37 | cps |
| Rhodium | 103-1 | 12101941 | 12152462 | 12114489 | 12122964 | 0.22 | cps |
| Rhodium | 103-2 | 4460572 | 4448688 | 4434668 | 4447976 | 0.29 | cps |
| Scandium | 45-1 | 9183178 | 9103138 | 9104752 | 9130356 | 0.50 | cps |
| Scandium | 45-2 | 160960 | 161106 | 160701 | 160922 | 0.13 | cps |
| Selenium | 82-1 | 42699 | 44505 | 43274 | 43493 | 2.12 | cps |
| Selenium | 77-2 | 517 | 590 | 627 | 578 | 9.69 | cps |
| Selenium | 78-2 | 2094 | 2040 | 2130 | 2088 | 2.17 | cps |
| Silicon | 28-1 | 526634 | 529905 | 535077 | 530539 | 0.80 | cps |
| Silver | 107-1 | 865459 | 872061 | 879643 | 872388 | 0.81 | cps |
| Silver | 109-1 | 825945 | 836278 | 839812 | 834011 | 0.86 | cps |
| Sodium | 23-2 | 843846 | 855104 | 846545 | 848498 | 0.69 | cps |
| Strontium | 86-1 | 2421188 | 2369405 | 2373706 | 2388100 | 1.20 | cps |
| Strontium | 88-1 | 20327578 | 20787991 | 20331049 | 20482206 | 1.29 | cps |
| Sulfur | 34-1 | 772057 | 770574 | 765729 | 769453 | 0.43 | cps |
| Terbium | 159-1 | 16642196 | 16723810 | 16627381 | 16664462 | 0.31 | cps |
| Terbium | 159-2 | 4947642 | 4966620 | 5033830 | 4982697 | 0.91 | cps |
| Thallium | 203-1 | 2909783 | 2918911 | 2941936 | 2923543 | 0.57 | cps |
| Thallium | 205-1 | 6767344 | 6888192 | 6861189 | 6838908 | 0.93 | cps |
| Tin | 118-1 | 2527 | 2660 | 2807 | 2665 | 5.26 | cps |
| Titanium | 47-1 | 1277 | 1317 | 1263 | 1286 | 2.16 | cps |
| Uranium | 238-1 | 710 | 683 | 740 | 711 | 3.99 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICV006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:00:19 | DataFile Name : | 020ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 208294 | 209352 | 206805 | 208150 | 0.61 | cps |
| Ytterbium | 172-1 | 77 | 103 | 107 | 96 | 17.21 | cps |
| Ytterbium | 172-2 | 20 | 27 | 33 | 27 | 24.99 | cps |
| Ytterbium | 176-1 | 1570 | 1450 | 1507 | 1509 | 3.98 | cps |
| Ytterbium | 176-2 | 207 | 227 | 247 | 227 | 8.82 | cps |
| Yttrium | 89-1 | 22003460 | 22557659 | 22375968 | 22312362 | 1.27 | cps |
| Yttrium | 89-2 | 1380901 | 1375322 | 1412524 | 1389582 | 1.44 | cps |
| Zinc | 66-2 | 82844 | 84899 | 84828 | 84190 | 1.39 | cps |
| Zirconium | 90-1 | 1150 | 1113 | 1063 | 1109 | 3.92 | cps |
| Zirconium | 91-1 | 853 | 953 | 823 | 877 | 7.76 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 97 | 110 | 110 | 106 | 7.29 | cps |
| Antimony | 121-1 | 1343 | 1147 | 1233 | 1241 | 7.94 | cps |
| Arsenic | 75-2 | 7 | 0 | 7 | 4 | 86.60 | cps |
| Barium | 135-1 | 567 | 590 | 567 | 574 | 2.35 | cps |
| Barium | 137-1 | 1040 | 977 | 1023 | 1013 | 3.24 | cps |
| Beryllium | 9-1 | 864 | 865 | 859 | 862 | 0.38 | cps |
| Bismuth | 209-1 | 10762592 | 10334780 | 10809166 | 10635512 | 2.46 | cps |
| Bismuth | 209-2 | 3938020 | 3996306 | 4009848 | 3981391 | 0.96 | cps |
| Bromine | 81-1 | 3194 | 3174 | 3314 | 3227 | 2.35 | cps |
| Cadmium | 108-1 | 60 | 43 | 83 | 62 | 32.29 | cps |
| Cadmium | 106-1 | 6178 | 6101 | 6035 | 6105 | 1.18 | cps |
| Cadmium | 111-1 | 4369 | 4347 | 4229 | 4315 | 1.75 | cps |
| Calcium | 43-1 | 520 | 453 | 497 | 490 | 6.90 | cps |
| Calcium | 44-1 | 21957 | 21696 | 21813 | 21822 | 0.60 | cps |
| Carbon | 12-1 | 2647789 | 2607706 | 2606070 | 2620522 | 0.90 | cps |
| Carbon | 12-2 | 16686 | 16466 | 16302 | 16485 | 1.17 | cps |
| Chlorine | 35-1 | 88206 | 88619 | 89049 | 88625 | 0.48 | cps |
| Chlorine | 35-2 | 273 | 273 | 273 | 273 | 0.00 | cps |
| Chromium | 52-2 | 2047 | 2010 | 1980 | 2012 | 1.66 | cps |
| Cobalt | 59-2 | 373 | 327 | 347 | 349 | 6.71 | cps |
| Copper | 63-2 | 2207 | 2137 | 1987 | 2110 | 5.33 | cps |
| Dysprosium | 156-1 | 203 | 153 | 217 | 191 | 17.47 | cps |
| Dysprosium | 156-2 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Erbium | 164-1 | 73 | 77 | 60 | 70 | 12.60 | cps |
| Erbium | 164-2 | 23 | 30 | 23 | 26 | 15.07 | cps |
| Gadolinium | 160-1 | 73 | 73 | 70 | 72 | 2.66 | cps |
| Gadolinium | 160-2 | 10 | 27 | 17 | 18 | 47.19 | cps |
| Holmium | 165-1 | 16609534 | 15550417 | 16133026 | 16097659 | 3.30 | cps |
| Holmium | 165-2 | 5202399 | 5139060 | 5088522 | 5143327 | 1.11 | cps |
| Indium | 115-1 | 12974103 | 12255778 | 12653345 | 12627742 | 2.85 | cps |
| Indium | 115-2 | 1100040 | 1093940 | 1083072 | 1092351 | 0.79 | cps |
| Iron | 54-2 | 633 | 670 | 633 | 646 | 3.28 | cps |
| Iron | 56-2 | 10074 | 9513 | 10107 | 9898 | 3.37 | cps |
| Iron | 57-2 | 237 | 217 | 213 | 222 | 5.68 | cps |
| Krypton | 83-1 | 250 | 280 | 280 | 270 | 6.42 | cps |
| Lead | 206-1 | 1513 | 1583 | 1537 | 1545 | 2.31 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1353 | 1213 | 1377 | 1315 | 6.72 | cps |
| Lead | 208-1 | 6087 | 5934 | 6157 | 6060 | 1.89 | cps |
| Lithium | 6-1 | 7582628 | 7319486 | 7511524 | 7471213 | 1.82 | cps |
| Magnesium | 24-2 | 2370 | 2580 | 2574 | 2508 | 4.76 | cps |
| Manganese | 55-2 | 327 | 280 | 320 | 309 | 8.17 | cps |
| Molybdenum | 94-1 | 2147 | 1980 | 1954 | 2027 | 5.17 | cps |
| Molybdenum | 95-1 | 3424 | 2927 | 2627 | 2993 | 13.45 | cps |
| Molybdenum | 96-1 | 3577 | 3337 | 3260 | 3392 | 4.87 | cps |
| Molybdenum | 97-1 | 1970 | 1743 | 1617 | 1777 | 10.08 | cps |
| Molybdenum | 98-1 | 5394 | 5031 | 4531 | 4985 | 8.70 | cps |
| Neodymium | 150-1 | 30 | 20 | 27 | 26 | 19.92 | cps |
| Neodymium | 150-2 | 17 | 3 | 7 | 9 | 78.08 | cps |
| Nickel | 60-2 | 1070 | 1050 | 1020 | 1047 | 2.40 | cps |
| Phosphorus | 31-2 | 87 | 60 | 80 | 76 | 18.37 | cps |
| Potassium | 39-2 | 9286 | 9363 | 9356 | 9335 | 0.46 | cps |
| Rhodium | 103-1 | 12310143 | 11749876 | 12153870 | 12071296 | 2.40 | cps |
| Rhodium | 103-2 | 4539720 | 4409149 | 4440129 | 4462999 | 1.53 | cps |
| Scandium | 45-1 | 8978566 | 8700047 | 9051911 | 8910175 | 2.08 | cps |
| Scandium | 45-2 | 159794 | 158918 | 158718 | 159143 | 0.36 | cps |
| Selenium | 82-1 | 47 | -60 | -23 | -12 | -443.30 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 7 | 17 | 0 | 8 | 107.84 | cps |
| Silicon | 28-1 | 491714 | 497911 | 492166 | 493930 | 0.70 | cps |
| Silver | 107-1 | 757 | 870 | 1083 | 903 | 18.36 | cps |
| Silver | 109-1 | 583 | 887 | 980 | 817 | 25.40 | cps |
| Sodium | 23-2 | 78275 | 78181 | 78707 | 78388 | 0.36 | cps |
| Strontium | 86-1 | 750 | 783 | 693 | 742 | 6.13 | cps |
| Strontium | 88-1 | 3407 | 3360 | 3210 | 3326 | 3.09 | cps |
| Sulfur | 34-1 | 755822 | 761455 | 758953 | 758743 | 0.37 | cps |
| Terbium | 159-1 | 16781236 | 15906090 | 16353490 | 16346939 | 2.68 | cps |
| Terbium | 159-2 | 4882221 | 4962368 | 5017990 | 4954193 | 1.38 | cps |
| Thallium | 203-1 | 717 | 777 | 663 | 719 | 7.89 | cps |
| Thallium | 205-1 | 1893 | 1857 | 1787 | 1846 | 2.94 | cps |
| Tin | 118-1 | 2164 | 2027 | 1987 | 2059 | 4.50 | cps |
| Titanium | 47-1 | 263 | 333 | 313 | 303 | 11.89 | cps |
| Uranium | 238-1 | 73 | 70 | 60 | 68 | 10.24 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:03:28 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 20 | 30 | 21 | 39.75 | cps |
| Ytterbium | 172-1 | 50 | 60 | 110 | 73 | 43.83 | cps |
| Ytterbium | 172-2 | 23 | 23 | 30 | 26 | 15.07 | cps |
| Ytterbium | 176-1 | 1487 | 1490 | 1433 | 1470 | 2.16 | cps |
| Ytterbium | 176-2 | 177 | 247 | 213 | 212 | 16.50 | cps |
| Yttrium | 89-1 | 22308486 | 21567565 | 21756903 | 21877651 | 1.76 | cps |
| Yttrium | 89-2 | 1401232 | 1375396 | 1362186 | 1379605 | 1.44 | cps |
| Zinc | 66-2 | 137 | 170 | 113 | 140 | 20.34 | cps |
| Zirconium | 90-1 | 697 | 727 | 657 | 693 | 5.07 | cps |
| Zirconium | 91-1 | 247 | 253 | 173 | 224 | 19.78 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5078306 | 5073935 | 5156414 | 5102885 | 0.91 | cps |
| Antimony | 121-1 | 15873 | 16320 | 16767 | 16320 | 2.74 | cps |
| Arsenic | 75-2 | 90 | 97 | 113 | 100 | 12.02 | cps |
| Barium | 135-1 | 4741 | 4851 | 5164 | 4919 | 4.47 | cps |
| Barium | 137-1 | 8773 | 8623 | 8579 | 8658 | 1.17 | cps |
| Beryllium | 9-1 | 2060 | 2019 | 2045 | 2041 | 1.02 | cps |
| Bismuth | 209-1 | 9742128 | 9565621 | 9807017 | 9704922 | 1.29 | cps |
| Bismuth | 209-2 | 3700636 | 3733810 | 3762470 | 3732305 | 0.83 | cps |
| Bromine | 81-1 | 4484 | 4814 | 4958 | 4752 | 5.11 | cps |
| Cadmium | 108-1 | 5188 | 4928 | 5094 | 5070 | 2.60 | cps |
| Cadmium | 106-1 | 5835 | 5518 | 6168 | 5840 | 5.57 | cps |
| Cadmium | 111-1 | 6718 | 6314 | 6763 | 6598 | 3.74 | cps |
| Calcium | 43-1 | 4632838 | 4696059 | 4667522 | 4665473 | 0.68 | cps |
| Calcium | 44-1 | 73536589 | 74992251 | 73887261 | 74138700 | 1.02 | cps |
| Carbon | 12-1 | 40946971 | 41255898 | 42109969 | 41437613 | 1.45 | cps |
| Carbon | 12-2 | 267412 | 263814 | 268260 | 266495 | 0.89 | cps |
| Chlorine | 35-1 | 74237212 | 79736977 | 81156882 | 78377024 | 4.66 | cps |
| Chlorine | 35-2 | 320952 | 320724 | 329079 | 323585 | 1.47 | cps |
| Chromium | 52-2 | 58733 | 59034 | 60189 | 59319 | 1.30 | cps |
| Cobalt | 59-2 | 6712 | 6818 | 6502 | 6677 | 2.41 | cps |
| Copper | 63-2 | 36006 | 36530 | 35922 | 36153 | 0.91 | cps |
| Dysprosium | 156-1 | 203 | 233 | 187 | 208 | 11.38 | cps |
| Dysprosium | 156-2 | 27 | 30 | 13 | 23 | 37.81 | cps |
| Erbium | 164-1 | 123 | 143 | 100 | 122 | 17.75 | cps |
| Erbium | 164-2 | 37 | 50 | 33 | 40 | 22.05 | cps |
| Gadolinium | 160-1 | 173 | 120 | 120 | 138 | 22.35 | cps |
| Gadolinium | 160-2 | 30 | 37 | 33 | 33 | 10.01 | cps |
| Holmium | 165-1 | 15987181 | 15899134 | 15822107 | 15902808 | 0.52 | cps |
| Holmium | 165-2 | 5149737 | 5261342 | 5233783 | 5214954 | 1.11 | cps |
| Indium | 115-1 | 11938810 | 12058202 | 12131376 | 12042796 | 0.81 | cps |
| Indium | 115-2 | 1059207 | 1077761 | 1069479 | 1068815 | 0.87 | cps |
| Iron | 54-2 | 11617468 | 11411069 | 11790776 | 11606438 | 1.64 | cps |
| Iron | 56-2 | 215143370 | 210117770 | 214267997 | 213176379 | 1.26 | cps |
| Iron | 57-2 | 5453327 | 5379849 | 5500156 | 5444444 | 1.11 | cps |
| Krypton | 83-1 | 297 | 317 | 253 | 289 | 11.21 | cps |
| Lead | 206-1 | 64892 | 54681 | 53637 | 57737 | 10.77 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 52637 | 44346 | 42262 | 46415 | 11.82 | cps |
| Lead | 208-1 | 246617 | 208300 | 200551 | 218489 | 11.29 | cps |
| Lithium | 6-1 | 7192417 | 7333686 | 7207180 | 7244428 | 1.07 | cps |
| Magnesium | 24-2 | 19563864 | 19103931 | 19317286 | 19328360 | 1.19 | cps |
| Manganese | 55-2 | 8663 | 8853 | 9106 | 8874 | 2.51 | cps |
| Molybdenum | 94-1 | 7748611 | 7690509 | 7642791 | 7693970 | 0.69 | cps |
| Molybdenum | 95-1 | 13599916 | 13606263 | 13561326 | 13589168 | 0.18 | cps |
| Molybdenum | 96-1 | 14814503 | 14860857 | 15064370 | 14913244 | 0.89 | cps |
| Molybdenum | 97-1 | 8621744 | 8625385 | 8461207 | 8569445 | 1.09 | cps |
| Molybdenum | 98-1 | 22848078 | 22263300 | 22296816 | 22469398 | 1.46 | cps |
| Neodymium | 150-1 | 70 | 110 | 67 | 82 | 29.33 | cps |
| Neodymium | 150-2 | 17 | 17 | 33 | 22 | 43.28 | cps |
| Nickel | 60-2 | 8926 | 9183 | 9026 | 9045 | 1.43 | cps |
| Phosphorus | 31-2 | 273212 | 268495 | 272078 | 271261 | 0.91 | cps |
| Potassium | 39-2 | 10740971 | 10839081 | 10938156 | 10839402 | 0.91 | cps |
| Rhodium | 103-1 | 11091037 | 11066272 | 11136500 | 11097936 | 0.32 | cps |
| Rhodium | 103-2 | 4118795 | 4267954 | 4168100 | 4184950 | 1.82 | cps |
| Scandium | 45-1 | 8686335 | 8565089 | 8713197 | 8654874 | 0.91 | cps |
| Scandium | 45-2 | 158969 | 163607 | 161183 | 161253 | 1.44 | cps |
| Selenium | 82-1 | -7 | -57 | 57 | -2 | -2562.20 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 13 | 10 | 17 | 13 | 25.01 | cps |
| Silicon | 28-1 | 849139 | 856575 | 860771 | 855495 | 0.69 | cps |
| Silver | 107-1 | 1170 | 993 | 857 | 1007 | 15.61 | cps |
| Silver | 109-1 | 1193 | 903 | 687 | 928 | 27.40 | cps |
| Sodium | 23-2 | 41408831 | 41014775 | 41748071 | 41390559 | 0.89 | cps |
| Strontium | 86-1 | 151831 | 152693 | 153809 | 152778 | 0.65 | cps |
| Strontium | 88-1 | 1318947 | 1318716 | 1323401 | 1320355 | 0.20 | cps |
| Sulfur | 34-1 | 6910892 | 6818285 | 6855477 | 6861551 | 0.68 | cps |
| Terbium | 159-1 | 16528813 | 16247633 | 16411006 | 16395817 | 0.86 | cps |
| Terbium | 159-2 | 5000654 | 5073119 | 5033446 | 5035740 | 0.72 | cps |
| Thallium | 203-1 | 1950 | 1887 | 1637 | 1825 | 9.08 | cps |
| Thallium | 205-1 | 4551 | 4454 | 4284 | 4430 | 3.05 | cps |
| Tin | 118-1 | 3827 | 3641 | 3824 | 3764 | 2.84 | cps |
| Titanium | 47-1 | 4436745 | 4493953 | 4483972 | 4471557 | 0.68 | cps |
| Uranium | 238-1 | 837 | 867 | 873 | 859 | 2.27 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSA006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:06:53 | DataFile Name : | 022ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 260 | 293 | 407 | 320 | 24.03 | cps |
| Ytterbium | 172-1 | 127 | 100 | 130 | 119 | 13.83 | cps |
| Ytterbium | 172-2 | 40 | 30 | 23 | 31 | 26.97 | cps |
| Ytterbium | 176-1 | 1427 | 1360 | 1340 | 1376 | 3.30 | cps |
| Ytterbium | 176-2 | 180 | 210 | 210 | 200 | 8.66 | cps |
| Yttrium | 89-1 | 21766787 | 22135678 | 21647513 | 21849993 | 1.16 | cps |
| Yttrium | 89-2 | 1373354 | 1406112 | 1386307 | 1388591 | 1.19 | cps |
| Zinc | 66-2 | 4911 | 4891 | 5144 | 4982 | 2.83 | cps |
| Zirconium | 90-1 | 1003 | 1050 | 953 | 1002 | 4.82 | cps |
| Zirconium | 91-1 | 240 | 260 | 247 | 249 | 4.09 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5129230 | 5100971 | 5047545 | 5092582 | 0.81 | cps |
| Antimony | 121-1 | 295310 | 297610 | 298610 | 297177 | 0.57 | cps |
| Arsenic | 75-2 | 5258 | 5368 | 5358 | 5328 | 1.14 | cps |
| Barium | 135-1 | 70251 | 70948 | 71966 | 71055 | 1.21 | cps |
| Barium | 137-1 | 121806 | 123491 | 122635 | 122644 | 0.69 | cps |
| Beryllium | 9-1 | 103379 | 103043 | 102956 | 103126 | 0.22 | cps |
| Bismuth | 209-1 | 10049467 | 9835767 | 9862895 | 9916043 | 1.17 | cps |
| Bismuth | 209-2 | 3747411 | 3877920 | 3912651 | 3845994 | 2.27 | cps |
| Bromine | 81-1 | 4084 | 4611 | 4728 | 4474 | 7.66 | cps |
| Cadmium | 108-1 | 9116 | 8950 | 9173 | 9080 | 1.28 | cps |
| Cadmium | 106-1 | 11568 | 11205 | 12192 | 11655 | 4.29 | cps |
| Cadmium | 111-1 | 71720 | 72212 | 72643 | 72192 | 0.64 | cps |
| Calcium | 43-1 | 4671642 | 4685373 | 4734975 | 4697330 | 0.71 | cps |
| Calcium | 44-1 | 75251699 | 74070236 | 75543029 | 74954988 | 1.04 | cps |
| Carbon | 12-1 | 41164343 | 42583356 | 42807621 | 42185107 | 2.11 | cps |
| Carbon | 12-2 | 274502 | 277238 | 272079 | 274606 | 0.94 | cps |
| Chlorine | 35-1 | 77983907 | 83646175 | 86108464 | 82579515 | 5.04 | cps |
| Chlorine | 35-2 | 337858 | 341262 | 340865 | 339995 | 0.55 | cps |
| Chromium | 52-2 | 118230 | 117642 | 114816 | 116896 | 1.56 | cps |
| Cobalt | 59-2 | 117775 | 117110 | 116693 | 117193 | 0.47 | cps |
| Copper | 63-2 | 122396 | 120613 | 120862 | 121290 | 0.80 | cps |
| Dysprosium | 156-1 | 117 | 97 | 120 | 111 | 11.36 | cps |
| Dysprosium | 156-2 | 20 | 30 | 17 | 22 | 31.22 | cps |
| Erbium | 164-1 | 163 | 133 | 147 | 148 | 10.17 | cps |
| Erbium | 164-2 | 47 | 40 | 33 | 40 | 16.68 | cps |
| Gadolinium | 160-1 | 163 | 147 | 153 | 154 | 5.43 | cps |
| Gadolinium | 160-2 | 53 | 47 | 33 | 44 | 22.92 | cps |
| Holmium | 165-1 | 15988981 | 16187353 | 16445856 | 16207397 | 1.41 | cps |
| Holmium | 165-2 | 5325180 | 5442973 | 5514458 | 5427537 | 1.76 | cps |
| Indium | 115-1 | 12475686 | 12212462 | 12387681 | 12358610 | 1.08 | cps |
| Indium | 115-2 | 1096388 | 1120854 | 1144920 | 1120721 | 2.17 | cps |
| Iron | 54-2 | 11778542 | 11759953 | 11688797 | 11742431 | 0.40 | cps |
| Iron | 56-2 | 216397577 | 214555450 | 214011950 | 214988326 | 0.58 | cps |
| Iron | 57-2 | 5459893 | 5507446 | 5426742 | 5464694 | 0.74 | cps |
| Krypton | 83-1 | 257 | 327 | 250 | 278 | 15.29 | cps |
| Lead | 206-1 | 269716 | 272552 | 272797 | 271689 | 0.63 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 226775 | 225646 | 229076 | 227166 | 0.77 | cps |
| Lead | 208-1 | 1051024 | 1049647 | 1052387 | 1051019 | 0.13 | cps |
| Lithium | 6-1 | 7090680 | 7190716 | 7241558 | 7174318 | 1.07 | cps |
| Magnesium | 24-2 | 19331126 | 19380586 | 18995807 | 19235840 | 1.09 | cps |
| Manganese | 55-2 | 31187 | 31899 | 31558 | 31548 | 1.13 | cps |
| Molybdenum | 94-1 | 7742578 | 7782369 | 7848122 | 7791023 | 0.68 | cps |
| Molybdenum | 95-1 | 13751002 | 13516864 | 13839813 | 13702560 | 1.22 | cps |
| Molybdenum | 96-1 | 14791737 | 14659614 | 14890828 | 14780726 | 0.78 | cps |
| Molybdenum | 97-1 | 8580578 | 8588298 | 8477703 | 8548860 | 0.72 | cps |
| Molybdenum | 98-1 | 22491296 | 22443810 | 22665538 | 22533548 | 0.52 | cps |
| Neodymium | 150-1 | 77 | 77 | 73 | 76 | 2.55 | cps |
| Neodymium | 150-2 | 27 | 3 | 17 | 16 | 75.27 | cps |
| Nickel | 60-2 | 38201 | 39525 | 38713 | 38813 | 1.72 | cps |
| Phosphorus | 31-2 | 271932 | 274231 | 273422 | 273195 | 0.43 | cps |
| Potassium | 39-2 | 10932421 | 10798088 | 10860334 | 10863614 | 0.62 | cps |
| Rhodium | 103-1 | 11425757 | 11369744 | 11392789 | 11396097 | 0.25 | cps |
| Rhodium | 103-2 | 4295171 | 4397877 | 4402848 | 4365299 | 1.39 | cps |
| Scandium | 45-1 | 8923788 | 8861236 | 8918806 | 8901277 | 0.39 | cps |
| Scandium | 45-2 | 168259 | 170515 | 171304 | 170026 | 0.93 | cps |
| Selenium | 82-1 | 4414 | 4388 | 4441 | 4414 | 0.60 | cps |
| Selenium | 77-2 | 97 | 67 | 77 | 80 | 19.09 | cps |
| Selenium | 78-2 | 237 | 173 | 223 | 211 | 15.81 | cps |
| Silicon | 28-1 | 857488 | 865253 | 870889 | 864543 | 0.78 | cps |
| Silver | 107-1 | 320549 | 322825 | 326453 | 323276 | 0.92 | cps |
| Silver | 109-1 | 303728 | 313884 | 313039 | 310217 | 1.82 | cps |
| Sodium | 23-2 | 41379844 | 41807525 | 41403487 | 41530285 | 0.58 | cps |
| Strontium | 86-1 | 152435 | 152768 | 154386 | 153196 | 0.68 | cps |
| Strontium | 88-1 | 1321256 | 1334140 | 1340426 | 1331941 | 0.73 | cps |
| Sulfur | 34-1 | 6716214 | 6723681 | 6784247 | 6741381 | 0.55 | cps |
| Terbium | 159-1 | 16766439 | 16632839 | 16899931 | 16766403 | 0.80 | cps |
| Terbium | 159-2 | 5084780 | 5171825 | 5446539 | 5234381 | 3.61 | cps |
| Thallium | 203-1 | 272492 | 272578 | 272609 | 272560 | 0.02 | cps |
| Thallium | 205-1 | 652344 | 658084 | 656640 | 655689 | 0.46 | cps |
| Tin | 118-1 | 2947 | 2934 | 2760 | 2880 | 3.62 | cps |
| Titanium | 47-1 | 4495935 | 4510803 | 4519514 | 4508751 | 0.26 | cps |
| Uranium | 238-1 | 753 | 767 | 700 | 740 | 4.77 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB006 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB006 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:29:08 | DataFile Name : | 027ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 45221 | 44873 | 45168 | 45087 | 0.42 | cps |
| Ytterbium | 172-1 | 87 | 130 | 140 | 119 | 23.84 | cps |
| Ytterbium | 172-2 | 47 | 23 | 40 | 37 | 32.79 | cps |
| Ytterbium | 176-1 | 1470 | 1400 | 1467 | 1446 | 2.73 | cps |
| Ytterbium | 176-2 | 227 | 277 | 237 | 247 | 10.73 | cps |
| Yttrium | 89-1 | 22279128 | 22576721 | 22169311 | 22341720 | 0.94 | cps |
| Yttrium | 89-2 | 1443110 | 1491386 | 1489988 | 1474828 | 1.86 | cps |
| Zinc | 66-2 | 14077 | 13830 | 13910 | 13939 | 0.90 | cps |
| Zirconium | 90-1 | 950 | 980 | 983 | 971 | 1.89 | cps |
| Zirconium | 91-1 | 310 | 240 | 220 | 257 | 18.41 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2749460 | 2674553 | 2676262 | 2700092 | 1.58 | cps |
| Antimony | 121-1 | 6649906 | 6819115 | 6688077 | 6719033 | 1.32 | cps |
| Arsenic | 75-2 | 127605 | 126199 | 128220 | 127342 | 0.81 | cps |
| Barium | 135-1 | 8178478 | 8113153 | 7945106 | 8078912 | 1.49 | cps |
| Barium | 137-1 | 13627390 | 13713557 | 13686256 | 13675734 | 0.32 | cps |
| Beryllium | 9-1 | 2343396 | 2359234 | 2366939 | 2356523 | 0.51 | cps |
| Bismuth | 209-1 | 9665611 | 9582507 | 9485586 | 9577901 | 0.94 | cps |
| Bismuth | 209-2 | 3631173 | 3598373 | 3627013 | 3618853 | 0.49 | cps |
| Bromine | 81-1 | 4027 | 4061 | 3734 | 3941 | 4.56 | cps |
| Cadmium | 108-1 | 129623 | 130767 | 131103 | 130498 | 0.59 | cps |
| Cadmium | 106-1 | 186238 | 187664 | 189755 | 187886 | 0.94 | cps |
| Cadmium | 111-1 | 1584312 | 1609076 | 1591377 | 1594922 | 0.80 | cps |
| Calcium | 43-1 | 10803270 | 11149671 | 11013116 | 10988686 | 1.59 | cps |
| Calcium | 44-1 | 171535844 | 178645557 | 174684617 | 174955340 | 2.04 | cps |
| Carbon | 12-1 | 3818966 | 3916477 | 3929304 | 3888249 | 1.55 | cps |
| Carbon | 12-2 | 30171 | 29900 | 29924 | 29998 | 0.50 | cps |
| Chlorine | 35-1 | 4781250 | 4552269 | 4266594 | 4533371 | 5.69 | cps |
| Chlorine | 35-2 | 14434 | 13363 | 13166 | 13654 | 5.00 | cps |
| Chromium | 52-2 | 1428040 | 1423692 | 1416798 | 1422843 | 0.40 | cps |
| Cobalt | 59-2 | 2604483 | 2671928 | 2601097 | 2625836 | 1.52 | cps |
| Copper | 63-2 | 19643901 | 19967121 | 20092468 | 19901163 | 1.16 | cps |
| Dysprosium | 156-1 | 427 | 380 | 403 | 403 | 5.79 | cps |
| Dysprosium | 156-2 | 60 | 87 | 70 | 72 | 18.66 | cps |
| Erbium | 164-1 | 420 | 327 | 387 | 378 | 12.52 | cps |
| Erbium | 164-2 | 113 | 133 | 107 | 118 | 11.79 | cps |
| Gadolinium | 160-1 | 300 | 270 | 297 | 289 | 5.69 | cps |
| Gadolinium | 160-2 | 137 | 87 | 97 | 107 | 24.80 | cps |
| Holmium | 165-1 | 15567645 | 15799719 | 15457999 | 15608454 | 1.12 | cps |
| Holmium | 165-2 | 5063031 | 5234817 | 5120644 | 5139497 | 1.70 | cps |
| Indium | 115-1 | 11471691 | 12002670 | 11912961 | 11795774 | 2.41 | cps |
| Indium | 115-2 | 1053256 | 1056793 | 1057877 | 1055976 | 0.23 | cps |
| Iron | 54-2 | 13817059 | 13709422 | 13799595 | 13775359 | 0.42 | cps |
| Iron | 56-2 | 249151150 | 252388903 | 252462683 | 251334245 | 0.75 | cps |
| Iron | 57-2 | 6349663 | 6413968 | 6276635 | 6346756 | 1.08 | cps |
| Krypton | 83-1 | 287 | 303 | 370 | 320 | 13.78 | cps |
| Lead | 206-1 | 26188953 | 26318165 | 26166153 | 26224423 | 0.31 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 22998835 | 22638182 | 22728476 | 22788498 | 0.82 | cps |
| Lead | 208-1 | 106121573 | 104806489 | 104786023 | 105238028 | 0.73 | cps |
| Lithium | 6-1 | 6854947 | 6795194 | 6833475 | 6827872 | 0.44 | cps |
| Magnesium | 24-2 | 48457539 | 47802341 | 48511773 | 48257218 | 0.82 | cps |
| Manganese | 55-2 | 5612446 | 5652891 | 5535538 | 5600291 | 1.06 | cps |
| Molybdenum | 94-1 | 23631568 | 23598263 | 23392738 | 23540856 | 0.55 | cps |
| Molybdenum | 95-1 | 33940073 | 34314387 | 34147496 | 34133985 | 0.55 | cps |
| Molybdenum | 96-1 | 37052079 | 37634799 | 37661818 | 37449566 | 0.92 | cps |
| Molybdenum | 97-1 | 21329563 | 21292428 | 21298359 | 21306783 | 0.09 | cps |
| Molybdenum | 98-1 | 54998253 | 54818729 | 55497098 | 55104693 | 0.64 | cps |
| Neodymium | 150-1 | 597 | 493 | 540 | 543 | 9.52 | cps |
| Neodymium | 150-2 | 67 | 37 | 47 | 50 | 30.55 | cps |
| Nickel | 60-2 | 691353 | 694225 | 687021 | 690866 | 0.52 | cps |
| Phosphorus | 31-2 | 27212 | 26140 | 26304 | 26552 | 2.18 | cps |
| Potassium | 39-2 | 13333571 | 13204021 | 13071388 | 13202993 | 0.99 | cps |
| Rhodium | 103-1 | 10757602 | 10822339 | 10964413 | 10848118 | 0.98 | cps |
| Rhodium | 103-2 | 4057483 | 4089915 | 4027588 | 4058329 | 0.77 | cps |
| Scandium | 45-1 | 8654027 | 8675163 | 8600934 | 8643375 | 0.44 | cps |
| Scandium | 45-2 | 164675 | 164816 | 164160 | 164550 | 0.21 | cps |
| Selenium | 82-1 | 101029 | 102077 | 101086 | 101397 | 0.58 | cps |
| Selenium | 77-2 | 1537 | 1540 | 1623 | 1567 | 3.13 | cps |
| Selenium | 78-2 | 5328 | 5198 | 5298 | 5274 | 1.29 | cps |
| Silicon | 28-1 | 6076563 | 6136762 | 6026352 | 6079892 | 0.91 | cps |
| Silver | 107-1 | 7890303 | 7958480 | 8094888 | 7981224 | 1.31 | cps |
| Silver | 109-1 | 7606538 | 7710547 | 7717758 | 7678281 | 0.81 | cps |
| Sodium | 23-2 | 100114759 | 98644179 | 98572175 | 99110371 | 0.88 | cps |
| Strontium | 86-1 | 2228173 | 2215913 | 2216930 | 2220339 | 0.31 | cps |
| Strontium | 88-1 | 19071883 | 19208656 | 19499003 | 19259847 | 1.13 | cps |
| Sulfur | 34-1 | 1336520 | 1359501 | 1315216 | 1337079 | 1.66 | cps |
| Terbium | 159-1 | 15977187 | 16317824 | 15885510 | 16060174 | 1.42 | cps |
| Terbium | 159-2 | 4969759 | 4985106 | 4997132 | 4983999 | 0.28 | cps |
| Thallium | 203-1 | 6378111 | 6479788 | 6507993 | 6455297 | 1.06 | cps |
| Thallium | 205-1 | 15329484 | 15733210 | 15318045 | 15460246 | 1.53 | cps |
| Tin | 118-1 | 5260867 | 5401620 | 5273433 | 5311973 | 1.47 | cps |
| Titanium | 47-1 | 10700753 | 10609901 | 10544764 | 10618473 | 0.74 | cps |
| Uranium | 238-1 | 22669046 | 22053724 | 22279706 | 22334159 | 1.39 | cps |

Reviewed By:kareem
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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:32:26 | DataFile Name : | 028CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1103325 | 1101643 | 1096483 | 1100484 | 0.32 | cps |
| Ytterbium | 172-1 | 420 | 403 | 383 | 402 | 4.56 | cps |
| Ytterbium | 172-2 | 130 | 163 | 160 | 151 | 12.15 | cps |
| Ytterbium | 176-1 | 33068 | 32757 | 33870 | 33232 | 1.73 | cps |
| Ytterbium | 176-2 | 10584 | 10728 | 10518 | 10610 | 1.01 | cps |
| Yttrium | 89-1 | 21712594 | 21445922 | 21785849 | 21648122 | 0.83 | cps |
| Yttrium | 89-2 | 1384265 | 1440088 | 1427126 | 1417159 | 2.06 | cps |
| Zinc | 66-2 | 2138604 | 2113203 | 2134806 | 2128871 | 0.64 | cps |
| Zirconium | 90-1 | 12074012 | 11979246 | 12025688 | 12026315 | 0.39 | cps |
| Zirconium | 91-1 | 2692566 | 2687977 | 2639408 | 2673317 | 1.10 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 170 | 163 | 170 | 168 | 2.29 | cps |
| Antimony | 121-1 | 2110 | 1837 | 1767 | 1905 | 9.53 | cps |
| Arsenic | 75-2 | 10 | 10 | 10 | 10 | 0.00 | cps |
| Barium | 135-1 | 653 | 677 | 540 | 623 | 11.73 | cps |
| Barium | 137-1 | 993 | 963 | 880 | 946 | 6.21 | cps |
| Beryllium | 9-1 | 1116 | 1101 | 1084 | 1100 | 1.48 | cps |
| Bismuth | 209-1 | 10952682 | 10912518 | 10641825 | 10835675 | 1.56 | cps |
| Bismuth | 209-2 | 4000209 | 4156363 | 3991103 | 4049225 | 2.29 | cps |
| Bromine | 81-1 | 3717 | 3591 | 3867 | 3725 | 3.72 | cps |
| Cadmium | 108-1 | 63 | 37 | 57 | 52 | 26.57 | cps |
| Cadmium | 106-1 | 6615 | 6375 | 6295 | 6428 | 2.59 | cps |
| Cadmium | 111-1 | 4720 | 4547 | 4490 | 4585 | 2.61 | cps |
| Calcium | 43-1 | 840 | 790 | 663 | 764 | 11.91 | cps |
| Calcium | 44-1 | 28843 | 26995 | 25987 | 27275 | 5.31 | cps |
| Carbon | 12-1 | 2853044 | 2873915 | 2822814 | 2849924 | 0.90 | cps |
| Carbon | 12-2 | 18155 | 17874 | 17858 | 17962 | 0.93 | cps |
| Chlorine | 35-1 | 2443764 | 2288058 | 2220436 | 2317420 | 4.94 | cps |
| Chlorine | 35-2 | 7505 | 7052 | 6882 | 7146 | 4.51 | cps |
| Chromium | 52-2 | 2057 | 1920 | 2130 | 2036 | 5.24 | cps |
| Cobalt | 59-2 | 260 | 250 | 273 | 261 | 4.48 | cps |
| Copper | 63-2 | 2690 | 2884 | 2547 | 2707 | 6.24 | cps |
| Dysprosium | 156-1 | 67 | 40 | 37 | 48 | 34.42 | cps |
| Dysprosium | 156-2 | 17 | 0 | 0 | 6 | 173.21 | cps |
| Erbium | 164-1 | 60 | 70 | 97 | 76 | 25.09 | cps |
| Erbium | 164-2 | 20 | 13 | 27 | 20 | 33.35 | cps |
| Gadolinium | 160-1 | 63 | 80 | 107 | 83 | 26.23 | cps |
| Gadolinium | 160-2 | 23 | 10 | 10 | 14 | 53.28 | cps |
| Holmium | 165-1 | 16778245 | 16598074 | 16219751 | 16532024 | 1.72 | cps |
| Holmium | 165-2 | 5398642 | 5384973 | 5342063 | 5375226 | 0.55 | cps |
| Indium | 115-1 | 13052627 | 13049134 | 13143294 | 13081685 | 0.41 | cps |
| Indium | 115-2 | 1137978 | 1132636 | 1131327 | 1133980 | 0.31 | cps |
| Iron | 54-2 | 970 | 1080 | 1017 | 1022 | 5.40 | cps |
| Iron | 56-2 | 17257 | 17828 | 16923 | 17336 | 2.64 | cps |
| Iron | 57-2 | 403 | 417 | 413 | 411 | 1.69 | cps |
| Krypton | 83-1 | 290 | 257 | 267 | 271 | 6.31 | cps |
| Lead | 206-1 | 4044 | 3967 | 3637 | 3883 | 5.57 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3754 | 3410 | 3314 | 3493 | 6.62 | cps |
| Lead | 208-1 | 17365 | 16101 | 14793 | 16086 | 7.99 | cps |
| Lithium | 6-1 | 7419146 | 7381815 | 7391811 | 7397591 | 0.26 | cps |
| Magnesium | 24-2 | 2844 | 2917 | 2967 | 2909 | 2.13 | cps |
| Manganese | 55-2 | 427 | 360 | 413 | 400 | 8.82 | cps |
| Molybdenum | 94-1 | 1857 | 1507 | 1440 | 1601 | 13.98 | cps |
| Molybdenum | 95-1 | 2150 | 1893 | 1477 | 1840 | 18.47 | cps |
| Molybdenum | 96-1 | 2584 | 1967 | 1900 | 2150 | 17.52 | cps |
| Molybdenum | 97-1 | 1420 | 1127 | 1057 | 1201 | 16.05 | cps |
| Molybdenum | 98-1 | 3300 | 2890 | 2757 | 2983 | 9.49 | cps |
| Neodymium | 150-1 | 47 | 33 | 17 | 32 | 46.65 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 1030 | 1130 | 1027 | 1062 | 5.53 | cps |
| Phosphorus | 31-2 | 77 | 90 | 87 | 84 | 8.22 | cps |
| Potassium | 39-2 | 12943 | 12586 | 12269 | 12599 | 2.68 | cps |
| Rhodium | 103-1 | 12578614 | 12352582 | 12744080 | 12558426 | 1.56 | cps |
| Rhodium | 103-2 | 4555140 | 4707537 | 4569545 | 4610741 | 1.82 | cps |
| Scandium | 45-1 | 9133818 | 9284284 | 9136583 | 9184895 | 0.94 | cps |
| Scandium | 45-2 | 165538 | 165471 | 164496 | 165168 | 0.35 | cps |
| Selenium | 82-1 | -37 | 43 | 0 | 2 | 1801.41 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 7 | 10 | 3 | 7 | 50.03 | cps |
| Silicon | 28-1 | 510037 | 508093 | 507592 | 508574 | 0.25 | cps |
| Silver | 107-1 | 1213 | 1160 | 1213 | 1196 | 2.58 | cps |
| Silver | 109-1 | 990 | 1183 | 1027 | 1067 | 9.63 | cps |
| Sodium | 23-2 | 89026 | 89157 | 86940 | 88374 | 1.41 | cps |
| Strontium | 86-1 | 637 | 603 | 613 | 618 | 2.77 | cps |
| Strontium | 88-1 | 1643 | 1477 | 1193 | 1438 | 15.82 | cps |
| Sulfur | 34-1 | 744804 | 745385 | 747920 | 746036 | 0.22 | cps |
| Terbium | 159-1 | 16865823 | 17451230 | 16959695 | 17092249 | 1.84 | cps |
| Terbium | 159-2 | 5049615 | 5166789 | 5134653 | 5117019 | 1.18 | cps |
| Thallium | 203-1 | 1603 | 1437 | 1453 | 1498 | 6.13 | cps |
| Thallium | 205-1 | 4071 | 3591 | 3601 | 3754 | 7.31 | cps |
| Tin | 118-1 | 2397 | 2314 | 2204 | 2305 | 4.21 | cps |
| Titanium | 47-1 | 703 | 490 | 510 | 568 | 20.75 | cps |
| Uranium | 238-1 | 717 | 480 | 413 | 537 | 29.70 | cps |



1430

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB025 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB025 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:35:11 | DataFile Name : | 029CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 17 | 33 | 7 | 19 | 71.30 | cps |
| Ytterbium | 172-1 | 83 | 90 | 103 | 92 | 11.05 | cps |
| Ytterbium | 172-2 | 43 | 23 | 33 | 33 | 30.00 | cps |
| Ytterbium | 176-1 | 1527 | 1687 | 1513 | 1576 | 6.12 | cps |
| Ytterbium | 176-2 | 187 | 270 | 213 | 223 | 19.06 | cps |
| Yttrium | 89-1 | 23330454 | 22752620 | 22574944 | 22886006 | 1.73 | cps |
| Yttrium | 89-2 | 1464848 | 1452338 | 1463585 | 1460257 | 0.47 | cps |
| Zinc | 66-2 | 257 | 250 | 170 | 226 | 21.38 | cps |
| Zirconium | 90-1 | 1273 | 997 | 1007 | 1092 | 14.37 | cps |
| Zirconium | 91-1 | 310 | 260 | 260 | 277 | 10.43 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1818343 | 1818021 | 1841326 | 1825897 | 0.73 | cps |
| Antimony | 121-1 | 21233 | 22098 | 21994 | 21775 | 2.17 | cps |
| Arsenic | 75-2 | 18409 | 19150 | 18529 | 18696 | 2.13 | cps |
| Barium | 135-1 | 295214 | 295008 | 294096 | 294773 | 0.20 | cps |
| Barium | 137-1 | 509478 | 510711 | 516260 | 512149 | 0.71 | cps |
| Beryllium | 9-1 | 3424 | 3347 | 3305 | 3359 | 1.79 | cps |
| Bismuth | 209-1 | 10648392 | 10800704 | 10663540 | 10704212 | 0.78 | cps |
| Bismuth | 209-2 | 4014244 | 4000209 | 4083687 | 4032713 | 1.11 | cps |
| Bromine | 81-1 | 4704 | 5041 | 5038 | 4928 | 3.93 | cps |
| Cadmium | 108-1 | 350 | 337 | 380 | 356 | 6.24 | cps |
| Cadmium | 106-1 | 6702 | 6728 | 6782 | 6737 | 0.60 | cps |
| Cadmium | 111-1 | 7166 | 7164 | 7225 | 7185 | 0.48 | cps |
| Calcium | 43-1 | 236355 | 239436 | 235801 | 237197 | 0.83 | cps |
| Calcium | 44-1 | 3914778 | 3821155 | 3759521 | 3831818 | 2.04 | cps |
| Carbon | 12-1 | 2928485 | 2953635 | 2935638 | 2939253 | 0.44 | cps |
| Carbon | 12-2 | 19536 | 19506 | 19904 | 19649 | 1.13 | cps |
| Chlorine | 35-1 | 159511141 | 170544617 | 177463544 | 169173101 | 5.35 | cps |
| Chlorine | 35-2 | 696412 | 711830 | 702614 | 703618 | 1.10 | cps |
| Chromium | 52-2 | 164234 | 165053 | 161736 | 163674 | 1.06 | cps |
| Cobalt | 59-2 | 225661 | 229572 | 225455 | 226896 | 1.02 | cps |
| Copper | 63-2 | 581980 | 585077 | 582111 | 583056 | 0.30 | cps |
| Dysprosium | 156-1 | 66531 | 66106 | 67667 | 66768 | 1.21 | cps |
| Dysprosium | 156-2 | 23170 | 23200 | 22679 | 23017 | 1.27 | cps |
| Erbium | 164-1 | 68974 | 68408 | 70254 | 69212 | 1.37 | cps |
| Erbium | 164-2 | 21444 | 21574 | 20997 | 21338 | 1.42 | cps |
| Gadolinium | 160-1 | 72295 | 72298 | 72660 | 72417 | 0.29 | cps |
| Gadolinium | 160-2 | 27358 | 27736 | 28270 | 27788 | 1.65 | cps |
| Holmium | 165-1 | 16572049 | 16302766 | 16594015 | 16489610 | 0.98 | cps |
| Holmium | 165-2 | 5273552 | 5382959 | 5525191 | 5393901 | 2.34 | cps |
| Indium | 115-1 | 13022252 | 12688906 | 12878956 | 12863371 | 1.30 | cps |
| Indium | 115-2 | 1128686 | 1126992 | 1159938 | 1138539 | 1.63 | cps |
| Iron | 54-2 | 11195511 | 11321991 | 11046307 | 11187936 | 1.23 | cps |
| Iron | 56-2 | 206952444 | 207591884 | 203545604 | 206029977 | 1.06 | cps |
| Iron | 57-2 | 5195912 | 5262052 | 5104539 | 5187501 | 1.52 | cps |
| Krypton | 83-1 | 410 | 370 | 420 | 400 | 6.61 | cps |
| Lead | 206-1 | 340826 | 344339 | 342545 | 342570 | 0.51 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 282327 | 281287 | 279323 | 280979 | 0.54 | cps |
| Lead | 208-1 | 1321861 | 1330041 | 1326262 | 1326055 | 0.31 | cps |
| Lithium | 6-1 | 7765485 | 7778735 | 7632375 | 7725532 | 1.05 | cps |
| Magnesium | 24-2 | 3596349 | 3582318 | 3535622 | 3571430 | 0.89 | cps |
| Manganese | 55-2 | 1042560 | 1053941 | 1032983 | 1043161 | 1.01 | cps |
| Molybdenum | 94-1 | 24842 | 25143 | 24692 | 24892 | 0.92 | cps |
| Molybdenum | 95-1 | 25857 | 25417 | 25777 | 25684 | 0.91 | cps |
| Molybdenum | 96-1 | 30300 | 30630 | 29201 | 30044 | 2.49 | cps |
| Molybdenum | 97-1 | 15956 | 16149 | 16109 | 16072 | 0.64 | cps |
| Molybdenum | 98-1 | 41749 | 42244 | 41626 | 41873 | 0.78 | cps |
| Neodymium | 150-1 | 61410 | 61711 | 61942 | 61688 | 0.43 | cps |
| Neodymium | 150-2 | 13914 | 13627 | 13620 | 13720 | 1.22 | cps |
| Nickel | 60-2 | 217217 | 220055 | 220059 | 219110 | 0.75 | cps |
| Phosphorus | 31-2 | 4461 | 4821 | 4647 | 4643 | 3.88 | cps |
| Potassium | 39-2 | 145932 | 148020 | 146067 | 146673 | 0.80 | cps |
| Rhodium | 103-1 | 12266904 | 12162508 | 12215479 | 12214964 | 0.43 | cps |
| Rhodium | 103-2 | 4598512 | 4576913 | 4650618 | 4608681 | 0.82 | cps |
| Scandium | 45-1 | 9457360 | 9253365 | 9212917 | 9307881 | 1.41 | cps |
| Scandium | 45-2 | 168982 | 172650 | 173668 | 171767 | 1.43 | cps |
| Selenium | 82-1 | 757 | 797 | 720 | 758 | 5.06 | cps |
| Selenium | 77-2 | 73 | 130 | 103 | 102 | 27.73 | cps |
| Selenium | 78-2 | 140 | 90 | 107 | 112 | 22.69 | cps |
| Silicon | 28-1 | 85858599 | 87633195 | 86970512 | 86820769 | 1.03 | cps |
| Silver | 107-1 | 9847 | 9363 | 9210 | 9473 | 3.51 | cps |
| Silver | 109-1 | 9153 | 8853 | 9020 | 9009 | 1.67 | cps |
| Sodium | 23-2 | 149948 | 151348 | 149456 | 150251 | 0.65 | cps |
| Strontium | 86-1 | 236437 | 241508 | 242765 | 240237 | 1.39 | cps |
| Strontium | 88-1 | 2103669 | 2140406 | 2201867 | 2148647 | 2.31 | cps |
| Sulfur | 34-1 | 736283 | 734735 | 734024 | 735014 | 0.16 | cps |
| Terbium | 159-1 | 16889704 | 17155653 | 17050230 | 17031862 | 0.79 | cps |
| Terbium | 159-2 | 5093831 | 5219034 | 5293598 | 5202154 | 1.94 | cps |
| Thallium | 203-1 | 7339 | 8806 | 10775 | 8973 | 19.21 | cps |
| Thallium | 205-1 | 18153 | 20703 | 26360 | 21739 | 19.32 | cps |
| Tin | 118-1 | 3764 | 3927 | 4241 | 3977 | 6.09 | cps |
| Titanium | 47-1 | 45562 | 45512 | 46157 | 45744 | 0.78 | cps |
| Uranium | 238-1 | 64204 | 63317 | 64302 | 63941 | 0.85 | cps |

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Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-04 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:38:34 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 136345 | 137150 | 135343 | 136279 | 0.66 | cps |
| Ytterbium | 172-1 | 18159 | 17832 | 18096 | 18029 | 0.96 | cps |
| Ytterbium | 172-2 | 6742 | 6872 | 7095 | 6903 | 2.59 | cps |
| Ytterbium | 176-1 | 12670 | 12826 | 12750 | 12748 | 0.62 | cps |
| Ytterbium | 176-2 | 4477 | 4434 | 4377 | 4430 | 1.13 | cps |
| Yttrium | 89-1 | 23921987 | 23976936 | 23725808 | 23874910 | 0.55 | cps |
| Yttrium | 89-2 | 1556812 | 1509469 | 1559604 | 1541962 | 1.83 | cps |
| Zinc | 66-2 | 104475 | 105754 | 105072 | 105100 | 0.61 | cps |
| Zirconium | 90-1 | 29946 | 30380 | 30734 | 30353 | 1.30 | cps |
| Zirconium | 91-1 | 6788 | 6915 | 6752 | 6818 | 1.26 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

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|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 299757 | 298233 | 294757 | 297582 | 0.86 | cps |
| Antimony | 121-1 | 86891 | 87692 | 86733 | 87105 | 0.59 | cps |
| Arsenic | 75-2 | 98031 | 99334 | 97118 | 98161 | 1.13 | cps |
| Barium | 135-1 | 209484 | 206073 | 207418 | 207658 | 0.83 | cps |
| Barium | 137-1 | 357229 | 357778 | 355258 | 356755 | 0.37 | cps |
| Beryllium | 9-1 | 3684 | 3590 | 3616 | 3630 | 1.33 | cps |
| Bismuth | 209-1 | 10644601 | 10682224 | 10478608 | 10601811 | 1.02 | cps |
| Bismuth | 209-2 | 4131408 | 3858820 | 3981543 | 3990590 | 3.42 | cps |
| Bromine | 81-1 | 4677 | 4934 | 4978 | 4863 | 3.34 | cps |
| Cadmium | 108-1 | 297 | 280 | 317 | 298 | 6.16 | cps |
| Cadmium | 106-1 | 7072 | 7105 | 7199 | 7125 | 0.92 | cps |
| Cadmium | 111-1 | 6363 | 6351 | 6284 | 6333 | 0.67 | cps |
| Calcium | 43-1 | 3145014 | 3152753 | 3103137 | 3133635 | 0.85 | cps |
| Calcium | 44-1 | 49852394 | 48984149 | 49645518 | 49494020 | 0.92 | cps |
| Carbon | 12-1 | 2984120 | 3002143 | 3007701 | 2997988 | 0.41 | cps |
| Carbon | 12-2 | 19450 | 19657 | 19830 | 19645 | 0.97 | cps |
| Chlorine | 35-1 | 166297664 | 176613964 | 180898197 | 174603275 | 4.30 | cps |
| Chlorine | 35-2 | 712503 | 709496 | 705225 | 709075 | 0.52 | cps |
| Chromium | 52-2 | 21082 | 21466 | 21263 | 21270 | 0.90 | cps |
| Cobalt | 59-2 | 233050 | 233288 | 232166 | 232835 | 0.25 | cps |
| Copper | 63-2 | 848978 | 856655 | 851598 | 852410 | 0.46 | cps |
| Dysprosium | 156-1 | 58353 | 58236 | 58825 | 58472 | 0.53 | cps |
| Dysprosium | 156-2 | 20950 | 20626 | 20853 | 20810 | 0.80 | cps |
| Erbium | 164-1 | 85774 | 85274 | 83923 | 84990 | 1.13 | cps |
| Erbium | 164-2 | 26373 | 26172 | 25698 | 26081 | 1.33 | cps |
| Gadolinium | 160-1 | 65389 | 66180 | 65144 | 65571 | 0.83 | cps |
| Gadolinium | 160-2 | 25454 | 25054 | 25668 | 25392 | 1.23 | cps |
| Holmium | 165-1 | 16742339 | 16890958 | 16490375 | 16707891 | 1.21 | cps |
| Holmium | 165-2 | 5556648 | 5111685 | 5286168 | 5318167 | 4.22 | cps |
| Indium | 115-1 | 12922883 | 12968370 | 12982482 | 12957912 | 0.24 | cps |
| Indium | 115-2 | 1171640 | 1068782 | 1120336 | 1120253 | 4.59 | cps |
| Iron | 54-2 | 9855934 | 9733750 | 9638030 | 9742571 | 1.12 | cps |
| Iron | 56-2 | 181790397 | 183997537 | 180045457 | 181944464 | 1.09 | cps |
| Iron | 57-2 | 4621844 | 4625368 | 4520349 | 4589187 | 1.30 | cps |
| Krypton | 83-1 | 377 | 523 | 443 | 448 | 16.40 | cps |
| Lead | 206-1 | 622578 | 615405 | 607822 | 615268 | 1.20 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 508965 | 513965 | 512757 | 511896 | 0.51 | cps |
| Lead | 208-1 | 2404311 | 2400237 | 2375610 | 2393386 | 0.65 | cps |
| Lithium | 6-1 | 7665532 | 7651019 | 7729771 | 7682108 | 0.55 | cps |
| Magnesium | 24-2 | 4105871 | 4135133 | 4140243 | 4127082 | 0.45 | cps |
| Manganese | 55-2 | 1354776 | 1392605 | 1331679 | 1359687 | 2.26 | cps |
| Molybdenum | 94-1 | 31863 | 31218 | 31282 | 31455 | 1.13 | cps |
| Molybdenum | 95-1 | 25684 | 25741 | 24996 | 25473 | 1.63 | cps |
| Molybdenum | 96-1 | 30831 | 30647 | 30908 | 30795 | 0.43 | cps |
| Molybdenum | 97-1 | 15786 | 16006 | 15729 | 15840 | 0.92 | cps |
| Molybdenum | 98-1 | 42127 | 41231 | 42589 | 41982 | 1.64 | cps |
| Neodymium | 150-1 | 46778 | 48046 | 47390 | 47404 | 1.34 | cps |
| Neodymium | 150-2 | 10638 | 10604 | 10221 | 10488 | 2.21 | cps |
| Nickel | 60-2 | 276552 | 278497 | 276582 | 277210 | 0.40 | cps |
| Phosphorus | 31-2 | 4334 | 4371 | 4284 | 4330 | 1.01 | cps |
| Potassium | 39-2 | 200767 | 199109 | 198590 | 199489 | 0.57 | cps |
| Rhodium | 103-1 | 12339861 | 12171701 | 12079401 | 12196988 | 1.08 | cps |
| Rhodium | 103-2 | 4712473 | 4265714 | 4428385 | 4468857 | 5.06 | cps |
| Scandium | 45-1 | 9555028 | 9488587 | 9490636 | 9511417 | 0.40 | cps |
| Scandium | 45-2 | 179575 | 159716 | 169190 | 169493 | 5.86 | cps |
| Selenium | 82-1 | 1310 | 1213 | 1293 | 1272 | 4.06 | cps |
| Selenium | 77-2 | 100 | 60 | 73 | 78 | 26.19 | cps |
| Selenium | 78-2 | 117 | 117 | 127 | 120 | 4.81 | cps |
| Silicon | 28-1 | 52590356 | 53150901 | 52955718 | 52898991 | 0.54 | cps |
| Silver | 107-1 | 39814 | 39640 | 40372 | 39942 | 0.96 | cps |
| Silver | 109-1 | 37949 | 38424 | 38266 | 38213 | 0.63 | cps |
| Sodium | 23-2 | 159497 | 159329 | 159180 | 159335 | 0.10 | cps |
| Strontium | 86-1 | 3601847 | 3643150 | 3522595 | 3589197 | 1.71 | cps |
| Strontium | 88-1 | 31089285 | 30817277 | 30943901 | 30950154 | 0.44 | cps |
| Sulfur | 34-1 | 2934625 | 2963315 | 2941389 | 2946443 | 0.51 | cps |
| Terbium | 159-1 | 17168073 | 16998934 | 16817192 | 16994733 | 1.03 | cps |
| Terbium | 159-2 | 5347413 | 4913991 | 5117207 | 5126204 | 4.23 | cps |
| Thallium | 203-1 | 4621 | 5488 | 6081 | 5397 | 13.61 | cps |
| Thallium | 205-1 | 10751 | 12700 | 14441 | 12631 | 14.62 | cps |
| Tin | 118-1 | 3387 | 3794 | 3741 | 3641 | 6.07 | cps |
| Titanium | 47-1 | 10934 | 11064 | 17785 | 13261 | 29.55 | cps |
| Uranium | 238-1 | 47963 | 47736 | 47455 | 47718 | 0.53 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-05 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8D3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:41:50 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 16403 | 16189 | 16356 | 16316 | 0.69 | cps |
| Ytterbium | 172-1 | 28678 | 28942 | 28825 | 28815 | 0.46 | cps |
| Ytterbium | 172-2 | 10988 | 10998 | 10931 | 10972 | 0.33 | cps |
| Ytterbium | 176-1 | 19141 | 19551 | 19221 | 19304 | 1.13 | cps |
| Ytterbium | 176-2 | 7536 | 7012 | 7162 | 7237 | 3.73 | cps |
| Yttrium | 89-1 | 24206784 | 24301355 | 24024140 | 24177426 | 0.58 | cps |
| Yttrium | 89-2 | 1636409 | 1463389 | 1532480 | 1544093 | 5.64 | cps |
| Zinc | 66-2 | 56994 | 58145 | 57131 | 57423 | 1.10 | cps |
| Zirconium | 90-1 | 48247 | 47798 | 47303 | 47783 | 0.99 | cps |
| Zirconium | 91-1 | 11595 | 11285 | 11418 | 11433 | 1.36 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 981916 | 989460 | 977890 | 983089 | 0.60 | cps |
| Antimony | 121-1 | 12176 | 11905 | 11975 | 12019 | 1.17 | cps |
| Arsenic | 75-2 | 2610 | 2524 | 2457 | 2530 | 3.04 | cps |
| Barium | 135-1 | 162978 | 164990 | 163235 | 163734 | 0.67 | cps |
| Barium | 137-1 | 287350 | 281748 | 281193 | 283430 | 1.20 | cps |
| Beryllium | 9-1 | 2022 | 2085 | 2156 | 2088 | 3.21 | cps |
| Bismuth | 209-1 | 10947718 | 10703938 | 10624841 | 10758832 | 1.56 | cps |
| Bismuth | 209-2 | 3870784 | 3958224 | 3908709 | 3912572 | 1.12 | cps |
| Bromine | 81-1 | 4831 | 4831 | 4838 | 4833 | 0.08 | cps |
| Cadmium | 108-1 | 180 | 110 | 163 | 151 | 24.20 | cps |
| Cadmium | 106-1 | 6575 | 6422 | 6472 | 6489 | 1.21 | cps |
| Cadmium | 111-1 | 5270 | 5181 | 5252 | 5235 | 0.89 | cps |
| Calcium | 43-1 | 95209 | 94044 | 95494 | 94916 | 0.81 | cps |
| Calcium | 44-1 | 1600097 | 1575392 | 1576537 | 1584009 | 0.88 | cps |
| Carbon | 12-1 | 3477059 | 3474276 | 3499195 | 3483510 | 0.39 | cps |
| Carbon | 12-2 | 22167 | 22607 | 21786 | 22187 | 1.85 | cps |
| Chlorine | 35-1 | 171839531 | 182044197 | 188176571 | 180686766 | 4.57 | cps |
| Chlorine | 35-2 | 715409 | 721425 | 720227 | 719020 | 0.44 | cps |
| Chromium | 52-2 | 27673 | 27620 | 28184 | 27826 | 1.12 | cps |
| Cobalt | 59-2 | 61358 | 62533 | 61783 | 61892 | 0.96 | cps |
| Copper | 63-2 | 293019 | 288165 | 292654 | 291279 | 0.93 | cps |
| Dysprosium | 156-1 | 60717 | 59987 | 59586 | 60096 | 0.95 | cps |
| Dysprosium | 156-2 | 17074 | 16637 | 16317 | 16676 | 2.28 | cps |
| Erbium | 164-1 | 28818 | 29052 | 28965 | 28945 | 0.41 | cps |
| Erbium | 164-2 | 8663 | 8683 | 8836 | 8727 | 1.09 | cps |
| Gadolinium | 160-1 | 50288 | 50003 | 49793 | 50028 | 0.50 | cps |
| Gadolinium | 160-2 | 18950 | 19297 | 19097 | 19115 | 0.91 | cps |
| Holmium | 165-1 | 16932575 | 16288201 | 16086064 | 16435614 | 2.69 | cps |
| Holmium | 165-2 | 5187049 | 5194050 | 5217250 | 5199450 | 0.30 | cps |
| Indium | 115-1 | 13285562 | 13031402 | 12936855 | 13084606 | 1.38 | cps |
| Indium | 115-2 | 1066601 | 1097948 | 1100401 | 1088317 | 1.73 | cps |
| Iron | 54-2 | 3997669 | 3877972 | 3919097 | 3931579 | 1.55 | cps |
| Iron | 56-2 | 72442289 | 73625366 | 73062731 | 73043462 | 0.81 | cps |
| Iron | 57-2 | 1892371 | 1857322 | 1855379 | 1868357 | 1.11 | cps |
| Krypton | 83-1 | 363 | 357 | 347 | 356 | 2.36 | cps |
| Lead | 206-1 | 245441 | 247571 | 245492 | 246168 | 0.49 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 203112 | 202711 | 201899 | 202574 | 0.31 | cps |
| Lead | 208-1 | 951677 | 954436 | 953203 | 953105 | 0.14 | cps |
| Lithium | 6-1 | 7803160 | 7779142 | 7872240 | 7818181 | 0.62 | cps |
| Magnesium | 24-2 | 2882967 | 2850698 | 2885733 | 2873133 | 0.68 | cps |
| Manganese | 55-2 | 165490 | 165641 | 163608 | 164913 | 0.69 | cps |
| Molybdenum | 94-1 | 27682 | 25998 | 25751 | 26477 | 3.97 | cps |
| Molybdenum | 95-1 | 27988 | 27825 | 27714 | 27842 | 0.50 | cps |
| Molybdenum | 96-1 | 31810 | 32157 | 31770 | 31912 | 0.67 | cps |
| Molybdenum | 97-1 | 17608 | 17741 | 17955 | 17768 | 0.99 | cps |
| Molybdenum | 98-1 | 45257 | 46364 | 45795 | 45805 | 1.21 | cps |
| Neodymium | 150-1 | 96386 | 93033 | 93848 | 94423 | 1.85 | cps |
| Neodymium | 150-2 | 20673 | 20576 | 20599 | 20616 | 0.25 | cps |
| Nickel | 60-2 | 51697 | 50493 | 50994 | 51061 | 1.18 | cps |
| Phosphorus | 31-2 | 1587 | 1737 | 1683 | 1669 | 4.56 | cps |
| Potassium | 39-2 | 125268 | 126767 | 125410 | 125815 | 0.66 | cps |
| Rhodium | 103-1 | 12397733 | 12317511 | 12341859 | 12352368 | 0.33 | cps |
| Rhodium | 103-2 | 4318520 | 4426092 | 4516984 | 4420532 | 2.25 | cps |
| Scandium | 45-1 | 9437304 | 9292185 | 9291119 | 9340203 | 0.90 | cps |
| Scandium | 45-2 | 157655 | 162471 | 167848 | 162658 | 3.13 | cps |
| Selenium | 82-1 | 210 | 227 | 230 | 222 | 4.82 | cps |
| Selenium | 77-2 | 83 | 93 | 93 | 90 | 6.42 | cps |
| Selenium | 78-2 | 97 | 57 | 70 | 74 | 27.36 | cps |
| Silicon | 28-1 | 85434839 | 83845920 | 81617587 | 83632782 | 2.29 | cps |
| Silver | 107-1 | 3667 | 3884 | 3911 | 3821 | 3.49 | cps |
| Silver | 109-1 | 3280 | 3480 | 3500 | 3420 | 3.56 | cps |
| Sodium | 23-2 | 157846 | 156880 | 158601 | 157775 | 0.55 | cps |
| Strontium | 86-1 | 70175 | 70838 | 69542 | 70185 | 0.92 | cps |
| Strontium | 88-1 | 605232 | 606538 | 607417 | 606396 | 0.18 | cps |
| Sulfur | 34-1 | 849487 | 838917 | 840399 | 842935 | 0.68 | cps |
| Terbium | 159-1 | 17231754 | 16996649 | 16991373 | 17073259 | 0.80 | cps |
| Terbium | 159-2 | 4816708 | 4987953 | 4992752 | 4932471 | 2.03 | cps |
| Thallium | 203-1 | 3617 | 4204 | 4714 | 4178 | 13.14 | cps |
| Thallium | 205-1 | 8470 | 9814 | 10815 | 9699 | 12.13 | cps |
| Tin | 118-1 | 6552 | 6565 | 6368 | 6495 | 1.69 | cps |
| Titanium | 47-1 | 26615 | 44030 | 27573 | 32740 | 29.90 | cps |
| Uranium | 238-1 | 31128 | 31776 | 31205 | 31370 | 1.13 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1159-06 | Instrumnet Name : | P8 |
| Client Sample ID : | YE8E2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:45:05 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13640 | 14454 | 13823 | 13972 | 3.06 | cps |
| Ytterbium | 172-1 | 5978 | 6091 | 5861 | 5977 | 1.93 | cps |
| Ytterbium | 172-2 | 2024 | 2117 | 2244 | 2128 | 5.19 | cps |
| Ytterbium | 176-1 | 5144 | 5218 | 5058 | 5140 | 1.56 | cps |
| Ytterbium | 176-2 | 1643 | 1677 | 1647 | 1656 | 1.11 | cps |
| Yttrium | 89-1 | 23507078 | 23519562 | 23677502 | 23568047 | 0.40 | cps |
| Yttrium | 89-2 | 1400925 | 1448380 | 1448282 | 1432529 | 1.91 | cps |
| Zinc | 66-2 | 66401 | 65504 | 65212 | 65706 | 0.94 | cps |
| Zirconium | 90-1 | 27076 | 28103 | 29456 | 28212 | 4.23 | cps |
| Zirconium | 91-1 | 6612 | 6218 | 6592 | 6474 | 3.43 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4104 | 4097 | 4441 | 4214 | 4.66 | cps |
| Antimony | 121-1 | 523 | 503 | 617 | 548 | 11.04 | cps |
| Arsenic | 75-2 | 367 | 303 | 427 | 366 | 16.87 | cps |
| Barium | 135-1 | 261851 | 263426 | 267807 | 264362 | 1.17 | cps |
| Barium | 137-1 | 454867 | 462380 | 461149 | 459465 | 0.88 | cps |
| Beryllium | 9-1 | 945 | 895 | 930 | 923 | 2.78 | cps |
| Bismuth | 209-1 | 10047298 | 10138083 | 10178188 | 10121190 | 0.66 | cps |
| Bismuth | 209-2 | 3909399 | 3795999 | 3769152 | 3824850 | 1.95 | cps |
| Bromine | 81-1 | 309978 | 365929 | 393719 | 356542 | 11.96 | cps |
| Cadmium | 108-1 | 37 | 80 | 70 | 62 | 36.46 | cps |
| Cadmium | 106-1 | 6071 | 5711 | 5951 | 5911 | 3.10 | cps |
| Cadmium | 111-1 | 4301 | 3992 | 4200 | 4164 | 3.79 | cps |
| Calcium | 43-1 | 611871 | 623628 | 623157 | 619552 | 1.07 | cps |
| Calcium | 44-1 | 9931075 | 10077503 | 10045529 | 10018036 | 0.77 | cps |
| Carbon | 12-1 | 9173153 | 10410224 | 10899297 | 10160891 | 8.76 | cps |
| Carbon | 12-2 | 71975 | 74280 | 74048 | 73434 | 1.73 | cps |
| Chlorine | 35-1 | 13373907 | 12233772 | 11355035 | 12320905 | 8.22 | cps |
| Chlorine | 35-2 | 37321 | 35687 | 34364 | 35791 | 4.14 | cps |
| Chromium | 52-2 | 2967 | 2954 | 2930 | 2950 | 0.63 | cps |
| Cobalt | 59-2 | 5128 | 5121 | 5261 | 5170 | 1.53 | cps |
| Copper | 63-2 | 4441 | 4324 | 4461 | 4409 | 1.67 | cps |
| Dysprosium | 156-1 | 7102 | 7422 | 7419 | 7314 | 2.51 | cps |
| Dysprosium | 156-2 | 2414 | 2457 | 2390 | 2420 | 1.40 | cps |
| Erbium | 164-1 | 7359 | 7592 | 7322 | 7424 | 1.97 | cps |
| Erbium | 164-2 | 2304 | 2377 | 2324 | 2335 | 1.62 | cps |
| Gadolinium | 160-1 | 7419 | 7352 | 7139 | 7303 | 2.00 | cps |
| Gadolinium | 160-2 | 3010 | 2957 | 2867 | 2945 | 2.46 | cps |
| Holmium | 165-1 | 15980166 | 15925728 | 15952157 | 15952684 | 0.17 | cps |
| Holmium | 165-2 | 5241910 | 5162168 | 5095245 | 5166441 | 1.42 | cps |
| Indium | 115-1 | 12119367 | 12371823 | 12250313 | 12247168 | 1.03 | cps |
| Indium | 115-2 | 1079634 | 1061909 | 1065647 | 1069063 | 0.87 | cps |
| Iron | 54-2 | 525487 | 525821 | 522409 | 524572 | 0.36 | cps |
| Iron | 56-2 | 9603010 | 9713213 | 9860698 | 9725640 | 1.33 | cps |
| Iron | 57-2 | 241293 | 244337 | 245497 | 243709 | 0.89 | cps |
| Krypton | 83-1 | 213 | 250 | 240 | 234 | 8.08 | cps |
| Lead | 206-1 | 4894 | 4494 | 4461 | 4616 | 5.23 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4141 | 3624 | 3674 | 3813 | 7.48 | cps |
| Lead | 208-1 | 19389 | 17281 | 17181 | 17951 | 6.95 | cps |
| Lithium | 6-1 | 7177508 | 7280496 | 7185364 | 7214456 | 0.79 | cps |
| Magnesium | 24-2 | 1329786 | 1338803 | 1314644 | 1327745 | 0.92 | cps |
| Manganese | 55-2 | 1054930 | 1066268 | 1068901 | 1063366 | 0.70 | cps |
| Molybdenum | 94-1 | 2804 | 2814 | 2957 | 2858 | 3.00 | cps |
| Molybdenum | 95-1 | 1690 | 1867 | 1663 | 1740 | 6.35 | cps |
| Molybdenum | 96-1 | 2190 | 2297 | 2200 | 2229 | 2.64 | cps |
| Molybdenum | 97-1 | 1087 | 1130 | 1110 | 1109 | 1.96 | cps |
| Molybdenum | 98-1 | 2740 | 2810 | 2630 | 2727 | 3.33 | cps |
| Neodymium | 150-1 | 9056 | 9167 | 9300 | 9174 | 1.33 | cps |
| Neodymium | 150-2 | 1977 | 1940 | 2094 | 2004 | 4.00 | cps |
| Nickel | 60-2 | 18375 | 18686 | 18762 | 18608 | 1.10 | cps |
| Phosphorus | 31-2 | 370 | 313 | 323 | 336 | 9.01 | cps |
| Potassium | 39-2 | 189906 | 191185 | 191683 | 190925 | 0.48 | cps |
| Rhodium | 103-1 | 11787103 | 11630656 | 11409925 | 11609228 | 1.63 | cps |
| Rhodium | 103-2 | 4314757 | 4267394 | 4240720 | 4274290 | 0.88 | cps |
| Scandium | 45-1 | 8856099 | 8840534 | 8817237 | 8837957 | 0.22 | cps |
| Scandium | 45-2 | 157587 | 155733 | 153819 | 155713 | 1.21 | cps |
| Selenium | 82-1 | 2657 | 2594 | 2570 | 2607 | 1.72 | cps |
| Selenium | 77-2 | 47 | 43 | 47 | 46 | 4.23 | cps |
| Selenium | 78-2 | 133 | 137 | 163 | 144 | 11.38 | cps |
| Silicon | 28-1 | 178147131 | 179100604 | 180857157 | 179368297 | 0.77 | cps |
| Silver | 107-1 | 273 | 313 | 267 | 284 | 8.87 | cps |
| Silver | 109-1 | 167 | 163 | 203 | 178 | 12.48 | cps |
| Sodium | 23-2 | 35168585 | 36020479 | 35693713 | 35627593 | 1.21 | cps |
| Strontium | 86-1 | 549085 | 559115 | 553264 | 553821 | 0.91 | cps |
| Strontium | 88-1 | 4825297 | 4929094 | 4885673 | 4880021 | 1.07 | cps |
| Sulfur | 34-1 | 1301107 | 1301547 | 1284084 | 1295579 | 0.77 | cps |
| Terbium | 159-1 | 16236590 | 16275974 | 16170316 | 16227627 | 0.33 | cps |
| Terbium | 159-2 | 5146697 | 4892184 | 4953481 | 4997454 | 2.66 | cps |
| Thallium | 203-1 | 1093 | 987 | 763 | 948 | 17.77 | cps |
| Thallium | 205-1 | 2297 | 2217 | 2194 | 2236 | 2.42 | cps |
| Tin | 118-1 | 3000 | 3277 | 3224 | 3167 | 4.64 | cps |
| Titanium | 47-1 | 6141 | 5961 | 5975 | 6026 | 1.67 | cps |
| Uranium | 238-1 | 1463 | 1500 | 1557 | 1507 | 3.12 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | Q1255-07A | Instrumnet Name : | P8 |
| Client Sample ID : | MDCZP2A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 15:48:23 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4961 | 5078 | 4898 | 4979 | 1.83 | cps |
| Ytterbium | 172-1 | 8970 | 9403 | 8966 | 9113 | 2.76 | cps |
| Ytterbium | 172-2 | 3707 | 3611 | 3430 | 3583 | 3.92 | cps |
| Ytterbium | 176-1 | 7075 | 7192 | 7372 | 7213 | 2.07 | cps |
| Ytterbium | 176-2 | 2657 | 2384 | 2624 | 2555 | 5.84 | cps |
| Yttrium | 89-1 | 21963921 | 22045991 | 21663286 | 21891066 | 0.92 | cps |
| Yttrium | 89-2 | 1410605 | 1367147 | 1356706 | 1378153 | 2.07 | cps |
| Zinc | 66-2 | 863 | 900 | 970 | 911 | 5.95 | cps |
| Zirconium | 90-1 | 5565 | 5231 | 5178 | 5325 | 3.94 | cps |
| Zirconium | 91-1 | 1103 | 1053 | 1040 | 1066 | 3.13 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2746689 | 2732633 | 2753132 | 2744151 | 0.38 | cps |
| Antimony | 121-1 | 6577990 | 6679138 | 6579536 | 6612221 | 0.88 | cps |
| Arsenic | 75-2 | 129081 | 127847 | 129051 | 128660 | 0.55 | cps |
| Barium | 135-1 | 7941144 | 7829531 | 7948369 | 7906348 | 0.84 | cps |
| Barium | 137-1 | 13514224 | 13396245 | 13585950 | 13498806 | 0.71 | cps |
| Beryllium | 9-1 | 2348049 | 2378693 | 2368494 | 2365078 | 0.66 | cps |
| Bismuth | 209-1 | 9482107 | 9474289 | 9557217 | 9504537 | 0.48 | cps |
| Bismuth | 209-2 | 3564193 | 3632730 | 3556368 | 3584430 | 1.17 | cps |
| Bromine | 81-1 | 4187 | 4217 | 4271 | 4225 | 1.00 | cps |
| Cadmium | 108-1 | 140773 | 145640 | 144327 | 143580 | 1.75 | cps |
| Cadmium | 106-1 | 205216 | 206631 | 207544 | 206464 | 0.57 | cps |
| Cadmium | 111-1 | 1796493 | 1779073 | 1795651 | 1790406 | 0.55 | cps |
| Calcium | 43-1 | 10980444 | 10781018 | 11030786 | 10930749 | 1.21 | cps |
| Calcium | 44-1 | 175232731 | 172435807 | 178380611 | 175349716 | 1.70 | cps |
| Carbon | 12-1 | 3869151 | 3917328 | 4015788 | 3934089 | 1.90 | cps |
| Carbon | 12-2 | 30482 | 30639 | 30578 | 30566 | 0.26 | cps |
| Chlorine | 35-1 | 505206 | 503656 | 501732 | 503531 | 0.35 | cps |
| Chlorine | 35-2 | 1947 | 2007 | 1857 | 1937 | 3.90 | cps |
| Chromium | 52-2 | 1470887 | 1425057 | 1445696 | 1447213 | 1.59 | cps |
| Cobalt | 59-2 | 2694327 | 2667171 | 2650884 | 2670794 | 0.82 | cps |
| Copper | 63-2 | 20025520 | 19775555 | 19723915 | 19841663 | 0.81 | cps |
| Dysprosium | 156-1 | 580 | 617 | 557 | 584 | 5.18 | cps |
| Dysprosium | 156-2 | 60 | 93 | 67 | 73 | 24.05 | cps |
| Erbium | 164-1 | 347 | 397 | 387 | 377 | 7.03 | cps |
| Erbium | 164-2 | 90 | 113 | 110 | 104 | 12.08 | cps |
| Gadolinium | 160-1 | 287 | 327 | 310 | 308 | 6.53 | cps |
| Gadolinium | 160-2 | 143 | 100 | 97 | 113 | 22.97 | cps |
| Holmium | 165-1 | 15540444 | 15183463 | 15864239 | 15529382 | 2.19 | cps |
| Holmium | 165-2 | 5170942 | 5076958 | 5135606 | 5127836 | 0.93 | cps |
| Indium | 115-1 | 11624126 | 11671980 | 11788982 | 11695029 | 0.73 | cps |
| Indium | 115-2 | 1042812 | 1051089 | 1060474 | 1051459 | 0.84 | cps |
| Iron | 54-2 | 13927437 | 13680025 | 13881812 | 13829758 | 0.95 | cps |
| Iron | 56-2 | 256742130 | 253474730 | 252440663 | 254219174 | 0.88 | cps |
| Iron | 57-2 | 6386772 | 6423978 | 6460460 | 6423737 | 0.57 | cps |
| Krypton | 83-1 | 297 | 293 | 263 | 284 | 6.45 | cps |
| Lead | 206-1 | 25606227 | 25861440 | 25972002 | 25813223 | 0.73 | cps |

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 21895887 | 22544522 | 22218805 | 22219738 | 1.46 | cps |
| Lead | 208-1 | 101443333 | 103495650 | 102447708 | 102462230 | 1.00 | cps |
| Lithium | 6-1 | 6944549 | 6792607 | 7025586 | 6920914 | 1.71 | cps |
| Magnesium | 24-2 | 48234384 | 48701936 | 48664514 | 48533611 | 0.54 | cps |
| Manganese | 55-2 | 5671644 | 5584688 | 5656935 | 5637756 | 0.83 | cps |
| Molybdenum | 94-1 | 22837760 | 23576815 | 23012001 | 23142192 | 1.67 | cps |
| Molybdenum | 95-1 | 33721245 | 34326641 | 33136954 | 33728280 | 1.76 | cps |
| Molybdenum | 96-1 | 37239687 | 37455557 | 36827084 | 37174109 | 0.86 | cps |
| Molybdenum | 97-1 | 21058773 | 21137465 | 20991294 | 21062511 | 0.35 | cps |
| Molybdenum | 98-1 | 54316649 | 54470968 | 55316204 | 54701274 | 0.98 | cps |
| Neodymium | 150-1 | 527 | 707 | 720 | 651 | 16.58 | cps |
| Neodymium | 150-2 | 50 | 43 | 27 | 40 | 30.04 | cps |
| Nickel | 60-2 | 695922 | 692802 | 697349 | 695358 | 0.33 | cps |
| Phosphorus | 31-2 | 26287 | 26531 | 26728 | 26515 | 0.83 | cps |
| Potassium | 39-2 | 13190391 | 13200664 | 13189425 | 13193493 | 0.05 | cps |
| Rhodium | 103-1 | 10726737 | 10743594 | 11025465 | 10831932 | 1.55 | cps |
| Rhodium | 103-2 | 4083054 | 4047226 | 4072255 | 4067512 | 0.45 | cps |
| Scandium | 45-1 | 8851159 | 8787848 | 8772985 | 8803998 | 0.47 | cps |
| Scandium | 45-2 | 163567 | 165204 | 166158 | 164976 | 0.79 | cps |
| Selenium | 82-1 | 99572 | 99844 | 100132 | 99849 | 0.28 | cps |
| Selenium | 77-2 | 1523 | 1593 | 1477 | 1531 | 3.84 | cps |
| Selenium | 78-2 | 5398 | 5224 | 5444 | 5356 | 2.17 | cps |
| Silicon | 28-1 | 6077546 | 6113948 | 6032729 | 6074741 | 0.67 | cps |
| Silver | 107-1 | 7922381 | 8071127 | 8044204 | 8012571 | 0.99 | cps |
| Silver | 109-1 | 7460757 | 7595539 | 7392875 | 7483057 | 1.38 | cps |
| Sodium | 23-2 | 98516302 | 98470225 | 98534159 | 98506895 | 0.03 | cps |
| Strontium | 86-1 | 2221331 | 2200156 | 2226463 | 2215983 | 0.63 | cps |
| Strontium | 88-1 | 19093578 | 18760493 | 18861302 | 18905124 | 0.90 | cps |
| Sulfur | 34-1 | 1332414 | 1337482 | 1338966 | 1336287 | 0.26 | cps |
| Terbium | 159-1 | 15972836 | 16048865 | 16165203 | 16062301 | 0.60 | cps |
| Terbium | 159-2 | 4899666 | 4884848 | 4958390 | 4914301 | 0.79 | cps |
| Thallium | 203-1 | 6393122 | 6303465 | 6324320 | 6340302 | 0.74 | cps |
| Thallium | 205-1 | 15311800 | 15102398 | 15149282 | 15187827 | 0.72 | cps |
| Tin | 118-1 | 5217920 | 5200119 | 5317410 | 5245150 | 1.21 | cps |
| Titanium | 47-1 | 10521884 | 10498585 | 10525346 | 10515272 | 0.14 | cps |
| Uranium | 238-1 | 21793684 | 21692233 | 21816536 | 21767484 | 0.30 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCV026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:22:04 | DataFile Name : | 037CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1119406 | 1123375 | 1113276 | 1118686 | 0.45 | cps |
| Ytterbium | 172-1 | 437 | 367 | 390 | 398 | 8.96 | cps |
| Ytterbium | 172-2 | 137 | 167 | 153 | 152 | 9.87 | cps |
| Ytterbium | 176-1 | 32570 | 32286 | 32627 | 32494 | 0.56 | cps |
| Ytterbium | 176-2 | 10404 | 10301 | 10274 | 10326 | 0.67 | cps |
| Yttrium | 89-1 | 21779286 | 21638253 | 21656839 | 21691460 | 0.35 | cps |
| Yttrium | 89-2 | 1402097 | 1438283 | 1401557 | 1413979 | 1.49 | cps |
| Zinc | 66-2 | 2111682 | 2082469 | 2139055 | 2111069 | 1.34 | cps |
| Zirconium | 90-1 | 11764996 | 11847381 | 11786449 | 11799609 | 0.36 | cps |
| Zirconium | 91-1 | 2638148 | 2666892 | 2620617 | 2641886 | 0.88 | cps |

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On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 50 | 63 | 77 | 63 | 21.06 | cps |
| Antimony | 121-1 | 423 | 520 | 460 | 468 | 10.43 | cps |
| Arsenic | 75-2 | 13 | 3 | 10 | 9 | 57.30 | cps |
| Barium | 135-1 | 543 | 493 | 520 | 519 | 4.82 | cps |
| Barium | 137-1 | 803 | 860 | 867 | 843 | 4.13 | cps |
| Beryllium | 9-1 | 916 | 952 | 959 | 942 | 2.43 | cps |
| Bismuth | 209-1 | 10560950 | 10678707 | 10592202 | 10610619 | 0.57 | cps |
| Bismuth | 209-2 | 4016254 | 4244630 | 4147966 | 4136284 | 2.77 | cps |
| Bromine | 81-1 | 3711 | 3641 | 3851 | 3734 | 2.86 | cps |
| Cadmium | 108-1 | 77 | 100 | 80 | 86 | 14.75 | cps |
| Cadmium | 106-1 | 6071 | 5851 | 6265 | 6063 | 3.41 | cps |
| Cadmium | 111-1 | 4296 | 4113 | 4409 | 4273 | 3.51 | cps |
| Calcium | 43-1 | 407 | 507 | 447 | 453 | 11.10 | cps |
| Calcium | 44-1 | 21503 | 21653 | 21423 | 21526 | 0.54 | cps |
| Carbon | 12-1 | 2714467 | 2664382 | 2646955 | 2675268 | 1.31 | cps |
| Carbon | 12-2 | 16499 | 17330 | 16179 | 16670 | 3.56 | cps |
| Chlorine | 35-1 | 361751 | 363235 | 356777 | 360587 | 0.94 | cps |
| Chlorine | 35-2 | 1247 | 1243 | 1293 | 1261 | 2.22 | cps |
| Chromium | 52-2 | 2053 | 2167 | 2110 | 2110 | 2.69 | cps |
| Cobalt | 59-2 | 273 | 333 | 320 | 309 | 10.20 | cps |
| Copper | 63-2 | 2237 | 2300 | 2370 | 2302 | 2.90 | cps |
| Dysprosium | 156-1 | 173 | 153 | 117 | 148 | 19.45 | cps |
| Dysprosium | 156-2 | 13 | 0 | 17 | 10 | 88.20 | cps |
| Erbium | 164-1 | 90 | 100 | 80 | 90 | 11.11 | cps |
| Erbium | 164-2 | 20 | 13 | 30 | 21 | 39.75 | cps |
| Gadolinium | 160-1 | 60 | 77 | 67 | 68 | 12.38 | cps |
| Gadolinium | 160-2 | 17 | 17 | 23 | 19 | 20.36 | cps |
| Holmium | 165-1 | 16178409 | 16231211 | 15990634 | 16133418 | 0.78 | cps |
| Holmium | 165-2 | 5205650 | 5535812 | 5340161 | 5360541 | 3.10 | cps |
| Indium | 115-1 | 12799783 | 12722224 | 12961015 | 12827674 | 0.95 | cps |
| Indium | 115-2 | 1118283 | 1187331 | 1161747 | 1155787 | 3.02 | cps |
| Iron | 54-2 | 880 | 873 | 820 | 858 | 3.83 | cps |
| Iron | 56-2 | 12779 | 12349 | 12762 | 12630 | 1.93 | cps |
| Iron | 57-2 | 250 | 357 | 383 | 330 | 21.38 | cps |
| Krypton | 83-1 | 267 | 303 | 267 | 279 | 7.59 | cps |
| Lead | 206-1 | 2210 | 2260 | 2110 | 2194 | 3.48 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1987 | 1970 | 1970 | 1976 | 0.49 | cps |
| Lead | 208-1 | 9128 | 9041 | 8735 | 8968 | 2.31 | cps |
| Lithium | 6-1 | 7530753 | 7294289 | 7524482 | 7449841 | 1.81 | cps |
| Magnesium | 24-2 | 2414 | 2440 | 2530 | 2461 | 2.48 | cps |
| Manganese | 55-2 | 517 | 513 | 470 | 500 | 5.21 | cps |
| Molybdenum | 94-1 | 697 | 610 | 707 | 671 | 7.92 | cps |
| Molybdenum | 95-1 | 733 | 677 | 713 | 708 | 4.06 | cps |
| Molybdenum | 96-1 | 857 | 783 | 837 | 826 | 4.59 | cps |
| Molybdenum | 97-1 | 373 | 483 | 443 | 433 | 12.85 | cps |
| Molybdenum | 98-1 | 1120 | 1013 | 1170 | 1101 | 7.27 | cps |
| Neodymium | 150-1 | 37 | 23 | 20 | 27 | 33.08 | cps |
| Neodymium | 150-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Nickel | 60-2 | 1090 | 930 | 970 | 997 | 8.35 | cps |
| Phosphorus | 31-2 | 73 | 97 | 87 | 86 | 13.69 | cps |
| Potassium | 39-2 | 11141 | 10841 | 11244 | 11075 | 1.89 | cps |
| Rhodium | 103-1 | 12280425 | 12198309 | 12225246 | 12234660 | 0.34 | cps |
| Rhodium | 103-2 | 4510910 | 4834117 | 4736487 | 4693838 | 3.53 | cps |
| Scandium | 45-1 | 9119867 | 9190897 | 9063855 | 9124873 | 0.70 | cps |
| Scandium | 45-2 | 162693 | 173692 | 171096 | 169160 | 3.40 | cps |
| Selenium | 82-1 | -13 | 37 | 47 | 23 | 137.75 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 10 | 3 | 10 | 8 | 49.52 | cps |
| Silicon | 28-1 | 508258 | 510035 | 503919 | 507404 | 0.62 | cps |
| Silver | 107-1 | 293 | 263 | 300 | 286 | 6.84 | cps |
| Silver | 109-1 | 223 | 157 | 140 | 173 | 25.44 | cps |
| Sodium | 23-2 | 75685 | 75876 | 76415 | 75992 | 0.50 | cps |
| Strontium | 86-1 | 657 | 717 | 687 | 687 | 4.37 | cps |
| Strontium | 88-1 | 1730 | 1733 | 1930 | 1798 | 6.37 | cps |
| Sulfur | 34-1 | 741039 | 740561 | 740368 | 740656 | 0.05 | cps |
| Terbium | 159-1 | 16640527 | 16315557 | 16682051 | 16546045 | 1.21 | cps |
| Terbium | 159-2 | 5064633 | 5302832 | 5243086 | 5203517 | 2.38 | cps |
| Thallium | 203-1 | 697 | 810 | 737 | 748 | 7.69 | cps |
| Thallium | 205-1 | 1833 | 1737 | 1813 | 1795 | 2.84 | cps |
| Tin | 118-1 | 1323 | 1320 | 1220 | 1288 | 4.56 | cps |
| Titanium | 47-1 | 327 | 310 | 333 | 323 | 3.72 | cps |
| Uranium | 238-1 | 77 | 103 | 103 | 94 | 16.30 | cps |

Reviewed By:kareem
On:2/12/2025 6:07:41 PM
Inst Id :P8

| | | | |
|---|---|---|---|
| LB Number : | lb134694 | Operator : | Jaswal |
| Lab Sample ID : | CCB026 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB026 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-02-12 16:33:05 | DataFile Name : | 039CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 13 | 13 | 7 | 11 | 34.61 | cps |
| Ytterbium | 172-1 | 97 | 90 | 83 | 90 | 7.41 | cps |
| Ytterbium | 172-2 | 37 | 33 | 47 | 39 | 17.85 | cps |
| Ytterbium | 176-1 | 1393 | 1363 | 1407 | 1388 | 1.60 | cps |
| Ytterbium | 176-2 | 240 | 247 | 303 | 263 | 13.22 | cps |
| Yttrium | 89-1 | 22436493 | 22056304 | 22414339 | 22302379 | 0.96 | cps |
| Yttrium | 89-2 | 1444904 | 1529092 | 1490797 | 1488265 | 2.83 | cps |
| Zinc | 66-2 | 227 | 207 | 197 | 210 | 7.27 | cps |
| Zirconium | 90-1 | 843 | 747 | 800 | 797 | 6.08 | cps |
| Zirconium | 91-1 | 193 | 137 | 127 | 152 | 23.62 | cps |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1159

**Test :** Metals CLP MS FULL

**Prepbatch ID :** PB166302,

**Sequence ID/Qc Batch ID:** LB134612,LB134674,LB134694,

**Standard ID :**
MP82128,MP84041,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP84051,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84118,MP84119,MP84378,MP84414,MP84415,MP84416,MP84417,MP84418,MP84419,MP84420,MP84421,MP84422,MP84423,MP84438,MP84440,MP84441,MP84442,MP84443,MP84444,MP84473,

**Chemical ID :**
M4884,M4888,M5192,M5288,M5289,M5295,M5298,M5304,M5472,M5476,M5496,M5497,M5498,M5513,M5519,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M5802,M5806,M5811,M5815,M5816,M5817,M5819,M5820,M5873,M5874,M5960,M5961,M5962,M5976,M5977,M5978,M5981,M5983,M5994,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M6040,M6055,M6079,M6121,M6126,M6127,M6128,M6144,M6145,M6146,M6150,W3112,

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 641 | 1:4 HCL | MP82128 | 09/03/2024 | 02/08/2025 | Janvi Patel | None | None | Sarabjit Jaswal 09/03/2024 |

**FROM** 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 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 |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP84042 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3947 | S7(SFAM,6020,200.8) | MP84043 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3948 | S6(SFAM,6020,200.8) | MP84044 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3949 | S5(SFAM,6020,200.8) | MP84045 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3954 | S4(SFAM,6020,200.8) | MP84046 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3951 | S3(SFAM, 6020,200.8) | MP84047 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3955 | S2CONC(SFAM,6020,200.8) | MP84048 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3956 | S2(SFAM,6020,200.8) | MP84049 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3957 | S1(SFAM,6020,200.8) | MP84050 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3958 | ICV(SFAM) | MP84051 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3961 | CCV | MP84052 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1142 | ICSA ICPMS | MP84053 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1143 | ICSAB ICPMS | MP84054 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3962 | MG 10PPM FOR TUNE | MP84055 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3894 | TUNE 200PPB | MP84056 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3903 | ISS 3PPM | MP84057 | 01/14/2025 | 02/07/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2902 | S8 ICPMS | MP84073 | 01/14/2025 | 02/07/2025 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3964 | CONC.LCSS SPIKE | MP84118 | 01/21/2025 | 02/04/2025 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 01/22/2025 |

**FROM** 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 + 0.25000ml of M6128 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.00000ml of M5977 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M5978 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5519 + 12.50000ml of M5806 + 12.50000ml of M6127 + 155.70000ml of W3112 + 2.50000ml of M6032 + 2.50000ml of M6121 + 4.80000ml of M5476 + 5.00000ml of M5298 + 5.00000ml of M6126 + 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 |
|---|---|---|---|---|---|---|---|---|
| 870 | ICPMS SPIKE SOL.B | MP84119 | 01/21/2025 | 01/31/2025 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 01/22/2025 |

**FROM** 0.02500ml of M5977 + 0.05000ml of M5476 + 5.00000ml of M5994 + 5.00000ml of M5999 + 39.92500ml of MP84042 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1883 | SE 10PPM | MP84378 | 02/05/2025 | 02/07/2025 | Sarabjit Jaswal | None | None | Mohan Bera 02/07/2025 |

**FROM** 0.10000ml of M5962 + 9.90000ml of MP84042 = Final Quantity: 10.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP84414 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 10.00000ml of M6126 + 175.00000ml of W3112 + 5.00000ml of M6121 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2902 | S8 ICPMS | MP84415 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5811 + 5.00000ml of M5498 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84414 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3947 | S7(SFAM,6020,200.8) | MP84416 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.00000ml of M4884 + 0.00000ml of M4888 + 0.00000ml of M5192 + 0.00000ml of M5288 + 0.00000ml of M5513 + 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.90000ml of M5496 + 10.00000ml of M5977 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5519 + 4.90000ml of M5811 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M5498 + 9.90000ml of M6127 + 9.90000ml of M6144 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3948 | S6(SFAM,6020,200.8) | MP84417 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84416 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3949 | S5(SFAM,6020,200.8) | MP84418 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84416 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3954 | S4(SFAM,6020,200.8) | MP84419 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84416 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3951 | S3(SFAM, 6020,200.8) | MP84420 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84417 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3955 | S2CONC(SFAM,6020,200.8) | MP84421 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5960 + 0.05000ml of M5981 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M6121 + 2.50000ml of M6127 + 2.50000ml of M6144 + 225.25000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3956 | S2(SFAM,6020,200.8) | MP84422 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84421 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3957 | S1(SFAM,6020,200.8) | MP84423 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84422 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3961 | CCV | MP84438 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.00000ml of M4884 + 0.00000ml of M5978 + 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5519 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M5496 + 5.00000ml of M5977 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1142 | ICSA ICPMS | MP84440 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 10.00000ml of M5873 + 90.00000ml of MP84414 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1143 | ICSAB ICPMS | MP84441 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84414 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3962 | MG 10PPM FOR TUNE | MP84442 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 0.01000ml of M6127 + 9.99000ml of MP84414 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3894 | TUNE 200PPB | MP84443 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 2.00000ml of M6055 + 2.00000ml of MP84442 + 96.00000ml of MP84414 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3903 | ISS 3PPM | MP84444 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/11/2025 |

**FROM** 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84414 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3958 | ICV(SFAM) | MP84473 | 02/07/2025 | 02/28/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sohil Jodhani 02/13/2025 |

**FROM** 0.05000ml of M5472 + 0.50000ml of M5192 + 2.00000ml of M6150 + 97.45000ml of MP84414 = Final Quantity: 100.000 ml

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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. | 57014 / Si, 1000 PPM, 125 ml | 030921 | 03/09/2025 | 08/06/2021 / jaswal | 08/05/2021 / jaswal | M4884 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57022 / Ti, 1000 PPM, 125 ml | 070721 | 09/27/2025 | 08/06/2021 / jaswal | 08/05/2021 / jaswal | M4888 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57042 / Mo, 1000 PPM, 125 ml | 051722 | 05/17/2025 | 07/01/2022 / bin | 06/17/2022 / jaswal | M5192 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 |

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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. | 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 |

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

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

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

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / 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 |

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y | T2-MEB709511 | 09/03/2026 | 08/07/2024 / jaswal | 04/11/2022 / jaswal | M5739 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 071723 | 07/17/2026 | 10/01/2024 / Jaswal | 08/25/2023 / jaswal | M5751 |

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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. | 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 |

| 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 |

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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. | 58126 / Fe, 10000 PPM, 500 ml | 051523 | 05/15/2026 | 02/06/2025 / kareem | 01/03/2024 / jaswal | M5811 |

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

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

| 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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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART A / ICSA ( ICPMS ) STOCK SOLN | CP-MS ICSA-0803 | 04/30/2025 | 04/17/2024 / jaswal | 07/14/2022 / jaswal | M5873 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART B / ICSB (ICPMS) STOCK SOLUTION | CP-MS ICSB-0803 | 04/30/2025 | 04/17/2024 / jaswal | 07/14/2022 / jaswal | M5874 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027 | 07/03/2024 / kareem | 06/11/2024 / kareem | M5960 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027 | 07/02/2024 / Jaswal | 06/11/2024 / Jaswal | M5961 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57034 / Se, 1000 PPM, 125 ml | 060624 | 06/06/2027 | 07/02/2024 / Jaswal | 06/14/2024 / Jaswal | M5962 |

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

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL | T2-MO720876 | 07/17/2027 | 01/16/2025 / JANVI | 02/22/2024 / Jaswal | M5977 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5978 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57092 / U, 1000 PPM, 125 ml | 060724 | 06/07/2027 | 07/29/2024 / Jaswal | 06/11/2024 / Jaswal | M5981 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| 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 | M5994 |

| 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 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 11/09/2026 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 |

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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-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 24D1562005 | 02/08/2025 | 08/09/2024 /Janvi | 08/01/2024 / Janvi | M6040 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL | U2-MEB734294 | 06/21/2028 | 08/21/2024 / Jaswal | 08/19/2024 / Jaswal | M6055 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57040 / Zr, 1000 PPM, 125 ml | 071423 | 07/14/2026 | 01/15/2025 / Jaswal | 09/30/2024 / Jaswal | M6079 |

| 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 |

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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. | 58025 / Mn, 1000 PPM, 500 ml | 101124 | 10/11/2027 | 01/13/2025 / kareem | 01/13/2025 / kareem | M6128 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58111 / Na, 10000 PPM, 500 ml | 072424 | 07/24/2027 | 01/23/2025 / kareem | 01/13/2025 / Jaswal | M6144 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58030 / Zinc, Zn, 500 ml, 1000 PPM | 121724 | 12/17/2027 | 02/04/2025 /Jaswal | 01/13/2025 / Jaswal | M6145 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57051 / Sb, 1000 PPM, 125 ml | 071724 | 07/17/2027 | 01/31/2025 / kareem | 10/18/2024 / kareem | M6146 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-1 / ICV ( ICP/ICPMS ) STOCK SOLN | ICV1-1014 | 07/07/2025 | 02/07/2025 / JANVI | 04/20/2021 / JANVI | M6150 |

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

INORGANIC VENTURES™

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# Certificate of Analysis

R: 02/22/24 M5991, M5992, M5993, M5994, M5995

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-SPK-4 |
| Lot Number: | V2-MEB742036 |
| Matrix: | 3% (v/v) HNO3 |
| Value / Analyte(s): | 100 µg/mL ea: Antimony, |
| | 50 µg/mL ea: Cadmium, Thallium, |
| | 40 µg/mL ea: Arsenic, |
| | 20 µg/mL ea: Lead, |
| | 10 µg/mL ea: Selenium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Antimony, Sb | 100.0 ± 0.7 µg/mL | Arsenic, As | 40.00 ± 0.26 µg/mL |
| Cadmium, Cd | 50.00 ± 0.22 µg/mL | Lead, Pb | 20.00 ± 0.09 µg/mL |
| Selenium, Se | 10.00 ± 0.04 µg/mL | Thallium, Tl | 50.00 ± 0.22 µg/mL |

**Density:** 1.016 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

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

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 12, 2024

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

**11.2 Lot Expiration Date**

**- March 12, 2029**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Joseph Burns
Custom VS Manager

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

***Certified Reference Material CRM***

M6032

R: 8/5/24

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

1485

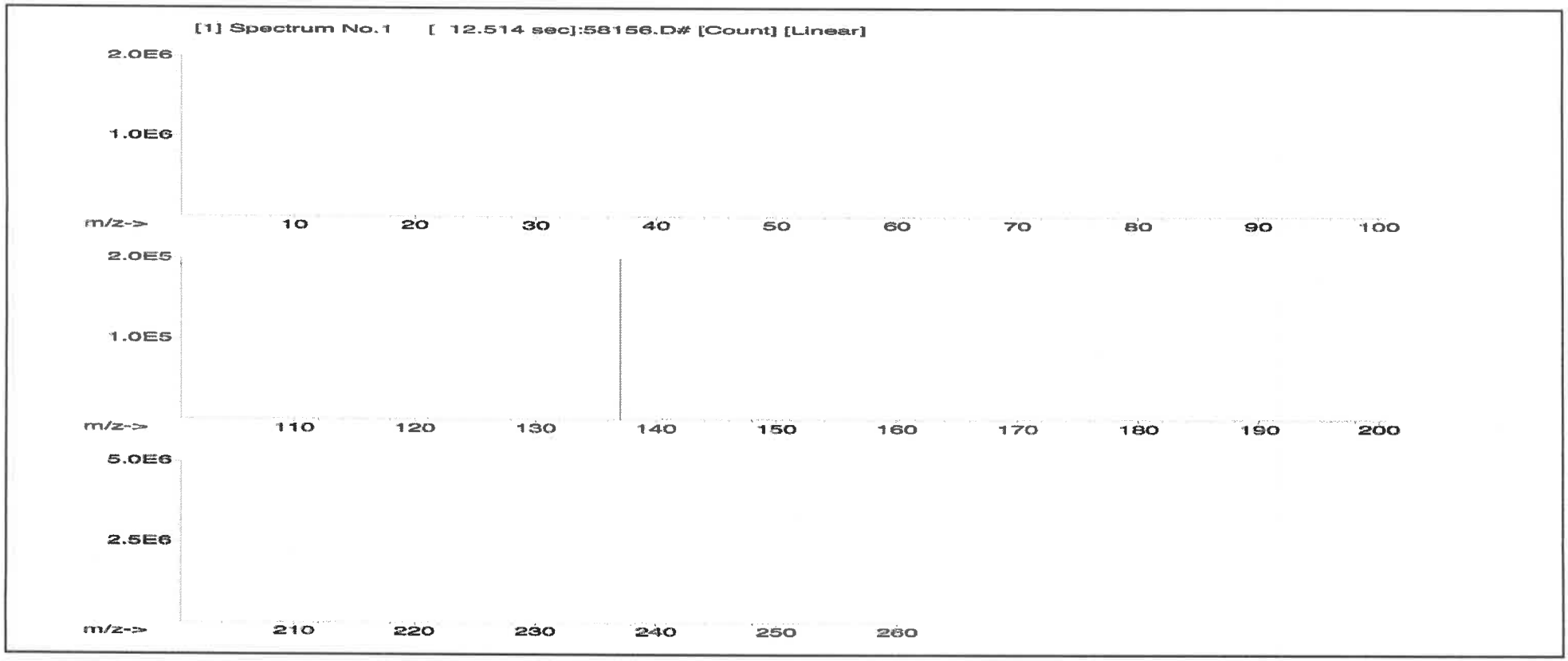
CERTIFIED WEIGHT REPORT:

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

Lot #

| | | |
|---|---|---|
| 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 |



1486

**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).

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

***Certified Reference Material CRM***

M6028

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

R 8/5/24

1487

## CERTIFIED WEIGHT REPORT:

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

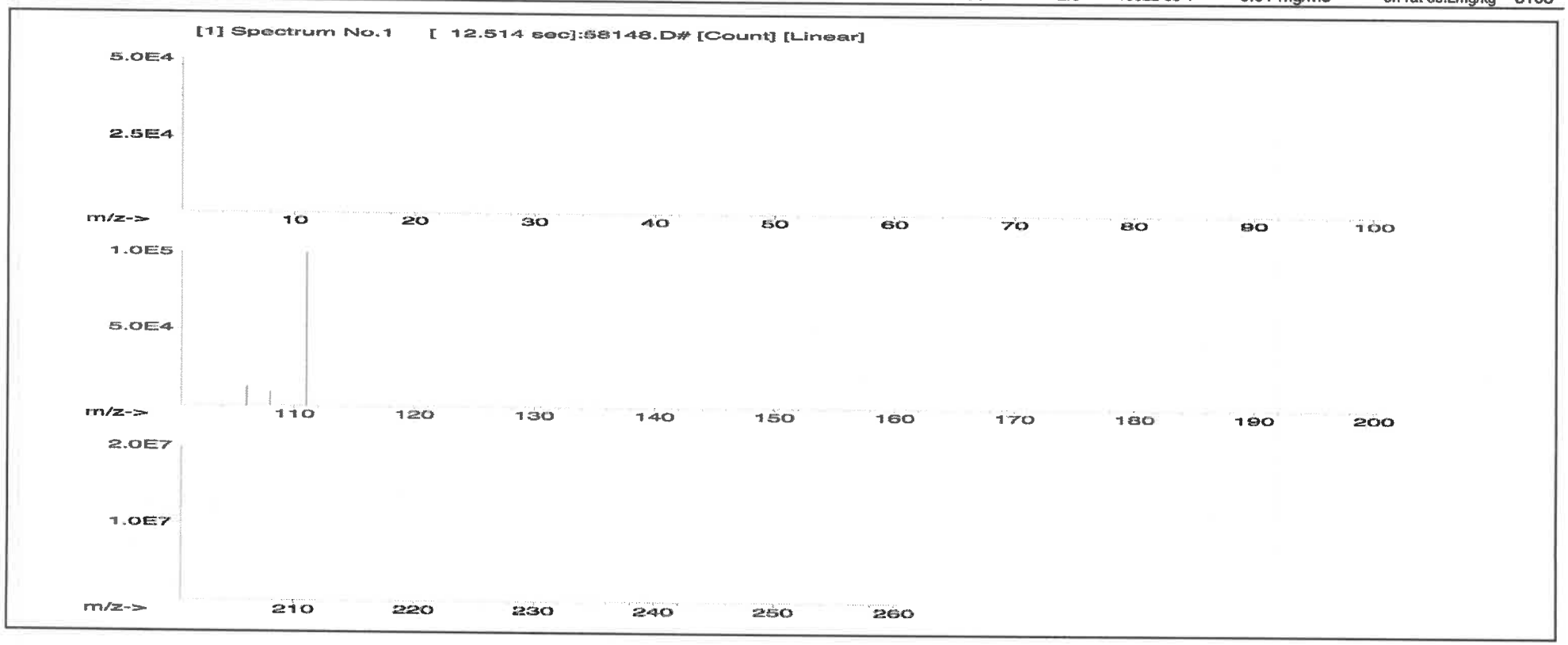
Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 070124 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 070124 |

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



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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

* 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 : 01/03/24. M5810, M5811

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1489

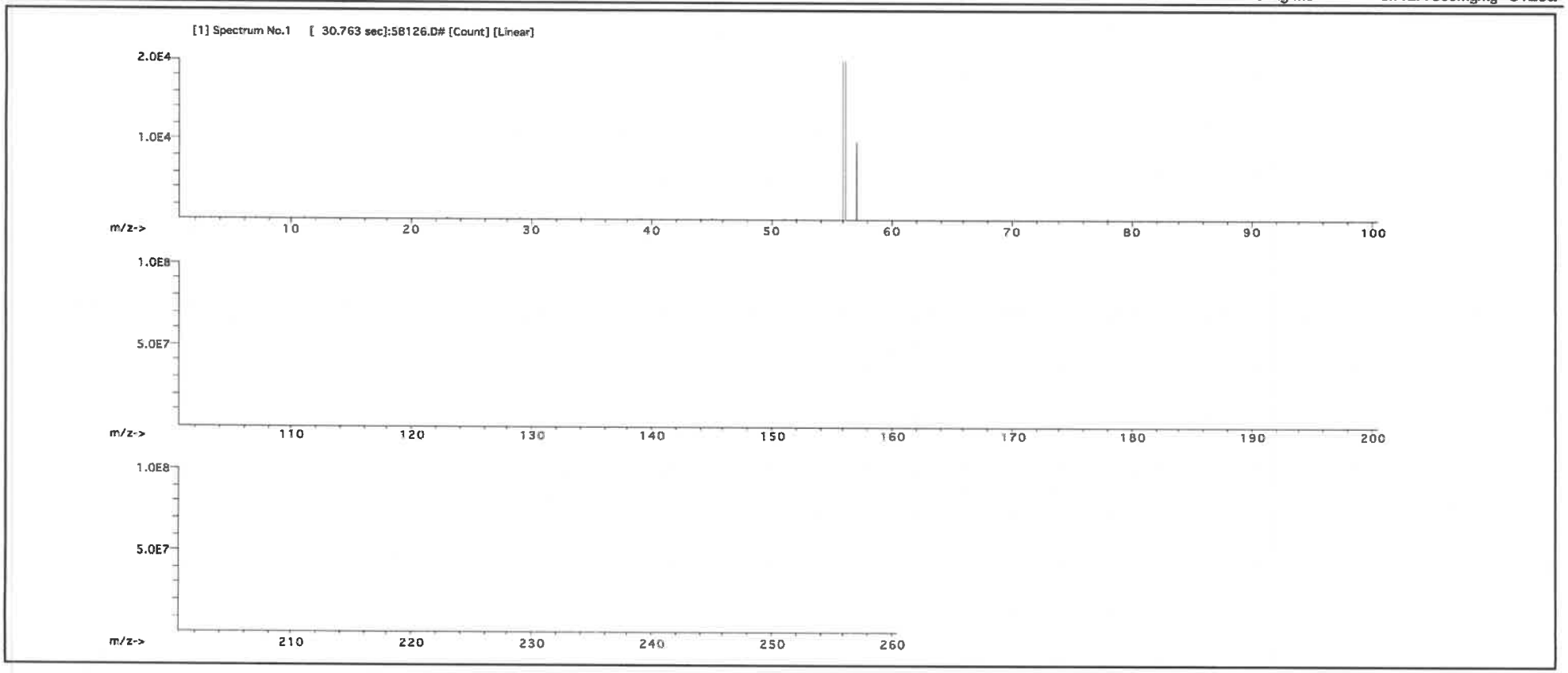
CERTIFIED WEIGHT REPORT:

| | | Lot # | | |
|---|---|---|---|---|
| **Part Number:** | **58126** | **Solvent:** | 21110221 | Nitric Acid |
| **Lot Number:** | **051523** | | | |
| **Description:** | **Iron (Fe)** | | 5.0% | 250.0 (mL) Nitric Acid |
| **Expiration Date:** | 051526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 5000.1 | 0.12 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 051523 |
| Reviewed By: | Pedro L. Rentas | 051523 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2302010-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



1490

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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.10 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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1491

CERTIFIED WEIGHT REPORT:

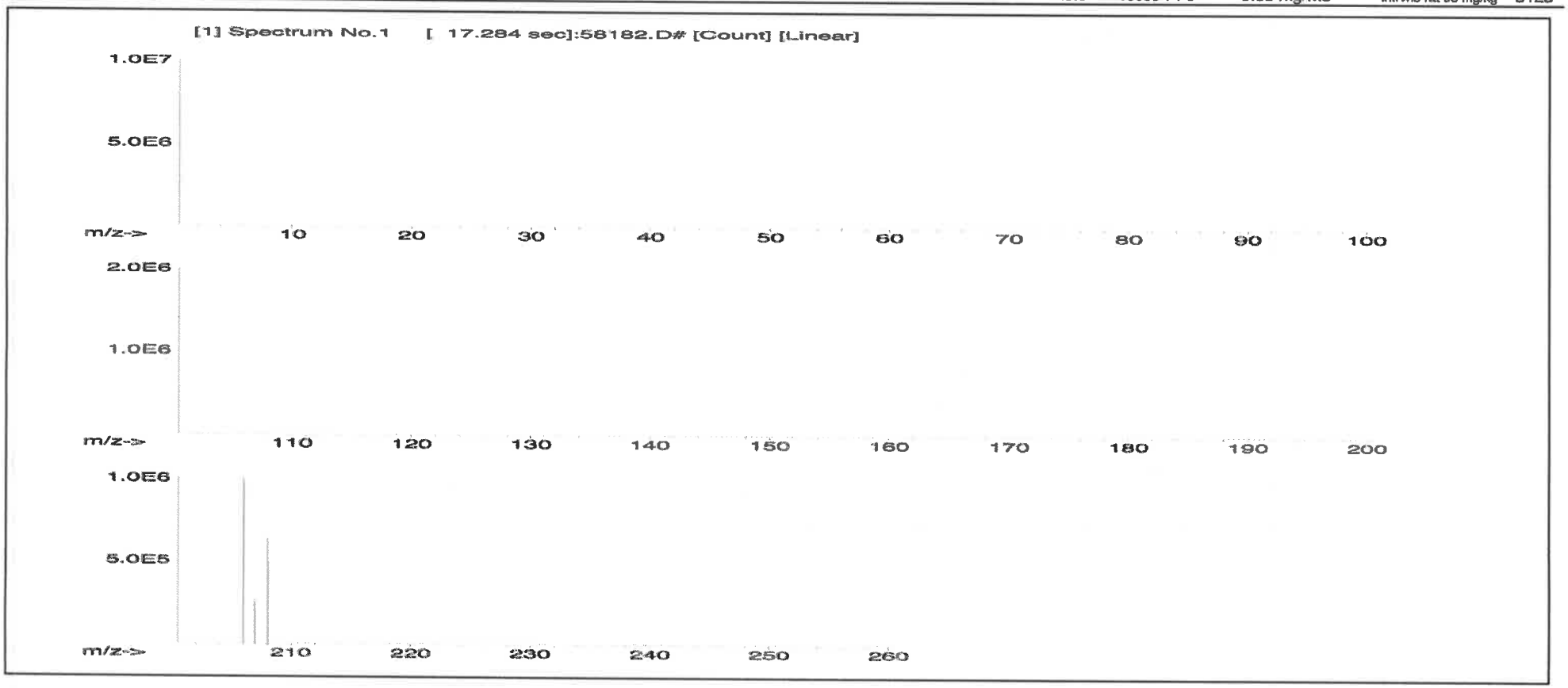
**Part Number:** 57182
**Lot Number:** 110923
**Description:** Lead (Pb)

**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 |



1492

**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).
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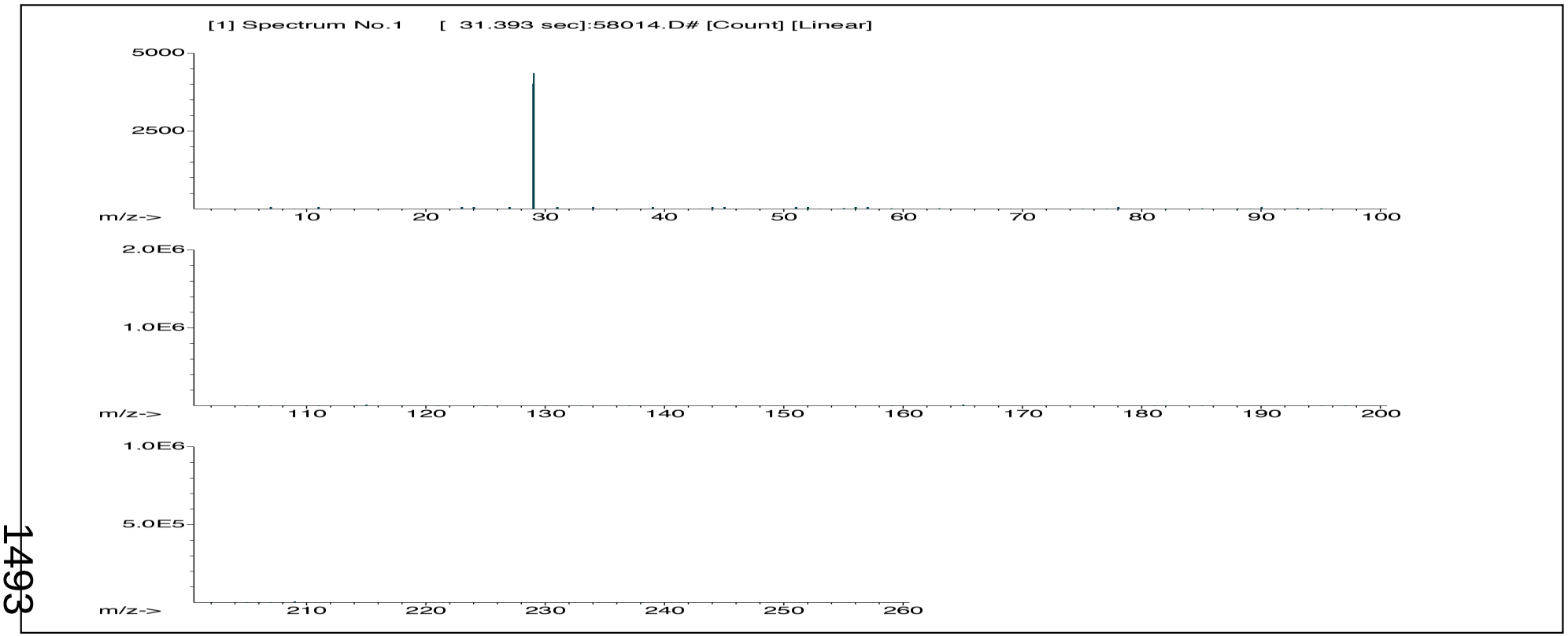
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57014** | 19410105 | Nitric Acid | |
| **Lot Number:** | **030921** | | | |
| **Description:** | **Silicon (Si)** | | | |
| | | 2.0% | 60.0 | Nitric Acid |
| **Expiration Date:** | 030924 | | (mL) | |
| **Recommended Storage:** | Ambient (20 ºC) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty | |

| | |
|---|---|
| Formulated By: | Lawrence Barry 030921 |
| Reviewed By: | Pedro L. Rentas 030921 |

| | Part | Lot | Dilution | Initial | Uncertainty | Nominal | Initial | **Final** | Expanded Uncertainty | **SDS Information** (Solvent Safety Info. On Attached pg.) | | | NIST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Compound** | Number | Number | Factor | Vol. (mL) | Pipette (mL) | Conc. (µg/mL) | Conc. (µg/mL) | **Conc. (µg/mL)** | +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | SRM |
| 1. Ammonium hexafluorosilicate (Si) | 58114 | 070120 | 0.1000 | 300.0 | 0.084 | 1000 | 10000.0 | **1000.0** | **2.1** | 16919-19-0 | 2.50 mg/m3 | orl-rat 70 mg/kg | NA |




1493

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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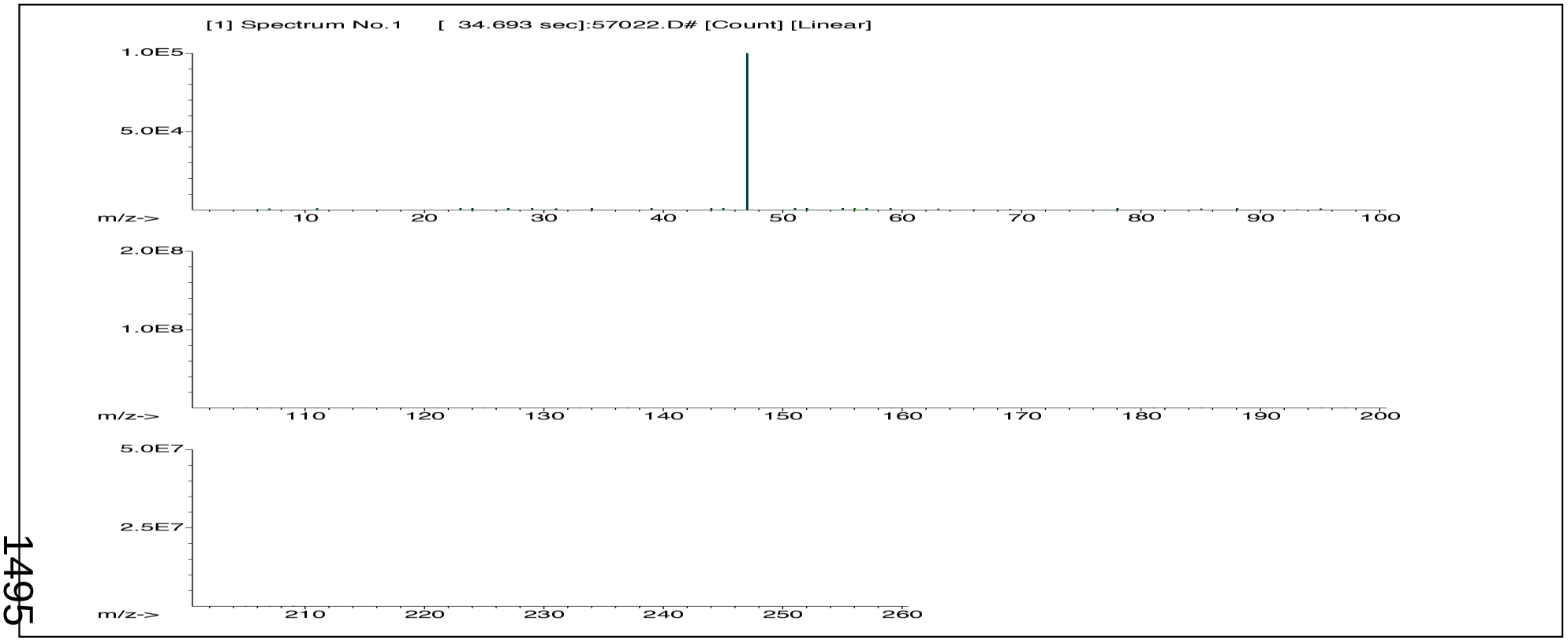
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57022** | 20370011 | Nitric Acid | |
| **Lot Number:** | **070721** | | | |
| **Description:** | **Titanium (Ti)** | | | |
| | | 2.0% | 40.0 | Nitric Acid |
| **Expiration Date:** | 070724 | | (mL) | |
| **Recommended Storage:** | Ambient (20 ºC) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 070721 |
| Reviewed By: | Pedro L. Rentas | 070721 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | **Final Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorotitanate (Ti) | 58122 | 070120 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 16962-40-6 | 2.5 (F) mg/m3 | NA | 3162a |




1495

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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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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1497

CERTIFIED WEIGHT REPORT:

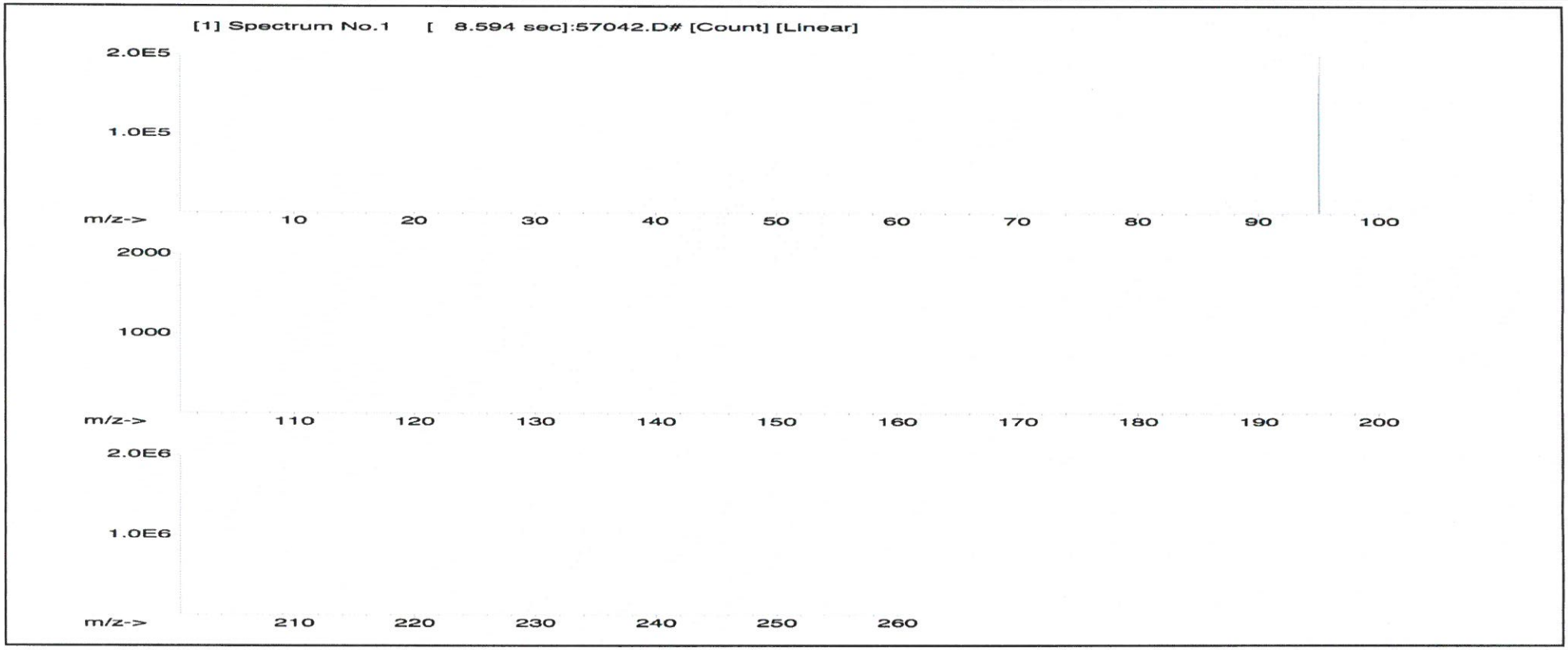
**Part Number:** 57042
**Lot Number:** 051722
**Description:** Molybdenum (Mo)
**Expiration Date:** 051725
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 3000.41

| 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 |



1498

**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:**

* 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***

M5288 R: 07/21/2022

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CERTIFIED WEIGHT REPORT:

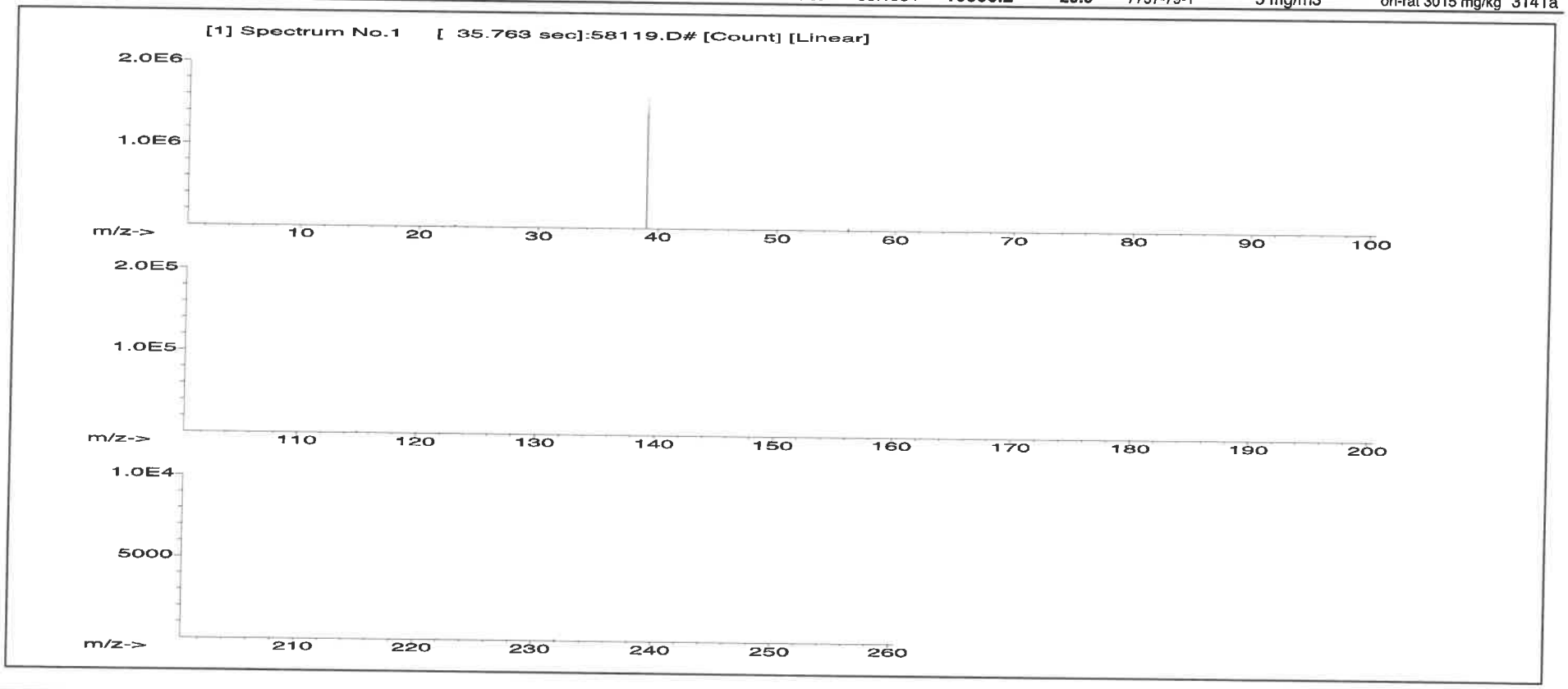
**Part Number:** 58119
**Lot Number:** 071122
**Description:** Potassium (K)

**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 |




1499

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

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

(T)= Target analyte

**Physical Characterization:**

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

**Certified by:**

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

1500

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M5289 R: 07/12/22 BH

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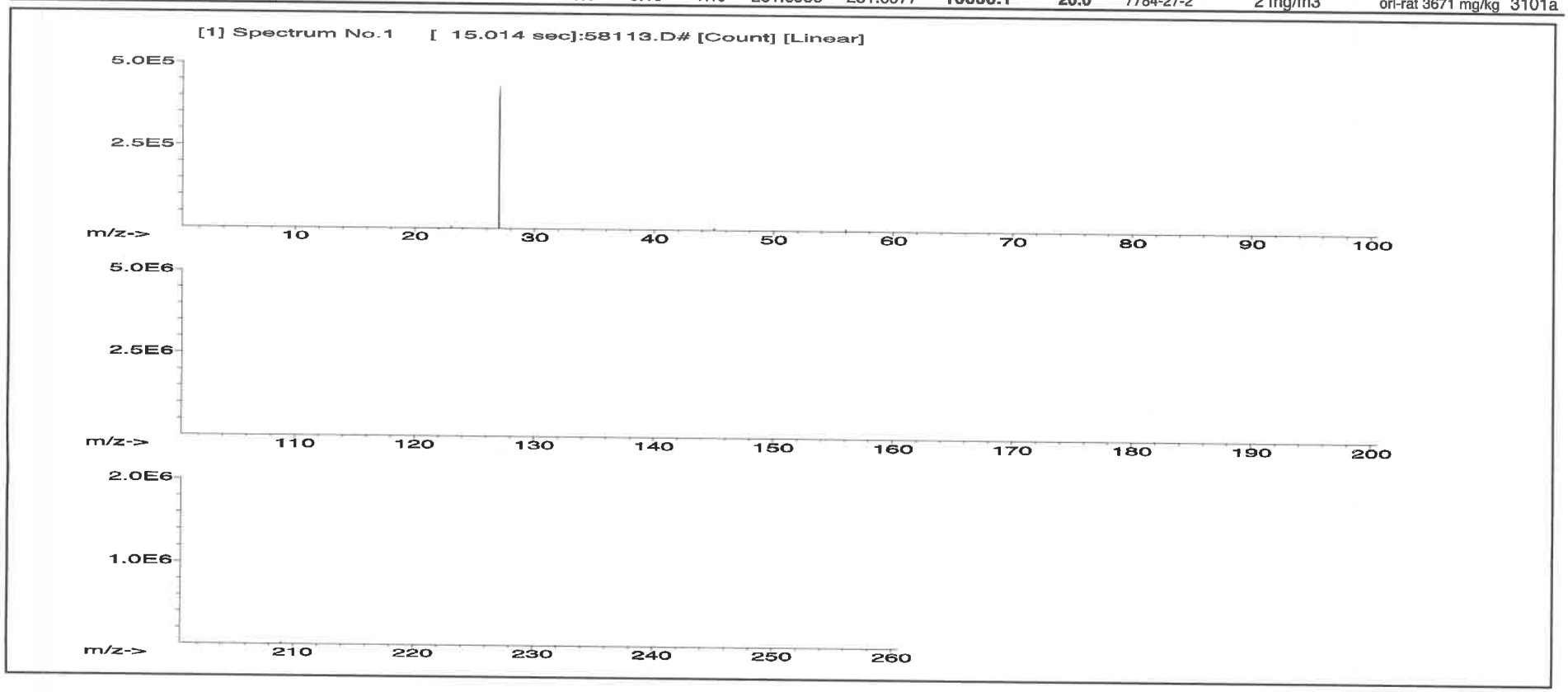
1501

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 |



1502

**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

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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

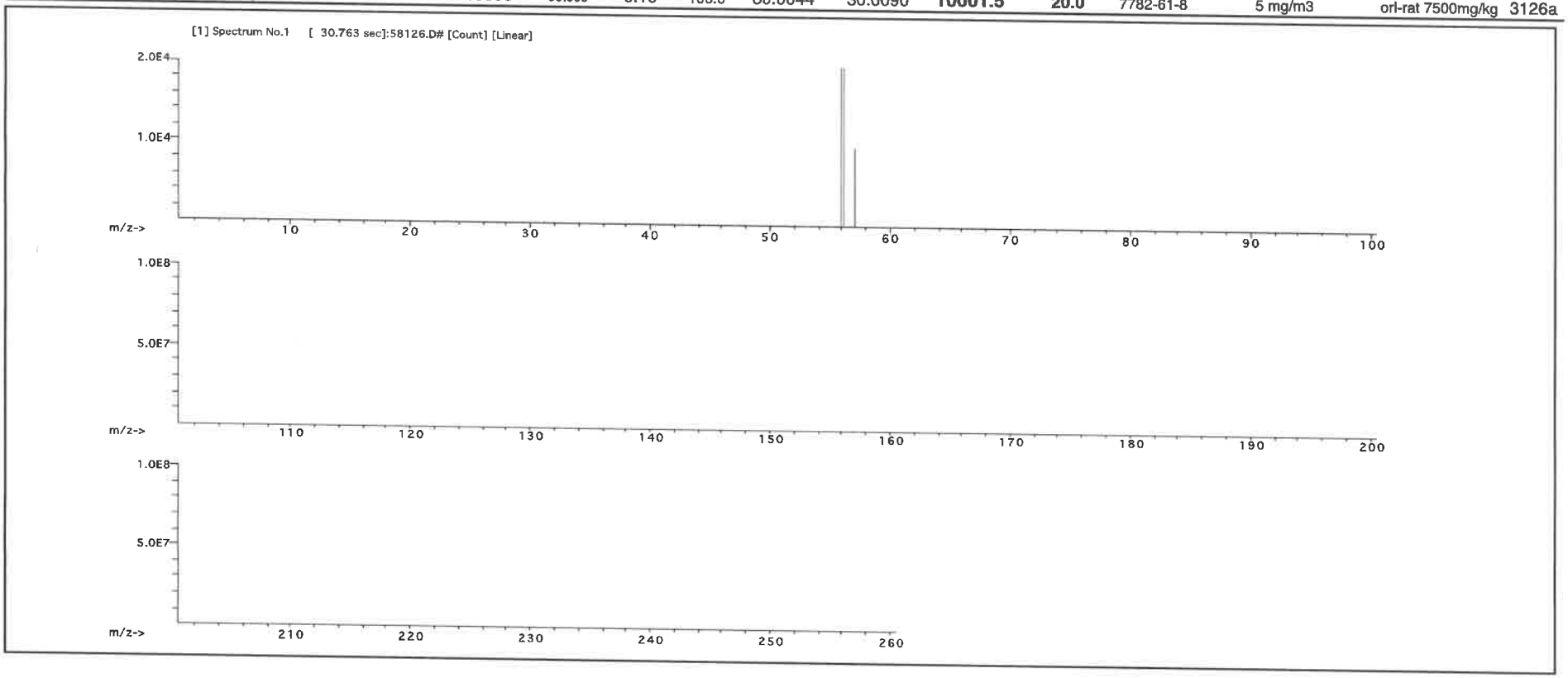
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20370011 | Nitric Acid | |
| 5.0% | 150.0 (mL) | Nitric Acid | |

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 |




1505

**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.
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1506

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# Certificate of Analysis

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | 6020CAL-1 |
| Lot Number: | S2-MEB711244 |
| Matrix: | 5% (v/v) HNO3<br>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** |



1507

**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

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M5496 R 7/20/23

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1511

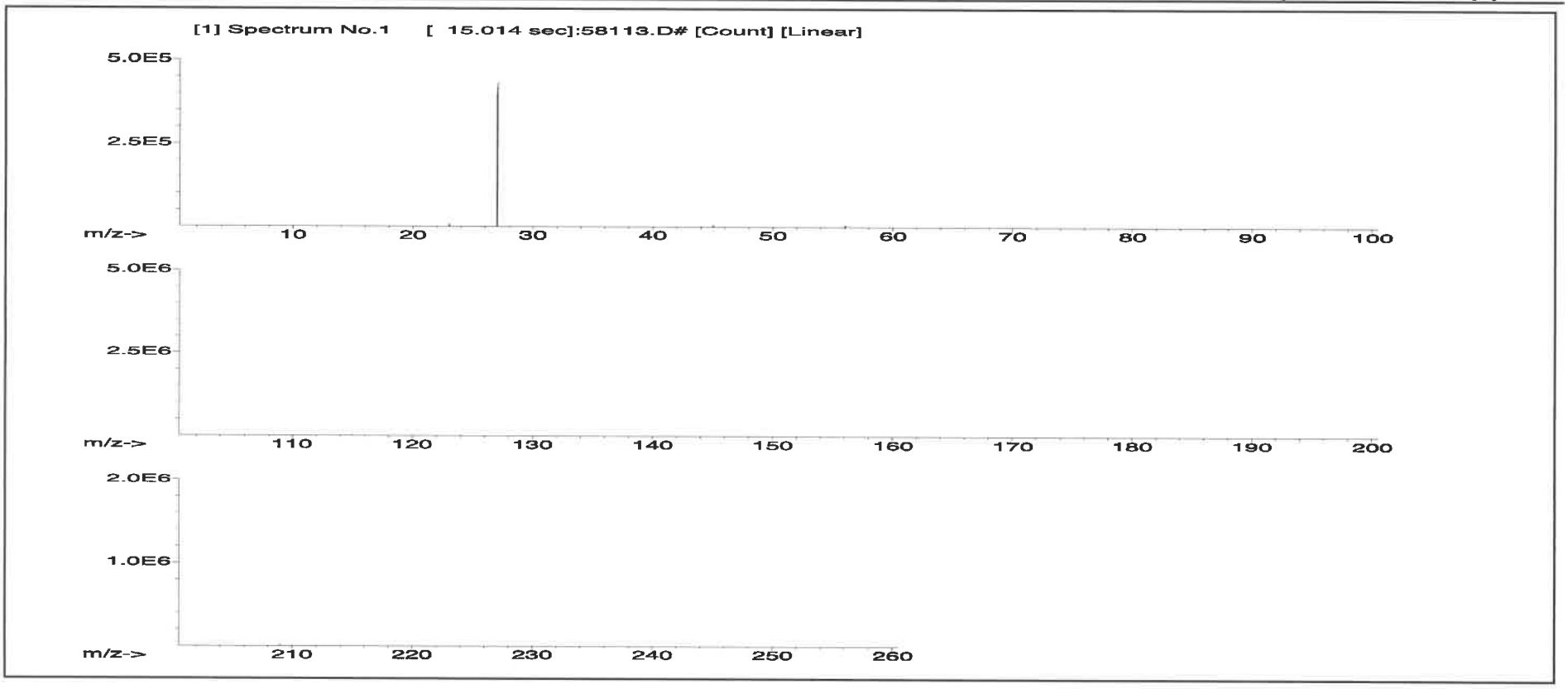
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Lot #** | | |
| **Lot Number:** | **011623** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Aluminum (Al)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 011626 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 011623 |
| Reviewed By: | Pedro L. Rentas | 011623 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aluminum nitrate nonahydrate (Al) | IN022 | ALM112021A1 | 10000 | 99.999 | 0.10 | 7.30 | 273.9779 | 274.0078 | **10001.1** | **20.0** | 7784-27-2 | 2 mg/m3 | orl-rat 3671 mg/kg | 3101a |



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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

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

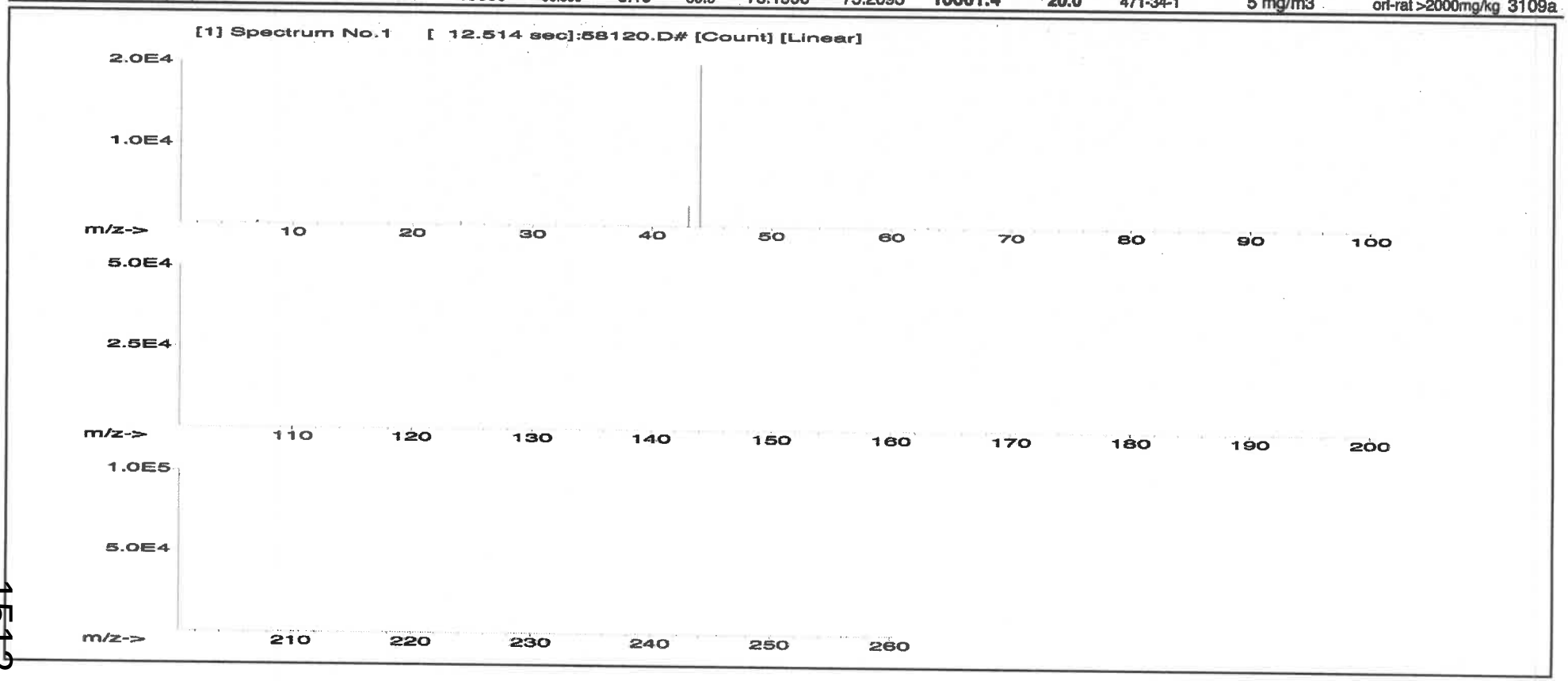
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031523 |
| Reviewed By: | Pedro L. Rentas | 031523 |

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




1512

**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).

151513

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CERTIFIED WEIGHT REPORT:

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

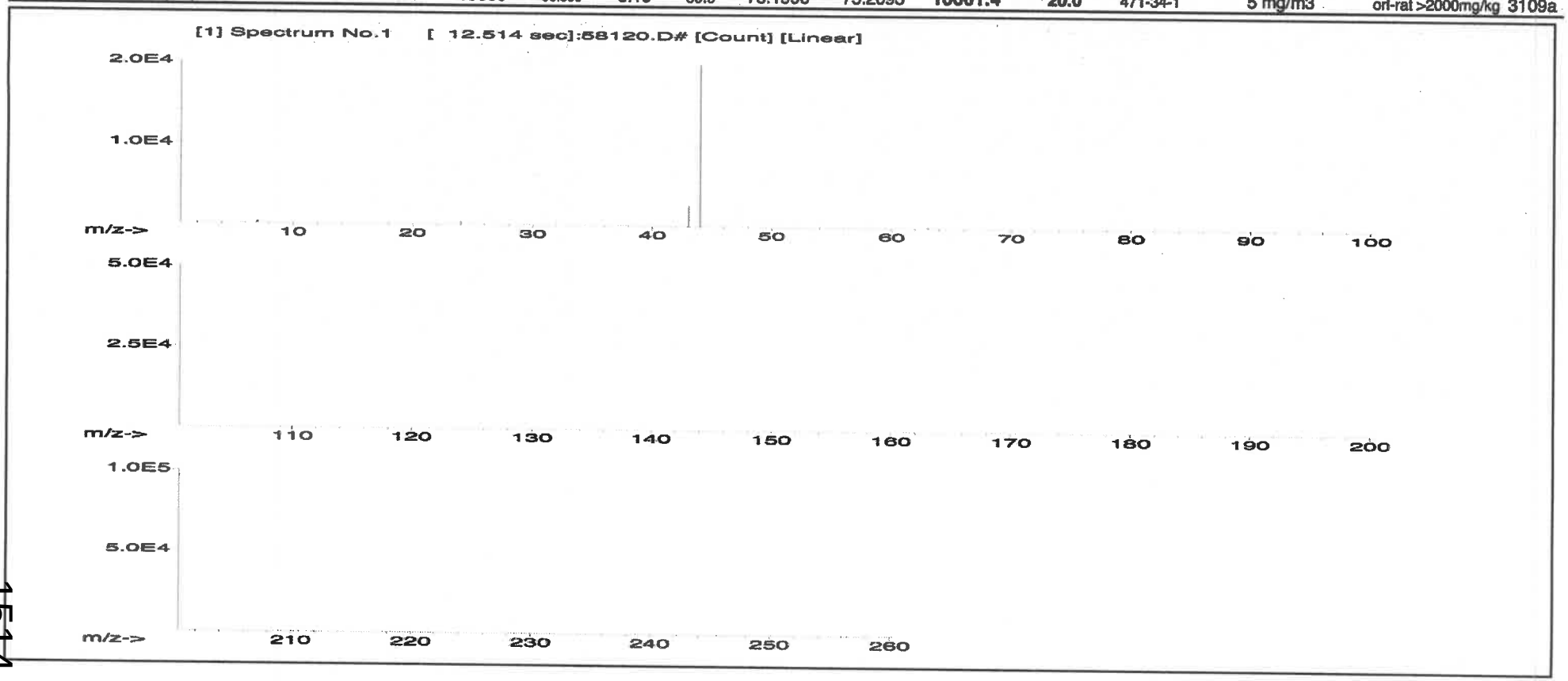
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

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 |




1514

**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).

151515

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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

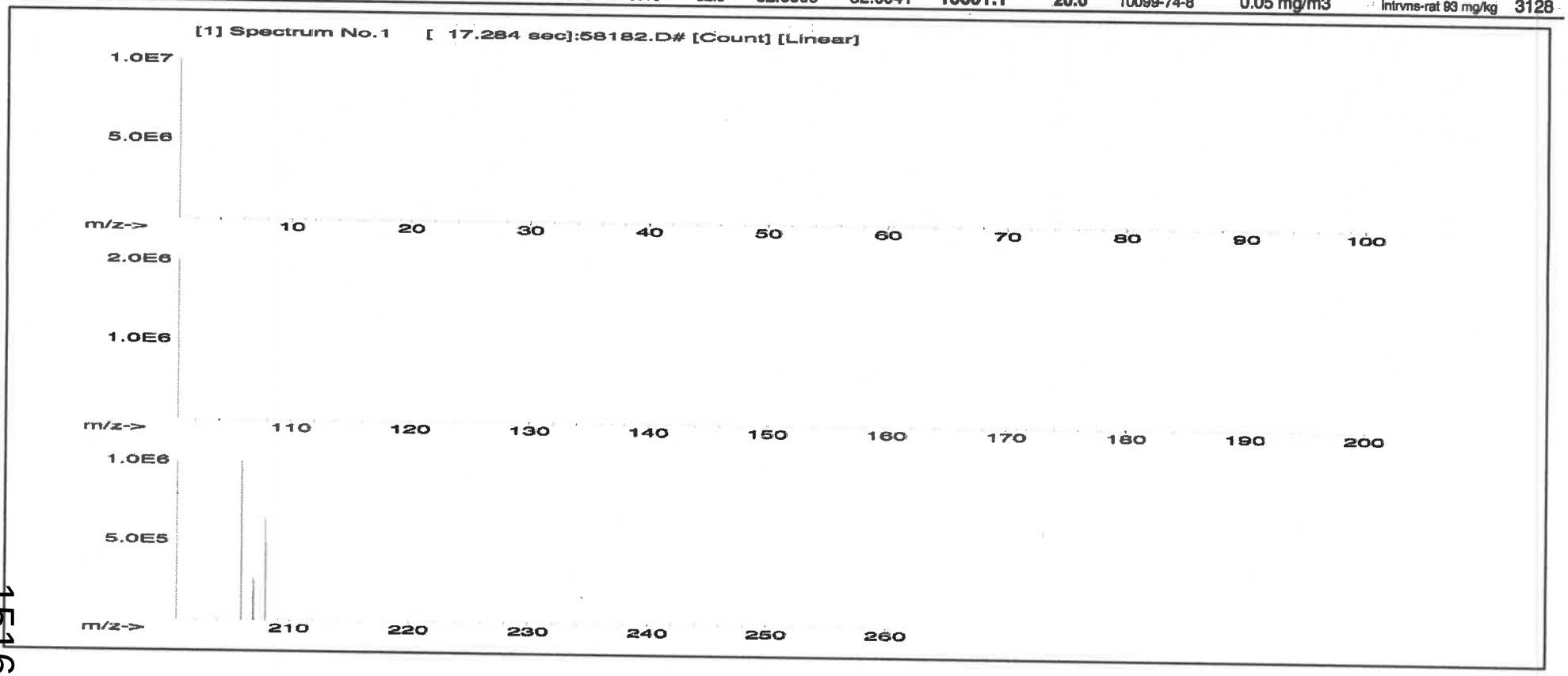
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

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 |




1516

**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).

TSL7

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M5519. M5520 BH R:03/17/23

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1518

CERTIFIED WEIGHT REPORT:

**Part Number:** 58119
**Lot Number:** 120822
**Description:** Potassium (K)

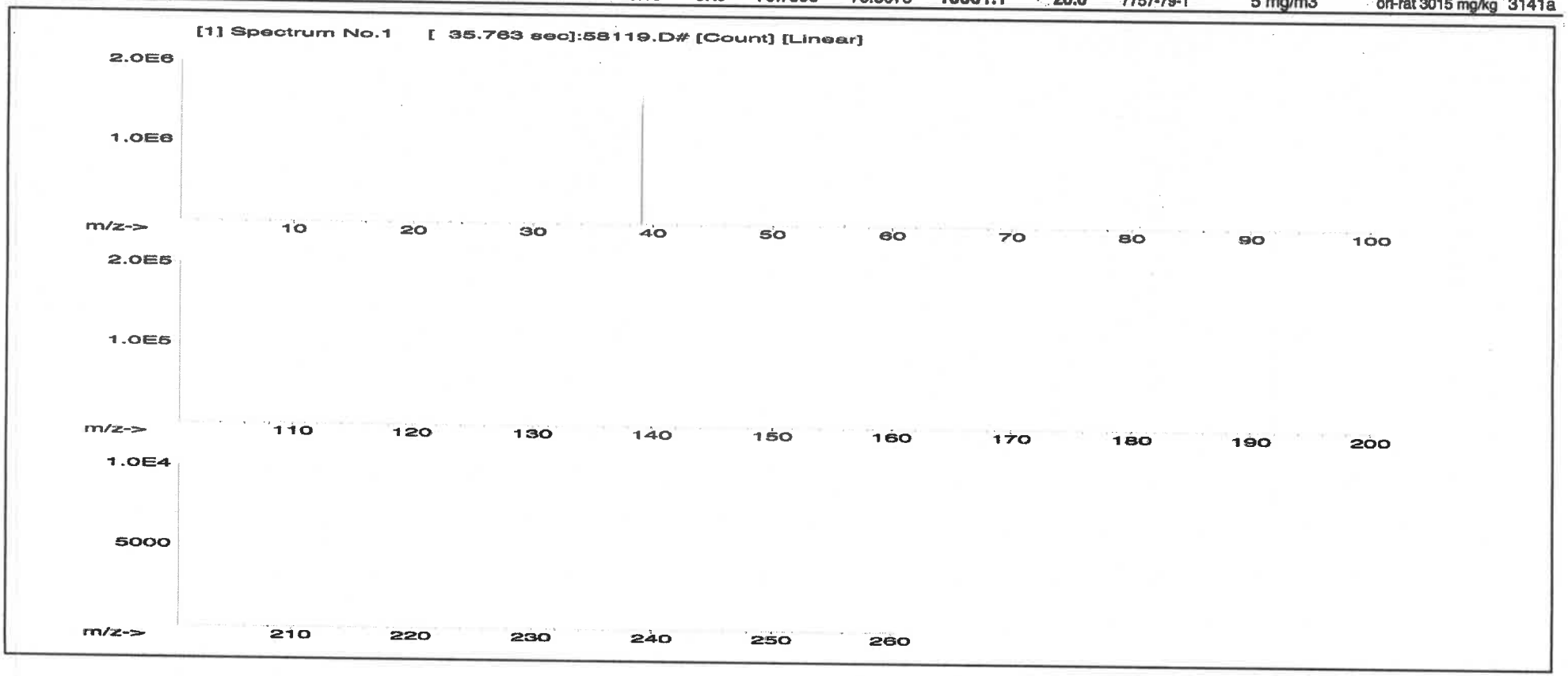
**Expiration Date:** 120825
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.4

| | Lot # | | | |
|---|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | | |
| 2% | 60.0 (mL) | Nitric Acid | | |
| | 5E-05 | Balance Uncertainty | | |
| | 0.06 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 120822 |
| Reviewed By: | Pedro L. Rentas | 120822 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 79.7990 | 79.8075 | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



1519

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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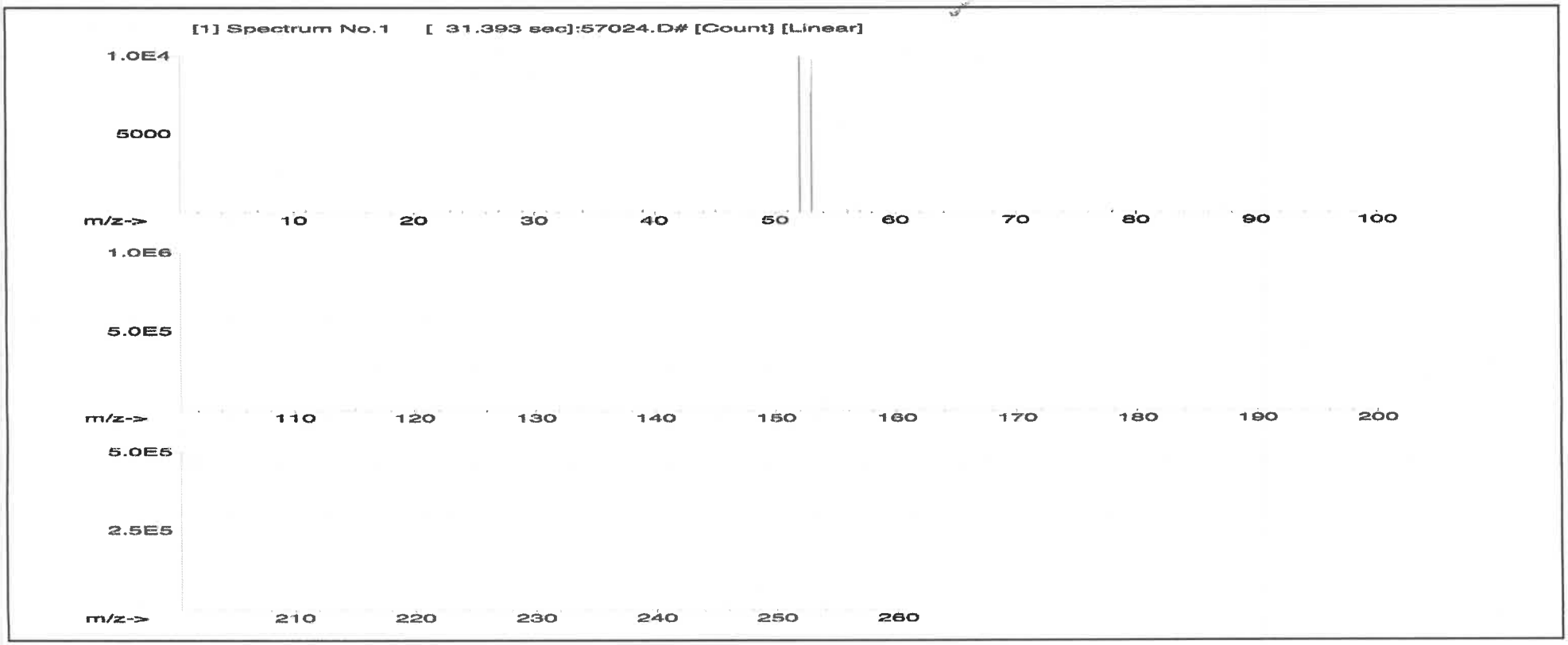
1520

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 |



1521

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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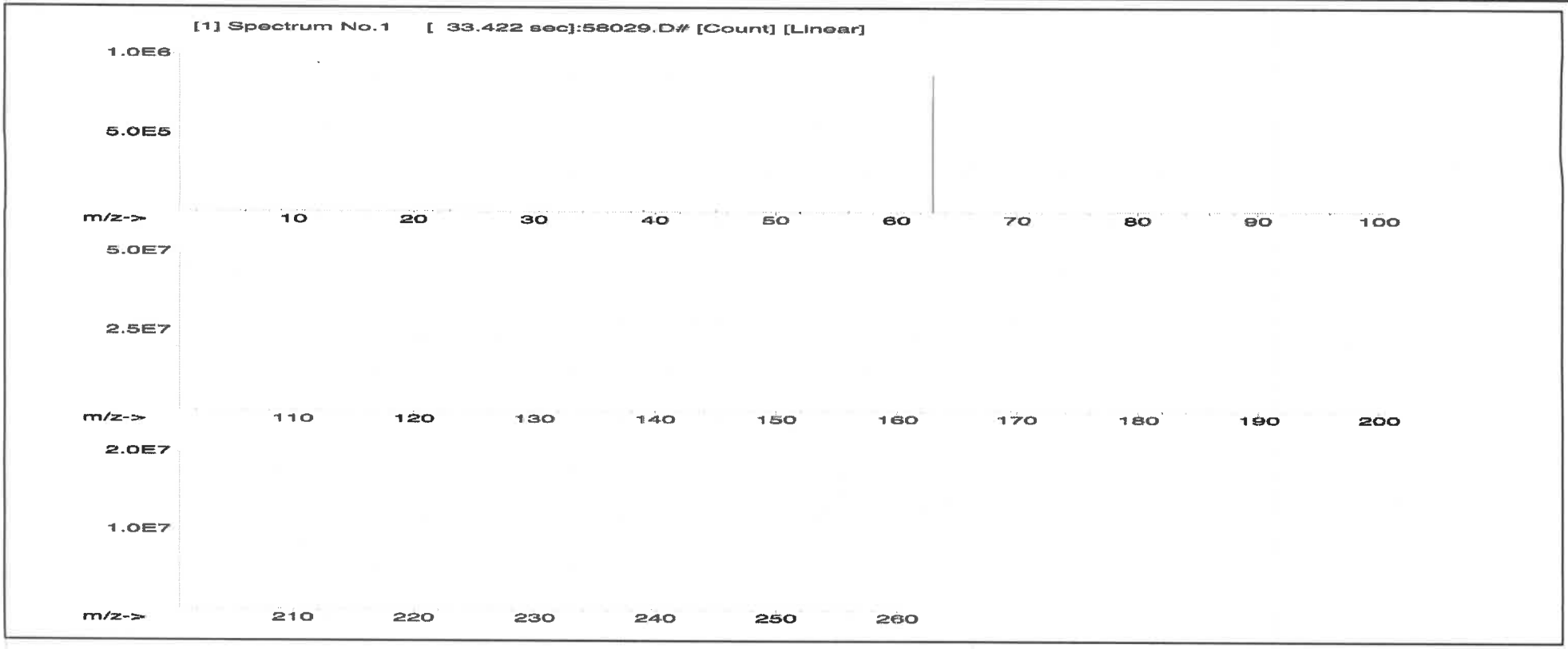
1522

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 |



15230

**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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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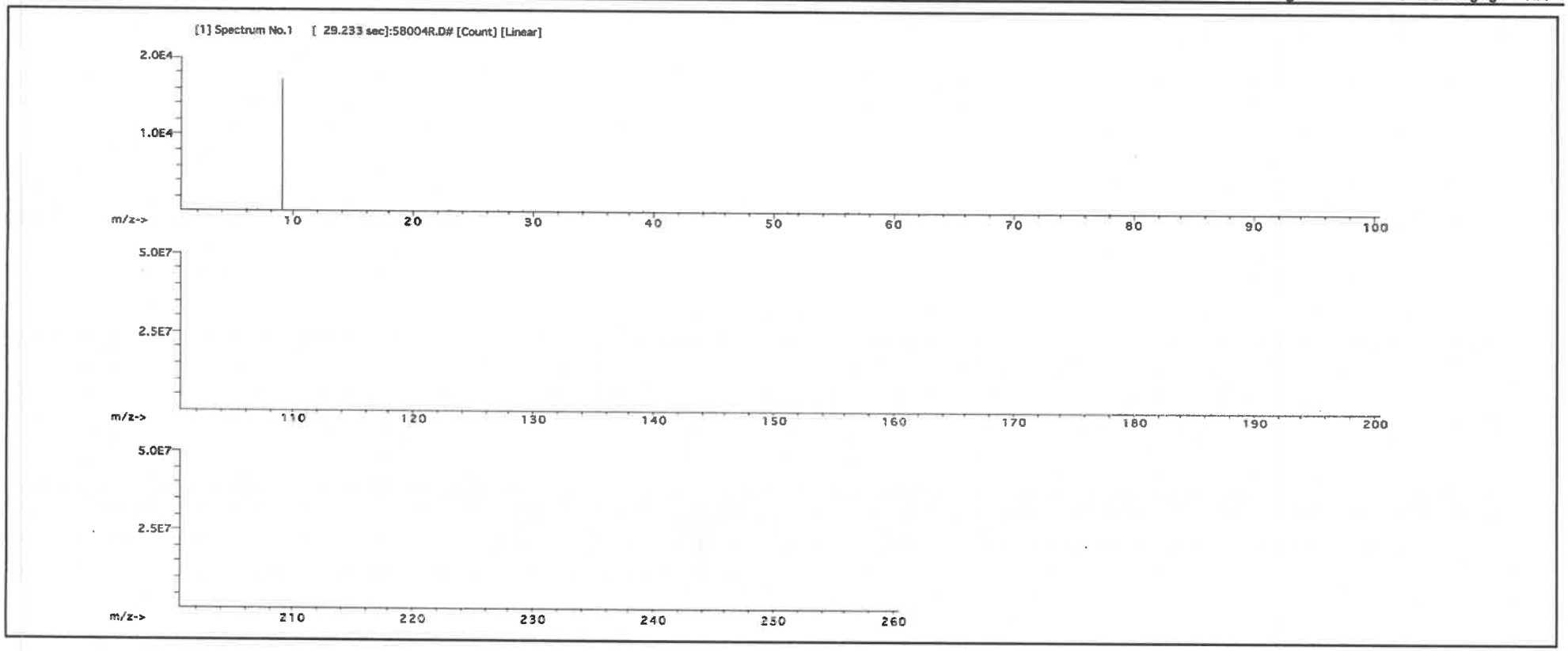
1524

**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.
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1525

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1526

CERTIFIED WEIGHT REPORT:

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

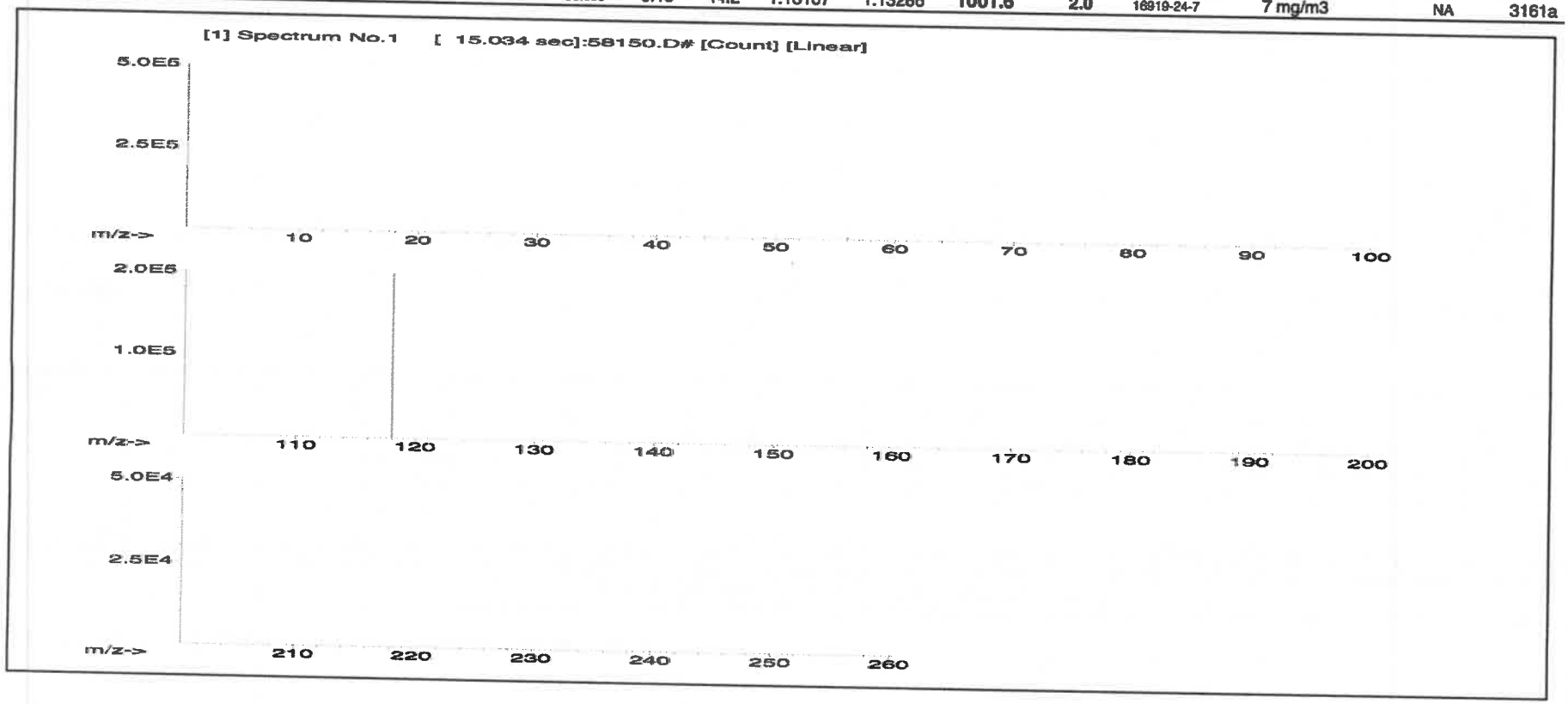
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | 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 |



1527

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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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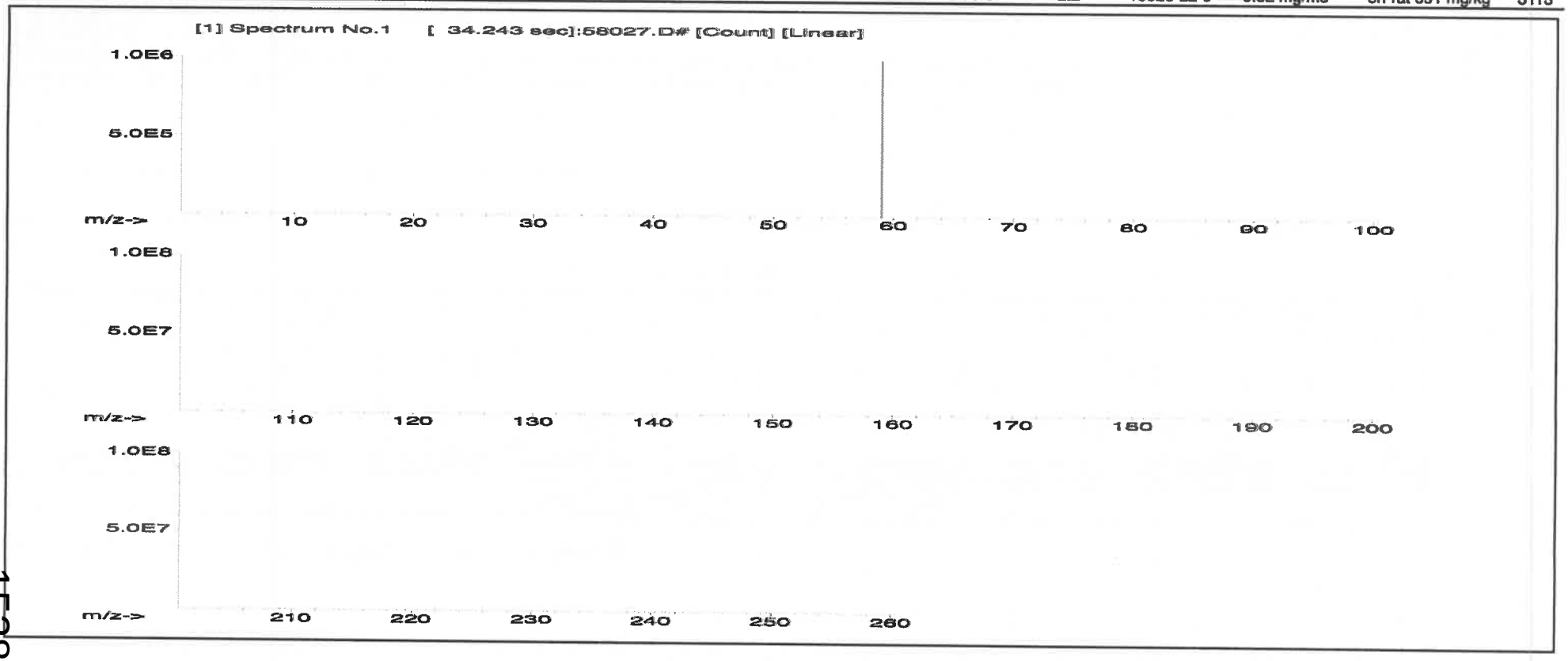
CERTIFIED WEIGHT REPORT:

| | | 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 |




1528

**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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* All standard containers are meticulously cleaned prior to use.
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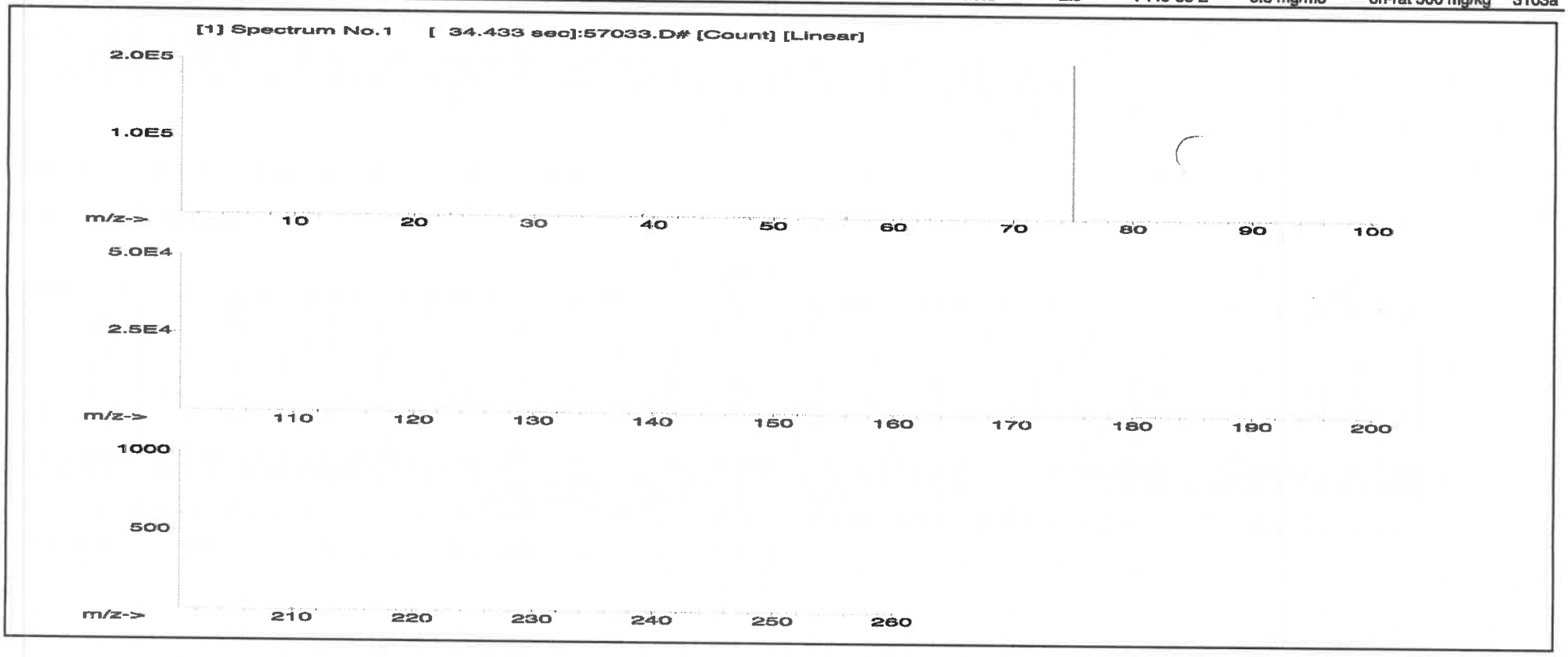
1530

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 |



1531

**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.
* 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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R1 02/09/24. M58165

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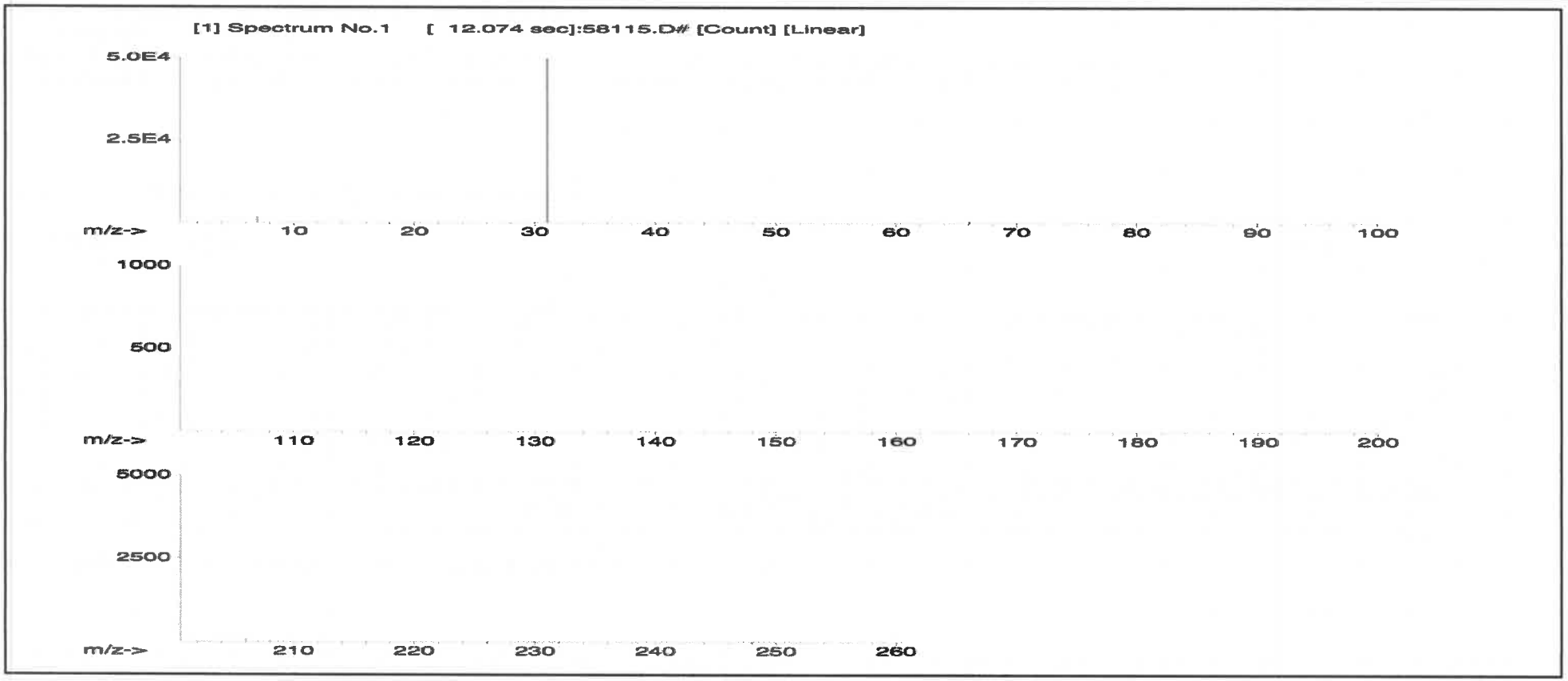
1532

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.

* 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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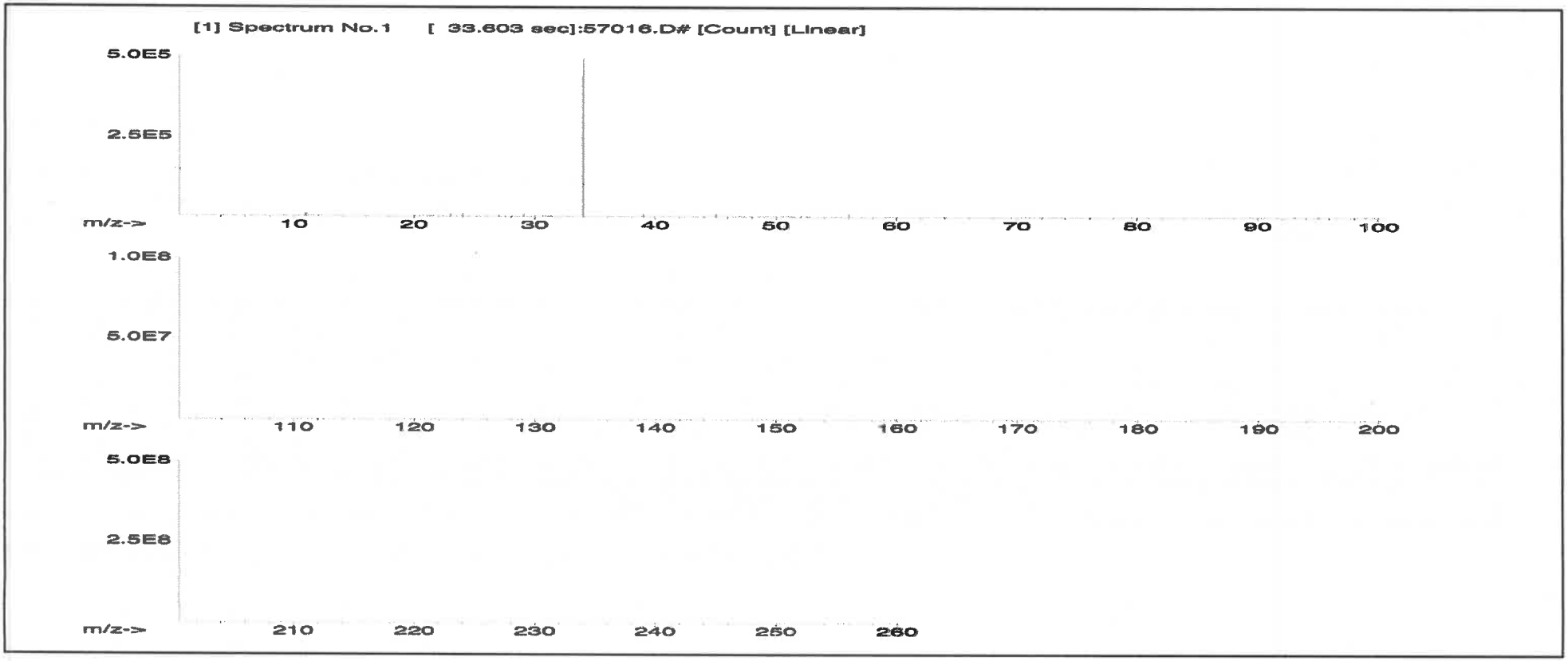
1534

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 |



1535

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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1536

CERTIFIED WEIGHT REPORT:

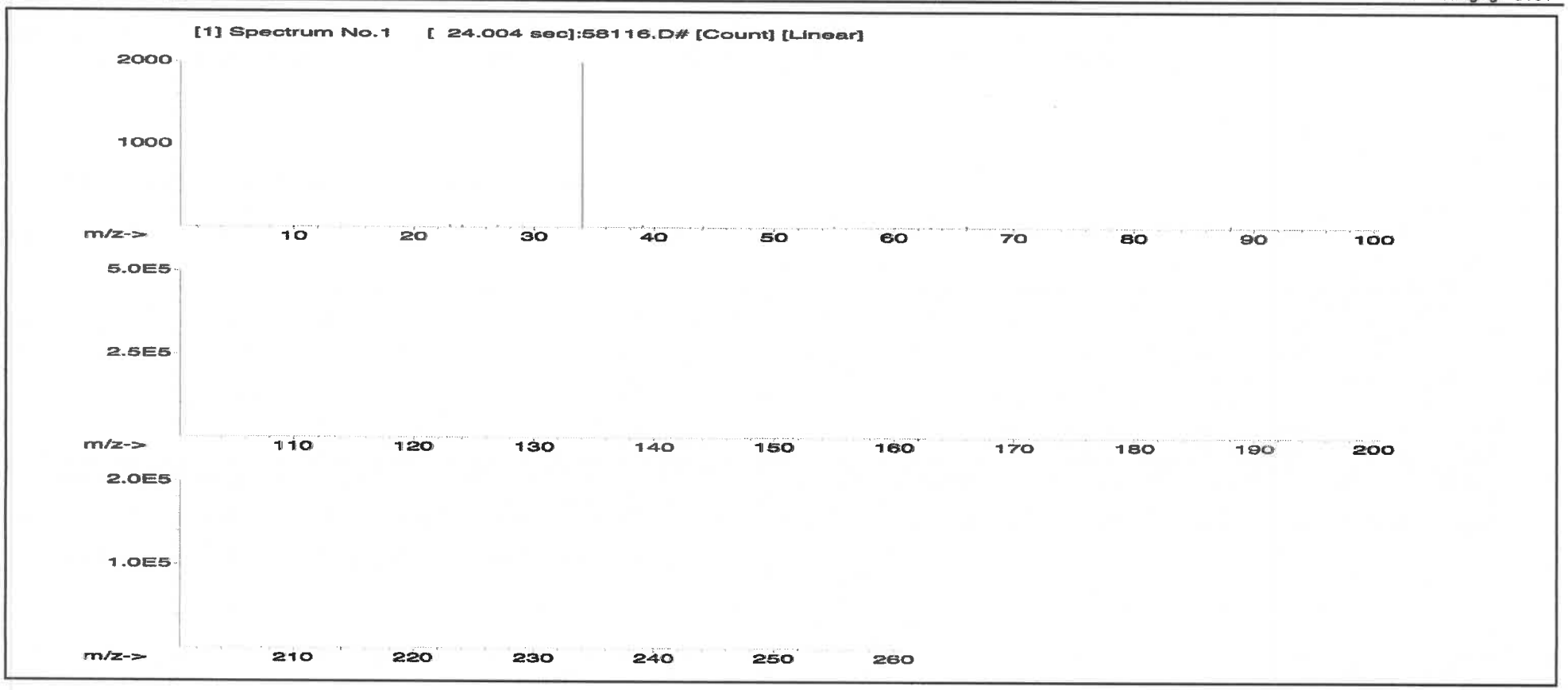
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

**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 |



153

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

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

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

(T)= Target analyte

**Physical Characterization:**

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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1538

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

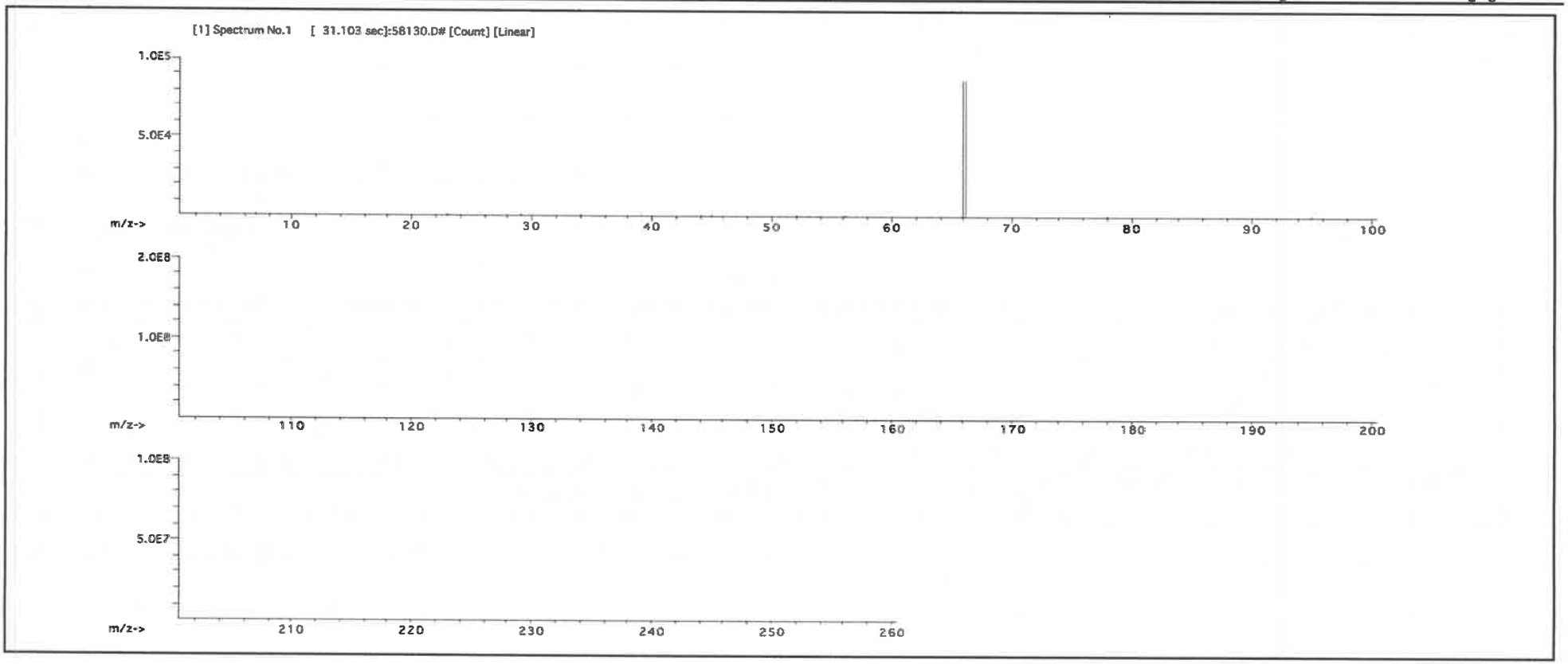
**Weight shown below was diluted to (mL):** 3000.4 0.06 Flask Uncertainty

| | | 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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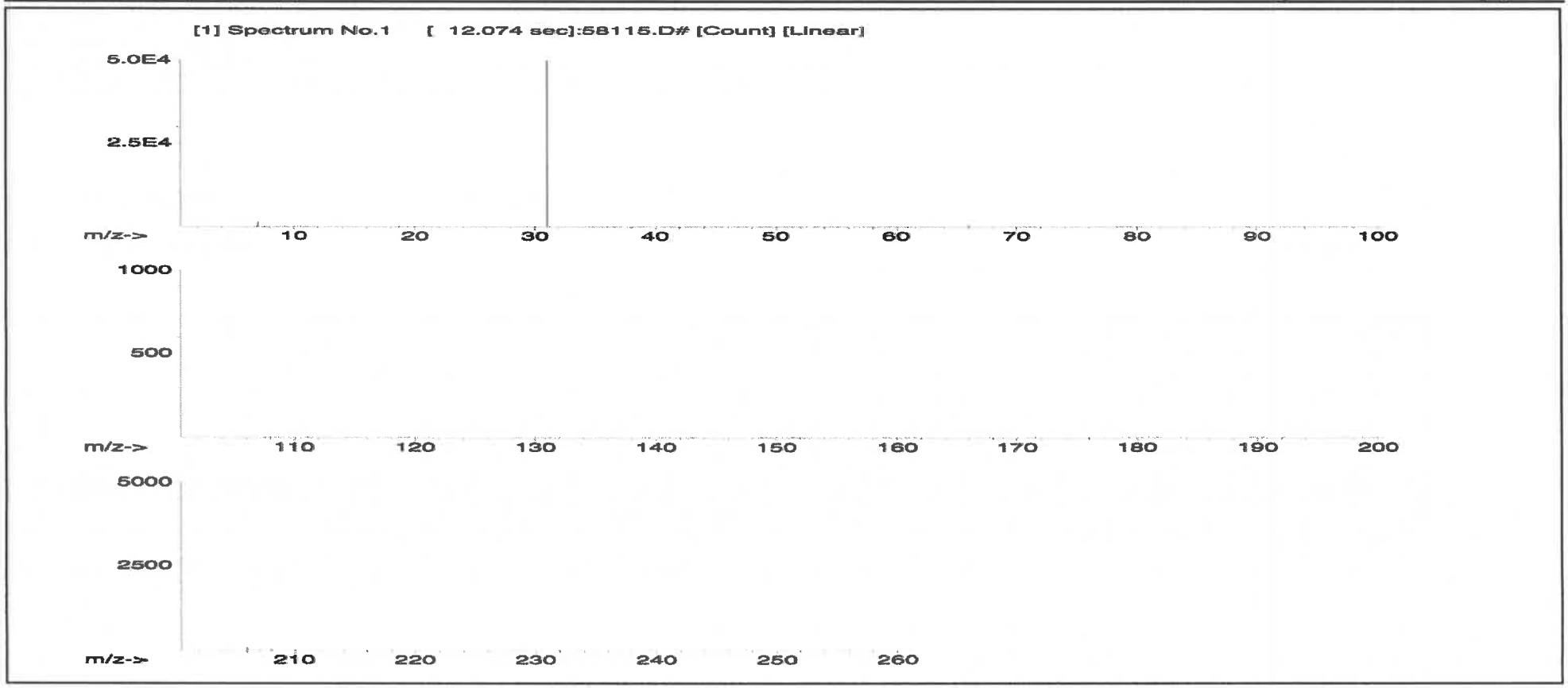
1540

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 |



1541

**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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***Certified Reference Material CRM***

M5960 KK R. 6/11/24

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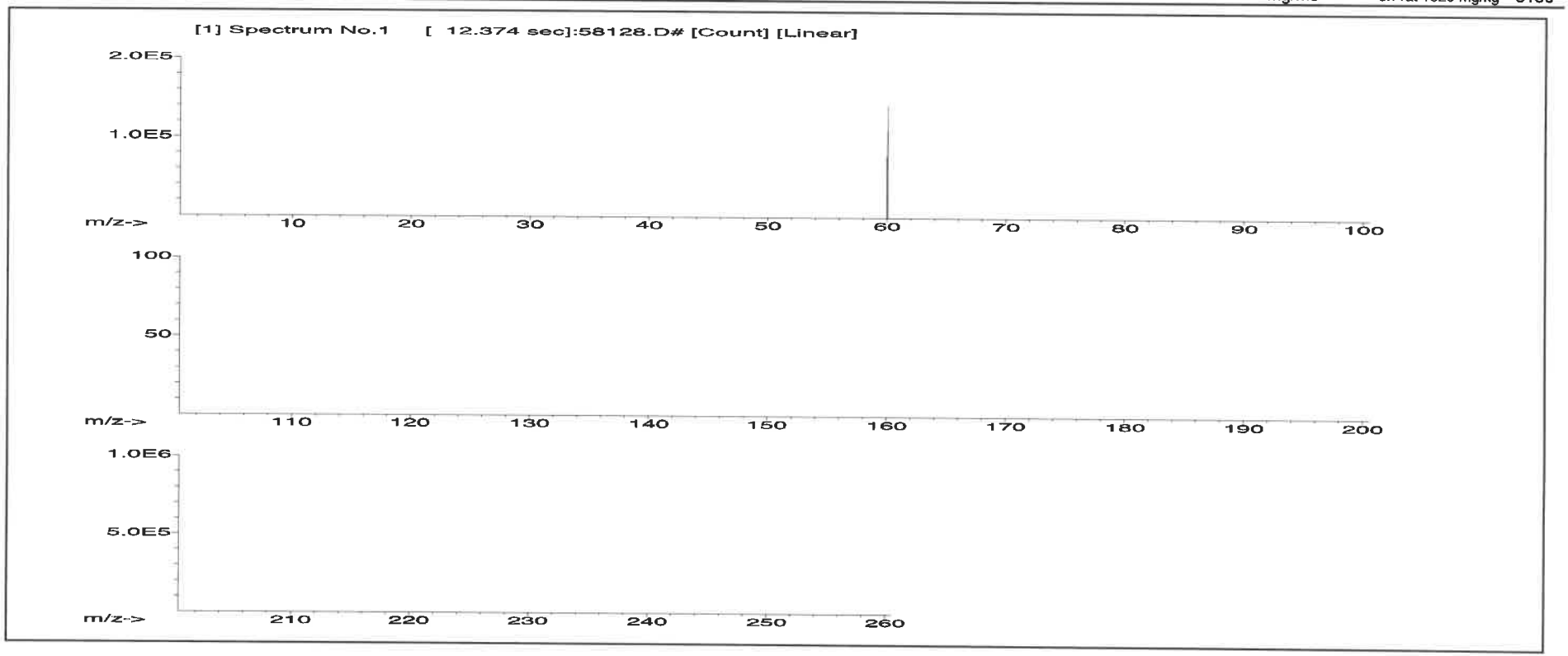
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57028** | | **Lot #** | | |
| **Lot Number:** | **041124** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Nickel (Ni)** | | | | |
| | | 2% | 5.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 041127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 249.85 | 0.002 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Brian Geddes | 041124 |
| Reviewed By: | Pedro L. Rentas | 041124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 | NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | **1000.0** | **2.0** | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |




1542

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

* 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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M5961 R: 6/11/24

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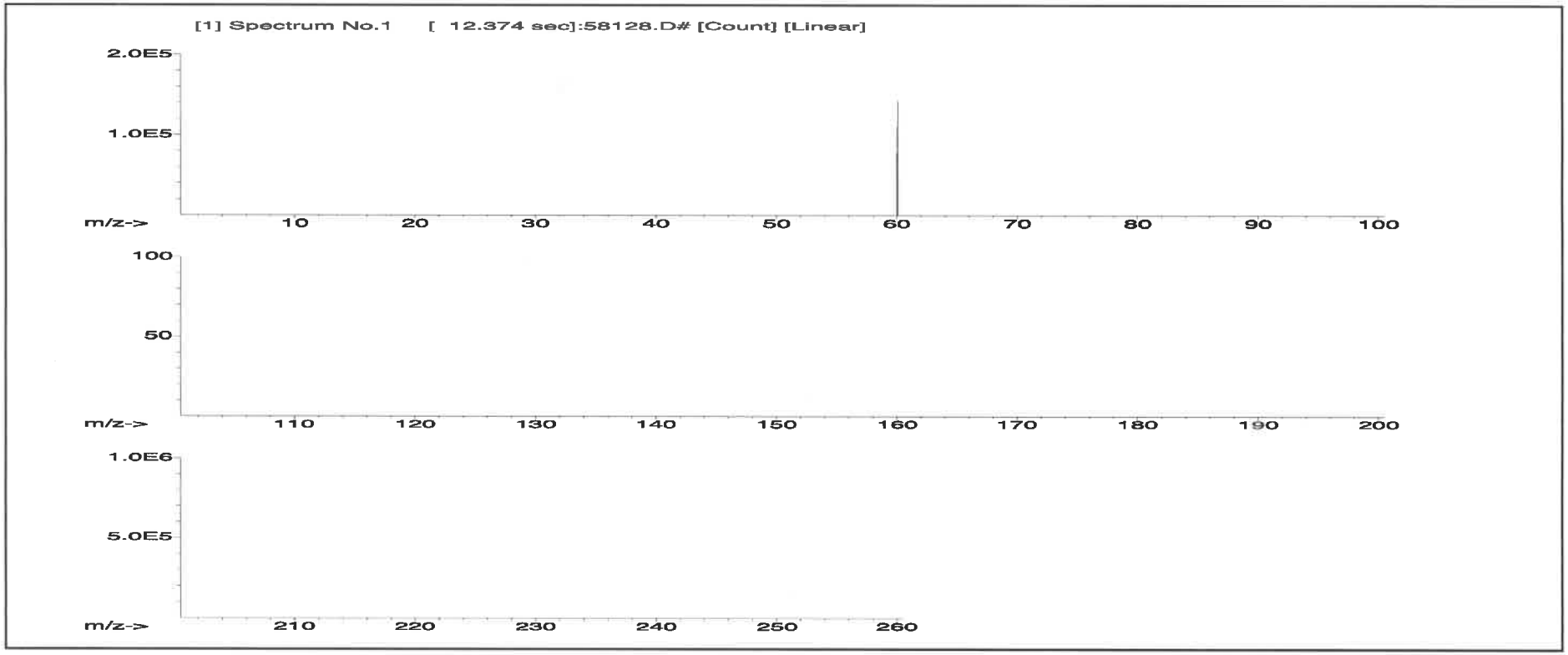
CERTIFIED WEIGHT REPORT:

| | | | 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 |



1545

**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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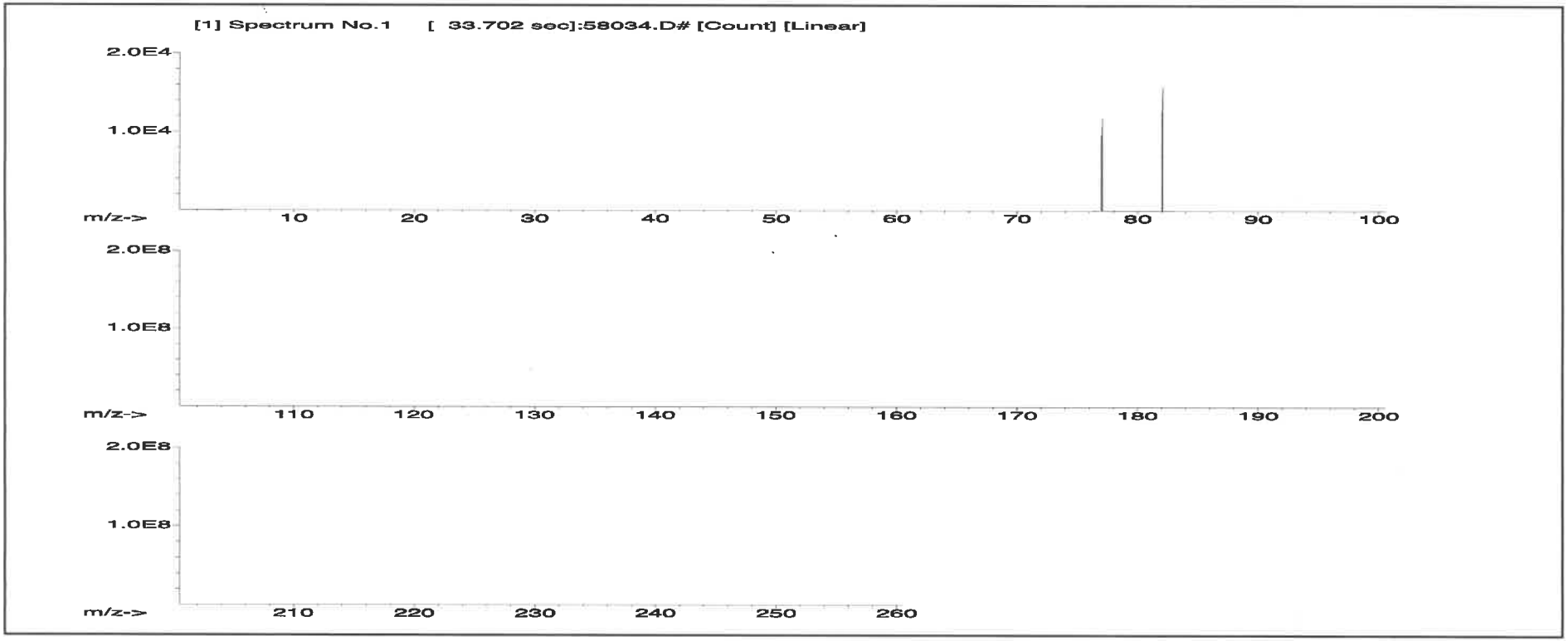
CERTIFIED WEIGHT REPORT:

| | | 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 |



1547

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>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



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## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

INORGANIC VENTURES
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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Molybdenum |
| Starting Material: | Ammonium Molybdate |
| Starting Material Lot#: | 2361 |
| Starting Material Purity: | 99.9893% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000590 | M | Eu | < | 0.000300 | M | Na | | 0.000879 | M | Se | < | 0.008000 | M | Zn | | 0.000598 |
| M | Al | | 0.000563 | M | Fe | < | 0.006500 | M | Nb | < | 0.029000 | i | Si | < | | M | Zr | < | 0.001800 |
| M | As | < | 0.002100 | M | Ga | < | 0.000300 | i | Nd | < | | M | Sm | < | 0.000300 | | | | |
| M | Au | < | 0.000300 | M | Gd | < | 0.000300 | M | Ni | < | 0.008000 | M | Sn | < | 0.008900 | | | | |
| M | B | < | 0.003300 | M | Ge | < | 0.000300 | M | Os | < | 0.000590 | M | Sr | | 0.000175 | | | | |
| M | Ba | | 0.001689 | M | Hf | < | 0.001800 | i | P | < | | M | Ta | < | 0.004200 | | | | |
| M | Be | < | 0.000890 | M | Hg | < | 0.003300 | M | Pb | < | 0.000300 | M | Tb | < | 0.000300 | | | | |
| M | Bi | < | 0.000890 | M | Ho | < | 0.000300 | M | Pd | < | 0.001800 | M | Te | < | 0.021000 | | | | |
| O | Ca | | 0.006334 | M | In | < | 0.032000 | M | Pr | < | 0.013000 | M | Th | < | 0.000300 | | | | |
| O | Cd | < | 0.026000 | M | Ir | < | 0.000300 | M | Pt | < | 0.000300 | O | Tl | < | 0.032000 | | | | |
| M | Ce | < | 0.008300 | M | K | | 0.130213 | M | Rb | | 0.004575 | M | Tl | | 0.001266 | | | | |
| M | Co | | 0.000598 | M | La | < | 0.000300 | M | Re | < | 0.000300 | M | Tm | < | 0.000300 | | | | |
| M | Cr | | 0.000527 | O | Li | | 0.000059 | M | Rh | < | 0.000300 | M | U | < | 0.005300 | | | | |
| M | Cs | | 0.000527 | M | Lu | < | 0.000300 | M | Ru | < | 0.079000 | M | V | < | 0.000890 | | | | |
| M | Cu | | 0.002252 | M | Mg | | 0.000563 | i | S | < | | M | W | | 0.087982 | | | | |
| M | Dy | < | 0.000300 | M | Mn | < | 0.005900 | M | Sb | | 0.001513 | M | Y | < | 0.000300 | | | | |
| M | Er | < | 0.000300 | s | Mo | < | | M | Sc | < | 0.001200 | M | Yb | < | 0.000300 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

**Chemical Compatibility -**Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability -** 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution) -**Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

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

**11.2 Lot Expiration Date**

**- July 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Technical

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

1556

M5978, M5979

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# Certificate of Analysis

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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<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>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, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

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

**11.2 Lot Expiration Date**

**- June 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

*Certified Reference Material CRM*

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 | | |

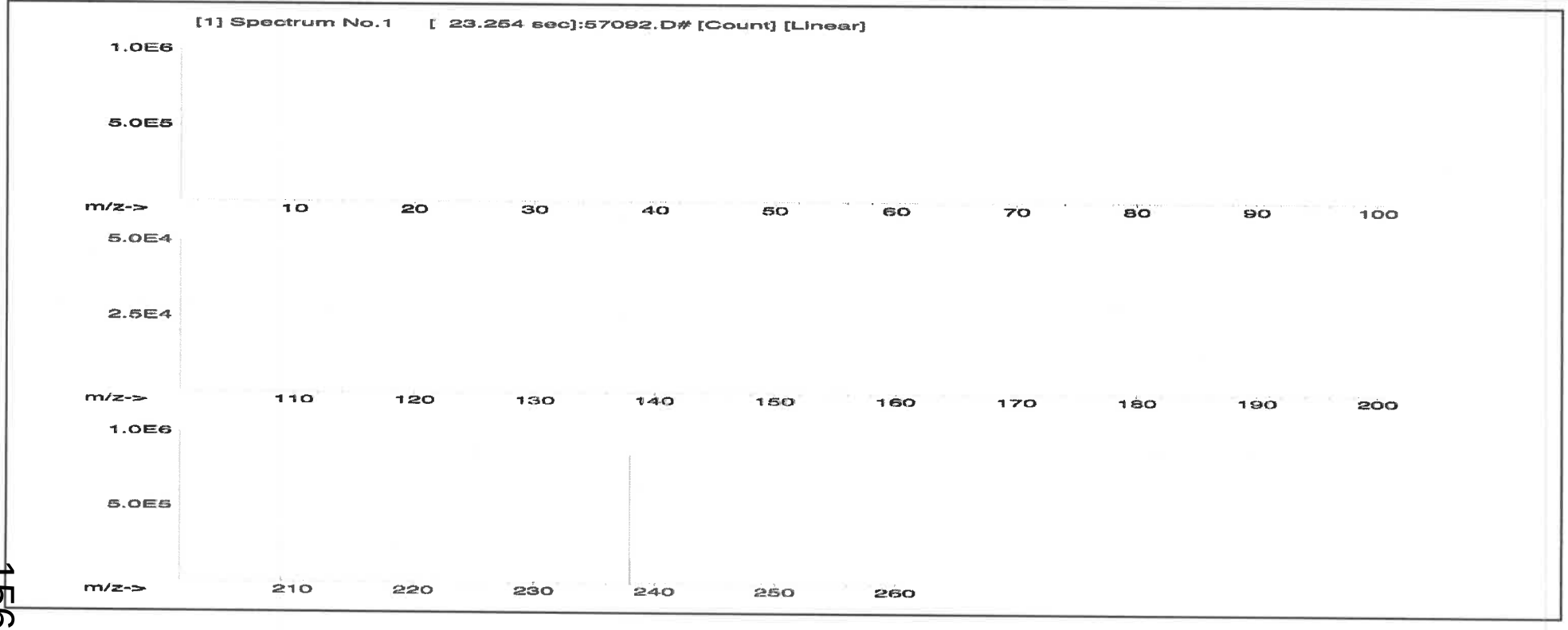
Giovanni Esposito

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

*Certified Reference Material CRM*

M5983 R: 6/11/24

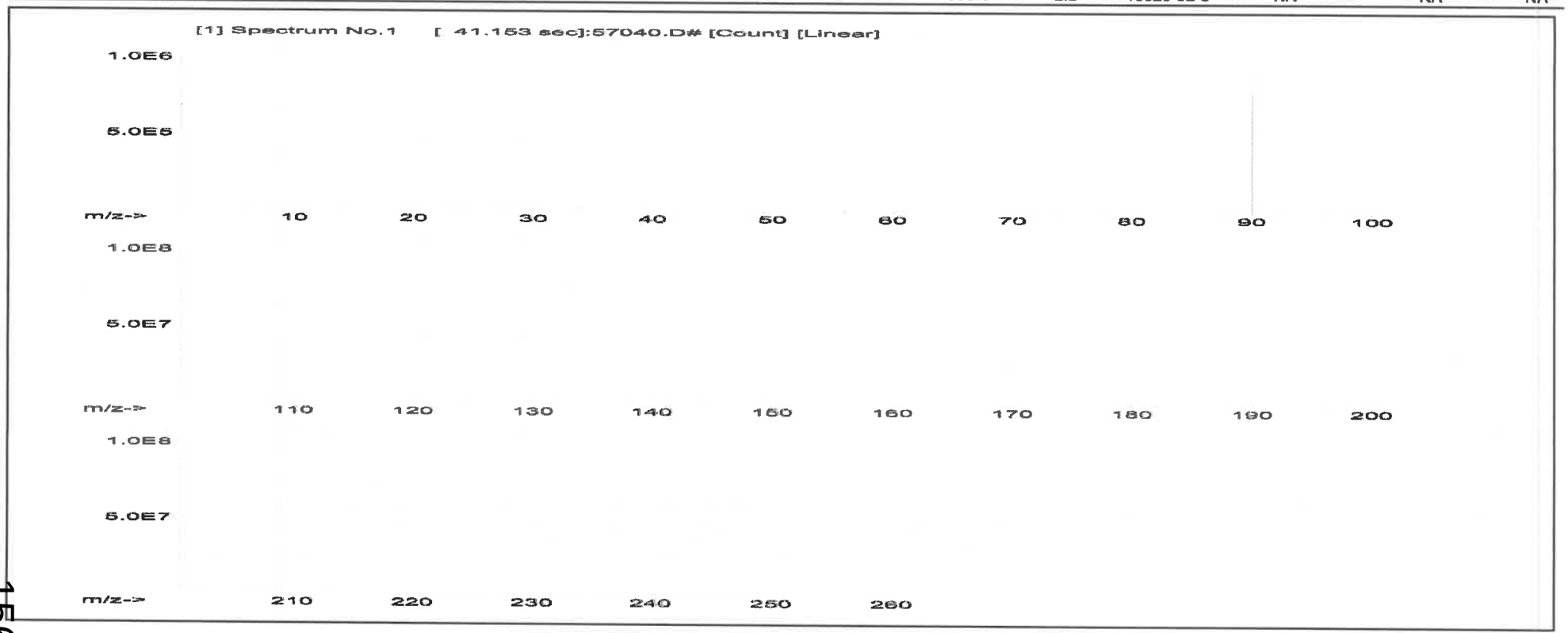
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | 57040 | 21110221 | Nitric Acid | |
| **Lot Number:** | 071423 | | | |
| **Description:** | Zirconium (Zr) | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071426 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | 1000 | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071423 |
| Reviewed By: | Pedro L. Rentas | 071423 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zirconyl chloride octahydrate (Zr) | 58140 | 070621 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 13520-92-8 | NA | NA | NA |

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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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INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

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-SPK-1 |
| Lot Number: | T2-MEB721963 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 2 000 µg/mL ea: Aluminum, Barium,<br>1 000 µg/mL ea: Iron,<br>500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,<br>250 µg/mL ea: Copper,<br>200 µg/mL ea: Chromium,<br>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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

# 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 ppm |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.192 |
| ACS - Bromide (Br) | ≤ 0.005 % | < 0.005 % |
| ACS - Extractable Organic Substances | ≤ 5 ppm | < 1 ppm |
| ACS - Free Chlorine (as $Cl_2$) | ≤ 0.5 ppm | < 0.5 ppm |
| Phosphate ($PO_4$) | ≤ 0.05 ppm | 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.5 ppm | < 0.3 ppm |
| Sulfite ($SO_3$) | ≤ 0.8 ppm | 0.3 ppm |
| Ammonium ($NH_4$) | ≤ 3 ppm | < 1 ppm |
| Trace Impurities - Arsenic (As) | ≤ 0.010 ppm | < 0.003 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 10.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 3.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 20.0 ppb | 2.2 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 31.0 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities - Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities - Gold (Au) | ≤ 4.0 ppb | < 0.2 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities - Iron (Fe) | ≤ 15 ppb | 3 ppb |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Lead (Pb) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.2 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | 0.2 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 1.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | < 10.0 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.0 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | < 0.9 ppb |
| Trace Impurities – Thallium (Tl) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.4 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Vanadium (V) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 1.0 ppb | < 0.1 ppb |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

| Test | Specification | Result |
|---|---|---|

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

R 8/19/24, M60055

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | IV-STOCK-12 |
| Lot Number: | U2-MEB734294 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 10 µg/mL ea: |

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Barium, Ba | 10.01 ± 0.04 µg/mL | Beryllium, Be | 10.01 ± 0.05 µg/mL |
| Bismuth, Bi | 10.01 ± 0.06 µg/mL | Cerium, Ce | 10.01 ± 0.04 µg/mL |
| Cobalt, Co | 10.01 ± 0.05 µg/mL | Indium, In | 10.01 ± 0.04 µg/mL |
| Lead, Pb | 10.00 ± 0.04 µg/mL | Lithium, Li | 10.01 ± 0.04 µg/mL |
| Nickel, Ni | 10.01 ± 0.04 µg/mL | Uranium, U | 10.01 ± 0.05 µg/mL |

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

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Calculated | | See Sec. 4.2 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Bi | ICP Assay | 3106 | 180815 |
| Ce | ICP Assay | 3110 | 160830 |
| Ce | EDTA | 928 | 928 |
| Ce | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Co | Calculated | | See Sec. 4.2 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Calculated | | See Sec. 4.2 |
| Li | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Ni | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| U | ICP Assay | traceable to 3164 | R2-U689597 |
| U | Calculated | | See Sec. 4.2 |

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

### Characterization of CRM/RM by Two or More Methods

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

## 4.0 TRACEABILITY TO NIST

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

**4.1 Thermometer Calibration**

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

**4.2 Balance Calibration**

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

**4.3 Glassware Calibration**

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

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

N/A

## 6.0 INTENDED USE

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

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

**7.1 Storage and Handling Recommendations**

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

**10.1 ISO 9001 Quality Management System Registration**

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 21, 2023

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

**11.2 Lot Expiration Date**

**- June 21, 2028**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

***Certified Reference Material CRM***

M6079 R: 9/30/24

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

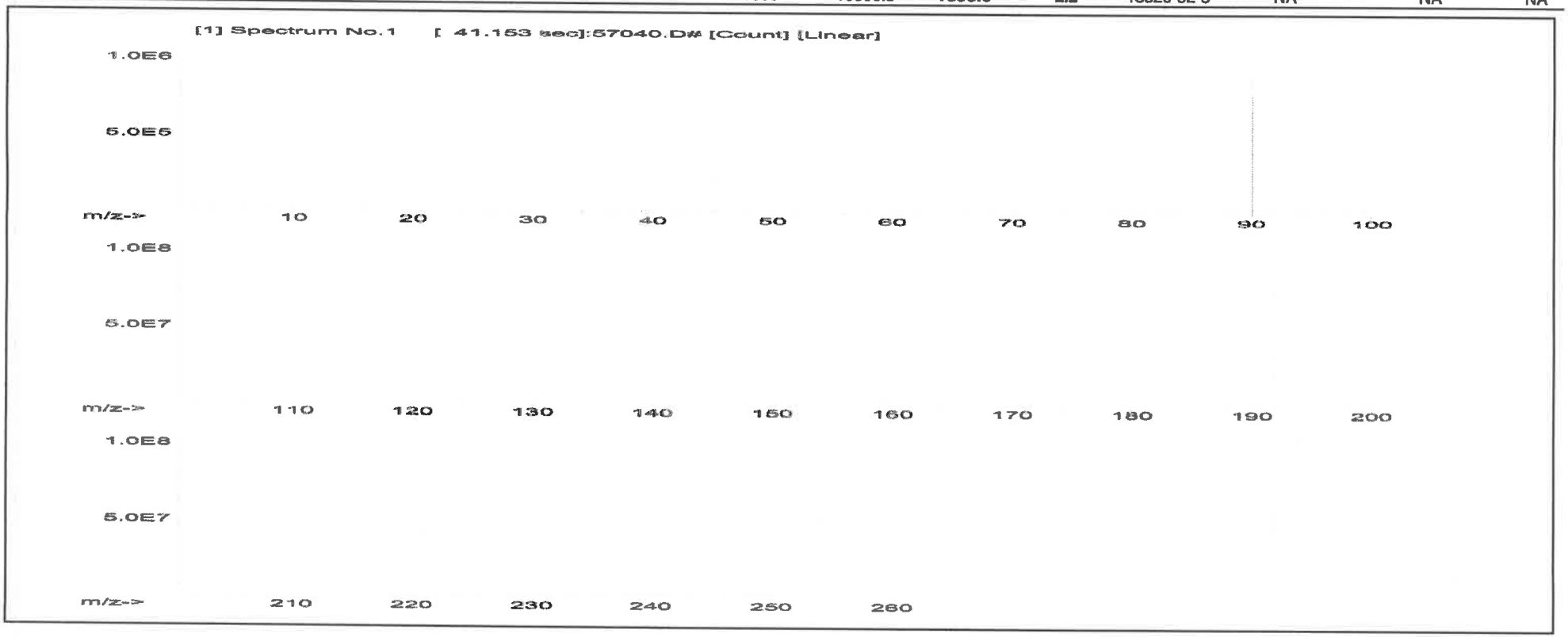
1575

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 |



15760

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.190 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as $Cl_2$) | <= 0.5 ppm | < 0.5 |
| Phosphate ($PO_4$) | <= 0.05 ppm | < 0.03 |
| Sulfate ($SO_4$) | <= 0.5 ppm | < 0.3 |
| Sulfite ($SO_3$) | <= 0.8 ppm | 0.3 |
| Ammonium ($NH_4$) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 29.7 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

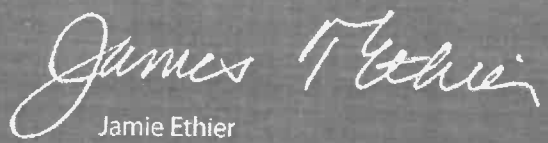
1577

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

1578

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

1581

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

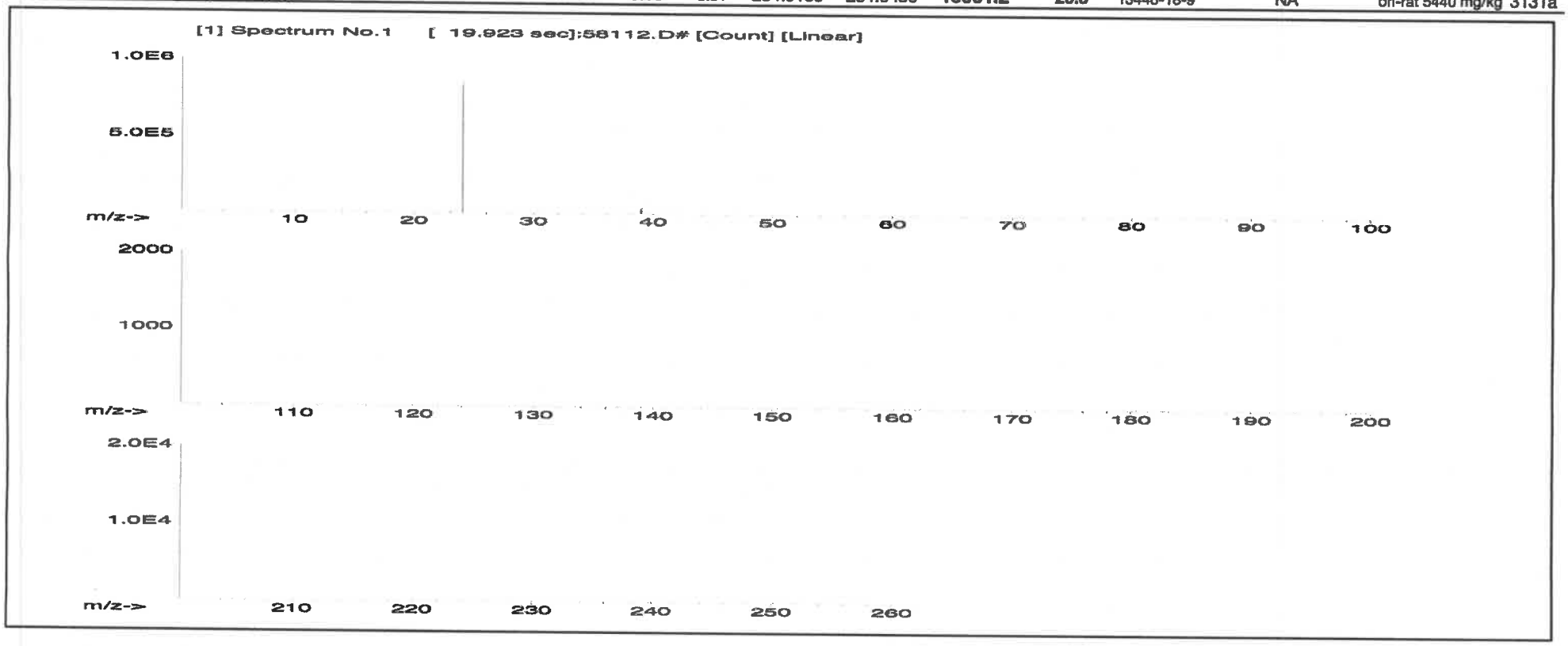
M 6127

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58112** | | **Lot #** | | |
| **Lot Number:** | **112124** | **Solvent:** | 24012496 | Nitric Acid | |
| **Description:** | **Magnesium (Mg)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 112127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 112124 |
| Reviewed By: | Pedro L. Rentas | 112124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9183 | 234.9459 | **10001.2** | **20.0** | 13446-18-9 | NA | orl-rat 5440 mg/kg | 3131a |



1582

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

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

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

(T) = Target analyte

## Physical Characterization:

Certified by:

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

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

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1583

## CERTIFIED WEIGHT REPORT:

R->1/13/25

M6128

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **58025** | **Solvent:** | **Lot #** 24002546 | Nitric Acid |
| **Lot Number:** | **101124** | | | |
| **Description:** | **Manganese (Mn)** | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 101127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.2 | 0.10 | Flask Uncertainty | |

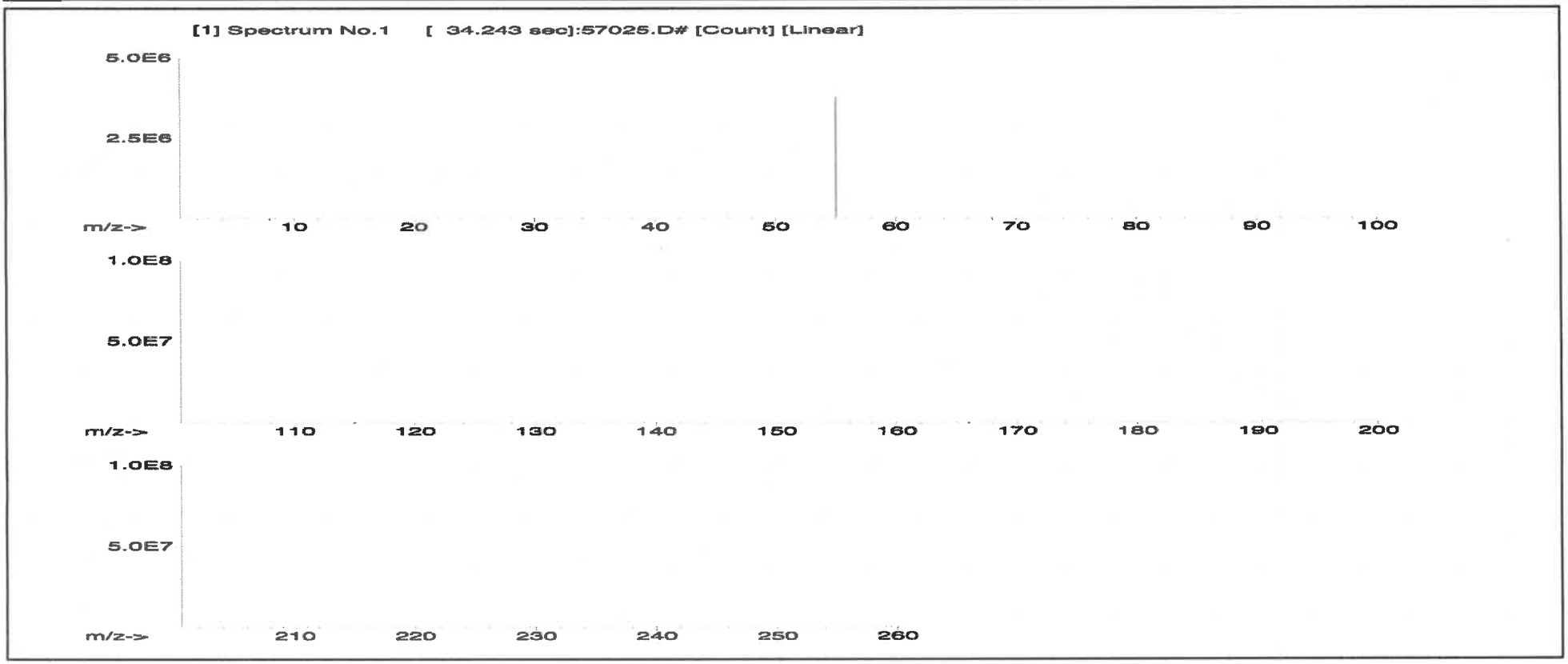
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 101124 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 101124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | **SDS Information** (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Manganese(II) nitrate hydrate (Mn) | IN031 | MNM092020A1 | 1000 | 99.999 | 0.10 | 20.8 | 19.2322 | 19.2344 | **1000.1** | **2.0** | 15710-66-4 | 5 mg/m3 | orl-rat >300mg/kg | 3132 |



1584

## 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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1585

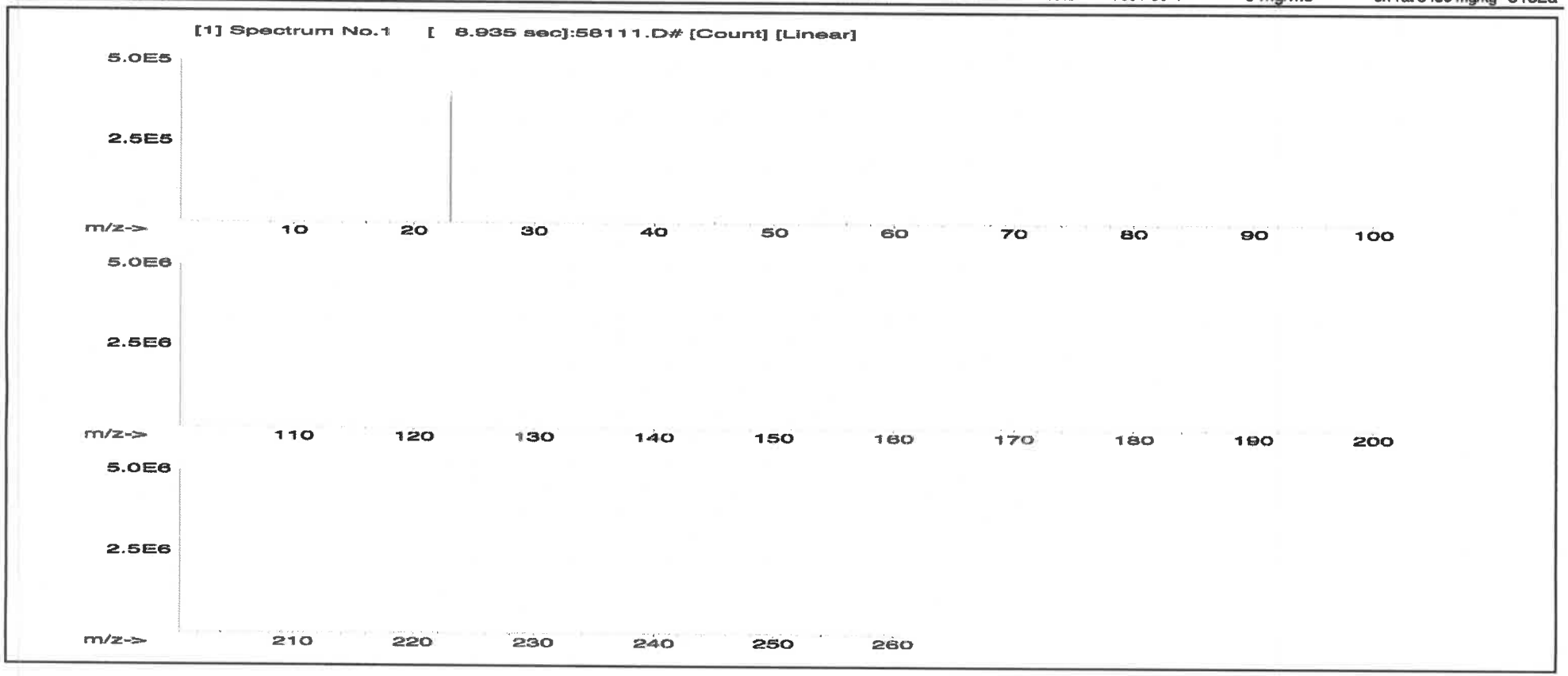
## CERTIFIED WEIGHT REPORT:

R->1/13/25

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **072424** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | | | | |
| | | MG144 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072427 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.2 | 0.10 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 072424 |
| Reviewed By: | Pedro L. Rentas | 072424 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 148.7096 | ###### | **10000.0** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



1586

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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1587

## CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 121724
**Description:** Zinc (Zn)

R → 1/13/25

M6145

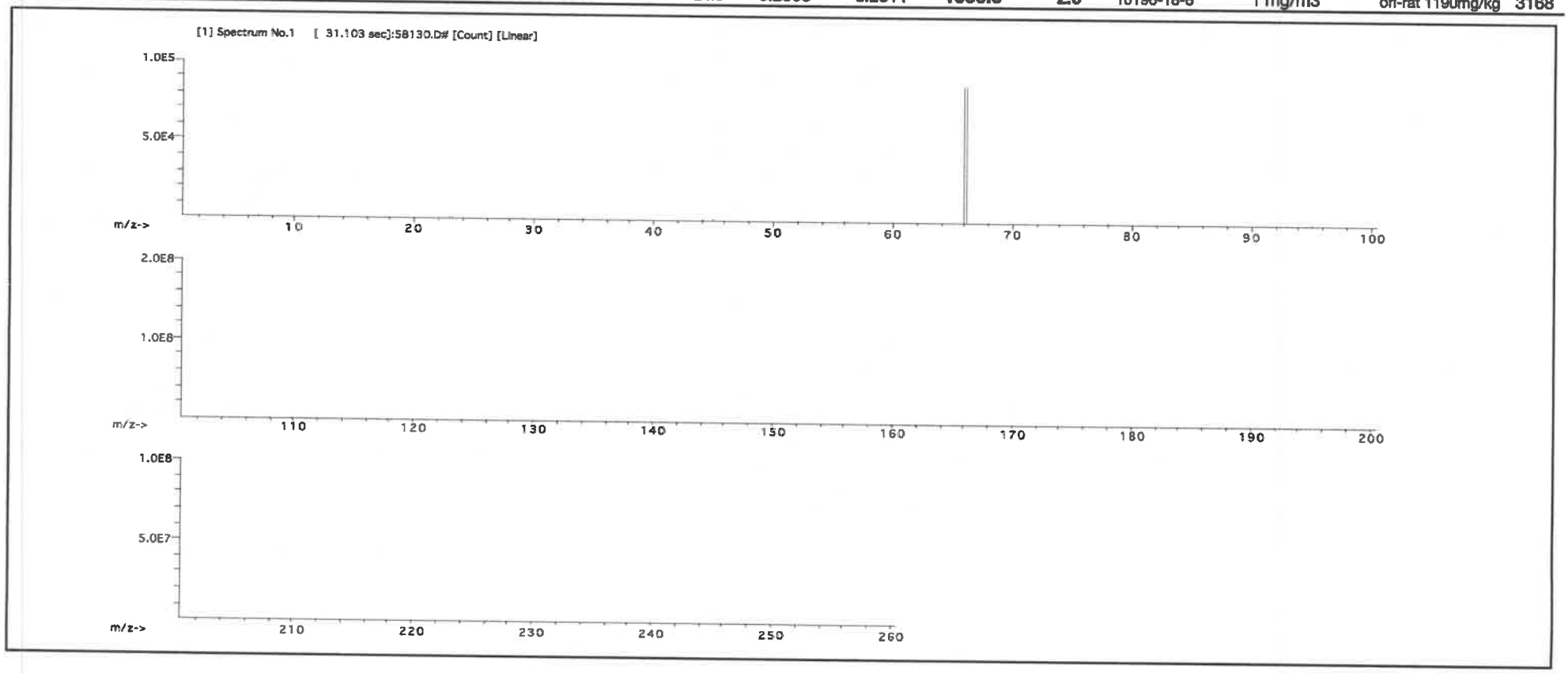
**Expiration Date:** 121727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24012496 | Nitric Acid | |
| | 2% | 40.0 (mL) | Nitric Acid |
| | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.1 | 0.10 | Flask Uncertainty |

Aleah O'Brady
Formulated By: Aleah O'Brady 121724

Pedro Rentas
Reviewed By: Pedro L. Rentas 121724

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zinc nitrate hexahydrate (Zn) | IN016 | ZNE032021A1 | 1000 | 99.999 | 0.10 | 24.3 | 8.2308 | 8.2311 | **1000.0** | **2.0** | 10196-18-6 | 1 mg/m3 | ori-rat 1190mg/kg | 3168 |



1588

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

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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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R : 4/20/21

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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

Safety Data Sheets Available Upon Request

### (A) *SAMPLE DESCRIPTION*

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

### (B) *BREAKAGE OR MISSING ITEMS*

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

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

### (C) *ANALYSIS OF SAMPLES*

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

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

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

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

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

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

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

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

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

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R: 01/03/24 M5806, M5807

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1591

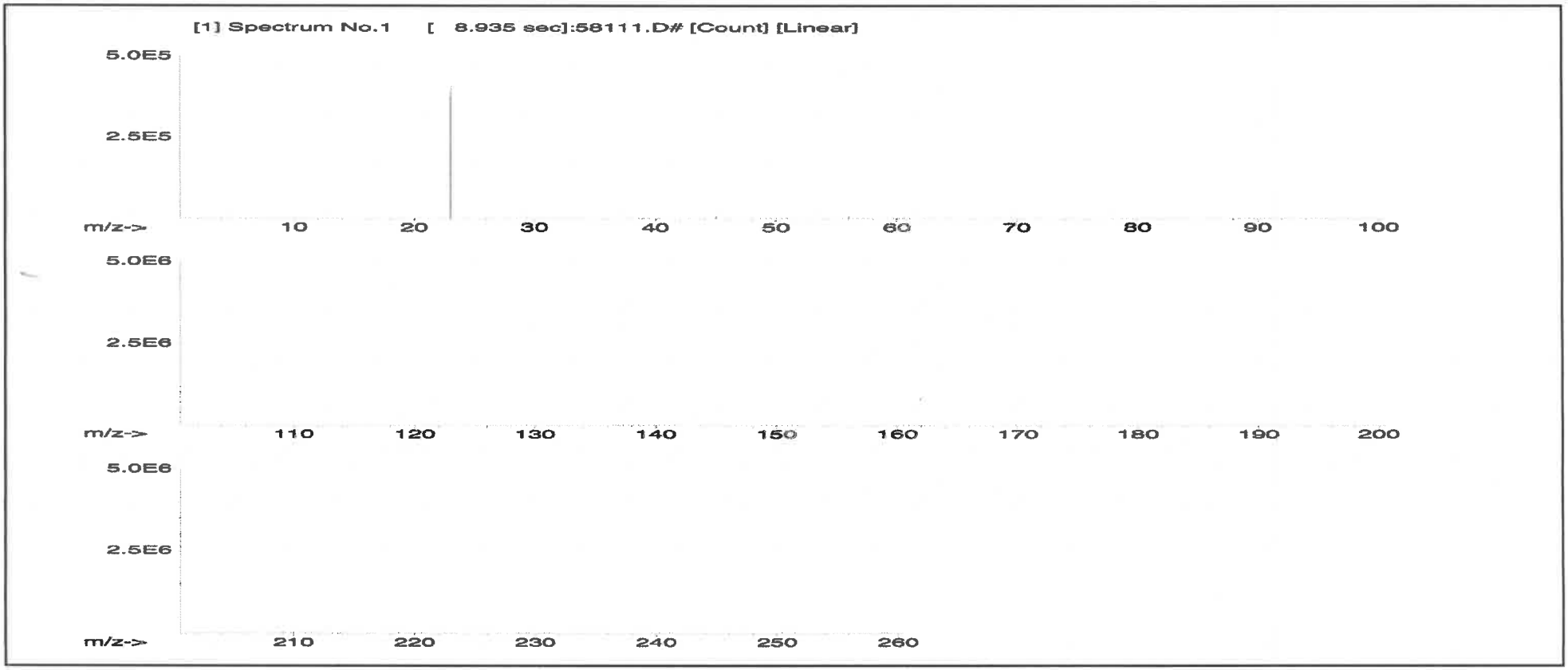
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **122223** | **Solvent:** | 24002546 | Nitric Acid | |
| **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 |



1592

**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.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

A: 4/11/22

# Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | 6020ISS |
| Lot Number: | S2-MEB709511 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 10 µg/mL ea: |

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| 6-Lithium, Li6 | 10.00 ± 0.03 µg/mL | Bismuth, Bi | 10.00 ± 0.05 µg/mL |
| Holmium, Ho | 10.00 ± 0.05 µg/mL | Indium, In | 10.00 ± 0.04 µg/mL |
| Rhodium, Rh | 10.00 ± 0.07 µg/mL | Scandium, Sc | 10.00 ± 0.04 µg/mL |
| Terbium, Tb | 10.00 ± 0.04 µg/mL | Yttrium, Y | 10.00 ± 0.04 µg/mL |

**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Bi | ICP Assay | 3106 | 180815 |
| Bi | Calculated | | See Sec. 4.2 |
| Ho | ICP Assay | 3123a | 090408 |
| Ho | EDTA | 928 | 928 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Li6 | Gravimetric | | See Sec. 4.2 |
| Rh | ICP Assay | 3144 | 070619 |
| Sc | ICP Assay | 3148a | 100701 |
| Sc | EDTA | 928 | 928 |
| Tb | ICP Assay | 3157a | 100518 |
| Tb | EDTA | 928 | 928 |
| Tb | Calculated | | See Sec. 4.2 |
| Y | ICP Assay | 3167a | 120314 |
| Y | EDTA | 928 | 928 |
| Y | Calculated | | See Sec. 4.2 |

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

**Characterization of CRM/RM by Two or More Methods**

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

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

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

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

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Lithium Li6 | 95.6 ± 0.3 |
| Lithium Li7 | 4.4 ± 0.1 |

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

September 03, 2021

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

**11.2 Lot Expiration Date**

**- September 03, 2026**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

## (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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

## (C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

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

**ICSA-0803, Inferferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this ICSAB solution by ICP-MS.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

ICSA: M5873

ICSB: M5874

| Element | CRQL | Part A (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) | Part A +Part B (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 20.0 | [100000] | | | [100000] | | |
| Sb | 2.0 | (1.5) | -2.5 | 5.5 | (22.0) | 18.0 | 26.0 |
| As | 1.0 | (0.1) | -1.9 | 2.1 | 19.0 | 16.2 | 21.9 |
| Ba | 10.0 | (1.2) | -18.8 | 21.2 | (22.0) | 2.0 | 42.0 |
| Be | 1.0 | (0) | -2.0 | 2.0 | 19.0 | 16.2 | 21.9 |
| Cd | 1.0 | (0.7) | -1.3 | 2.7 | 20.0 | 17.0 | 23.0 |
| Ca | 500 | [100000] | | | [100000] | | |
| C | | [200000] | | | [200000] | | |
| Cl | | [1000000] | | | [1000000] | | |
| Cr | 2.0 | (21.0) | 17.0 | 25.0 | 40.0 | 34.0 | 46.0 |
| Co | 1.0 | (1.0) | -1.0 | 3.0 | 20.0 | 17.0 | 23.0 |
| Cu | 2.0 | (8.0) | 4.0 | 12.0 | (25.0) | 21.0 | 29.0 |
| Fe | 200 | [100000] | | | [100000] | | |
| Pb | 1.0 | (4.0) | 2.0 | 6.0 | 25.0 | 21.3 | 28.8 |
| Mg | 500 | [100000] | | | [100000] | | |
| Mn | 1.0 | (7.0) | 5.0 | 9.0 | 27.0 | 23.0 | 31.1 |
| Mo | | [2000] | | | [2000] | | |
| Ni | 1.0 | (6.0) | 4.0 | 8.0 | 24.0 | 20.4 | 27.6 |
| P | | [100000] | | | [100000] | | |
| K | 500 | [100000] | | | [100000] | | |
| Se | 5.0 | (0.3) | -9.7 | 10.3 | (19.0) | 9.0 | 29.0 |
| Ag | 1.0 | (0) | -2.0 | 2.0 | 18.0 | 15.3 | 20.7 |
| Na | 500 | [100000] | | | [100000] | | |
| S | | [100000] | | | [100000] | | |
| Tl | 1.0 | (0) | -2.0 | 2.0 | 21.0 | 17.9 | 24.2 |
| Ti | | [2000] | | | [2000] | | |
| V | 5.0 | (0.5) | -9.5 | 10.5 | (19.0) | 9.0 | 29.0 |
| Zn | 5.0 | (11.0) | 1.0 | 21.0 | (29.0) | 19.0 | 39.0 |

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

## (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.

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

*Certified Reference Material CRM*

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

R: 01/03/24 M5802, M5803

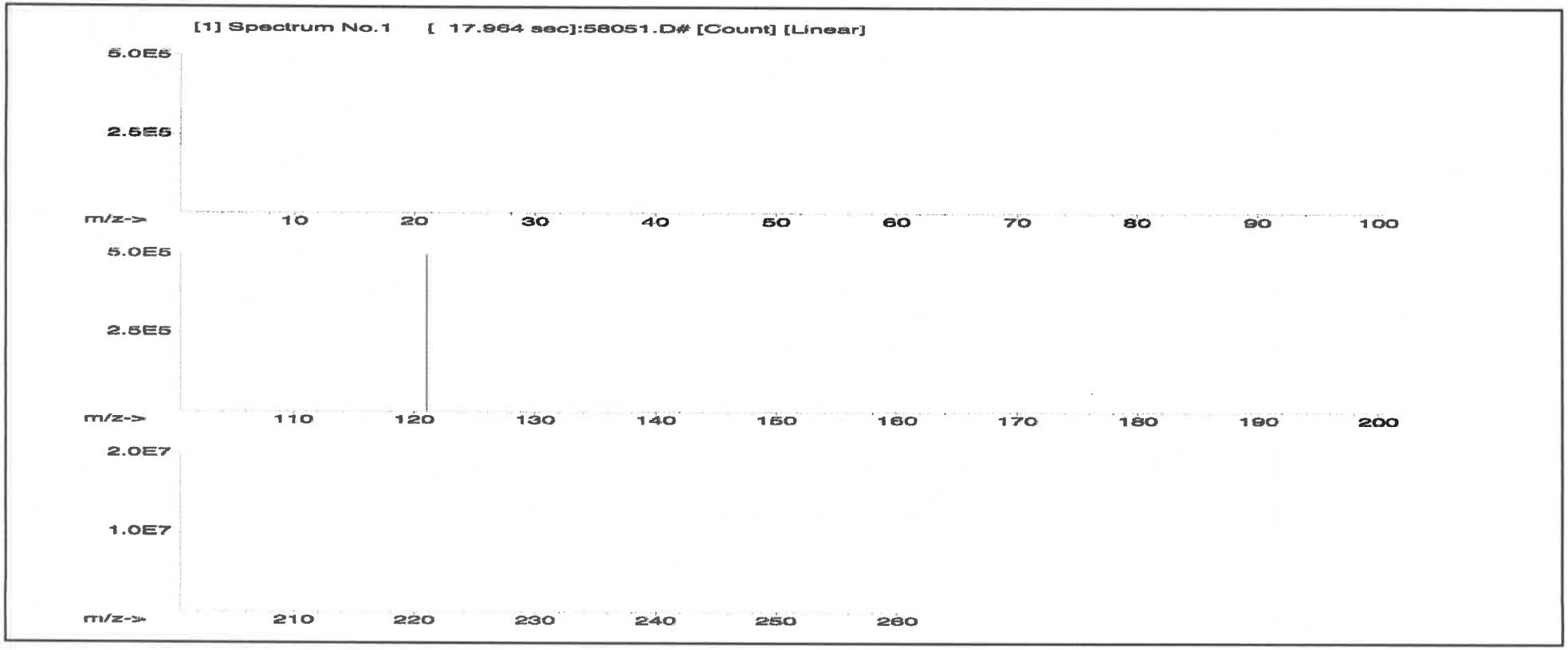
1601

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:**

* 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***

M6030

R: 8/5/24

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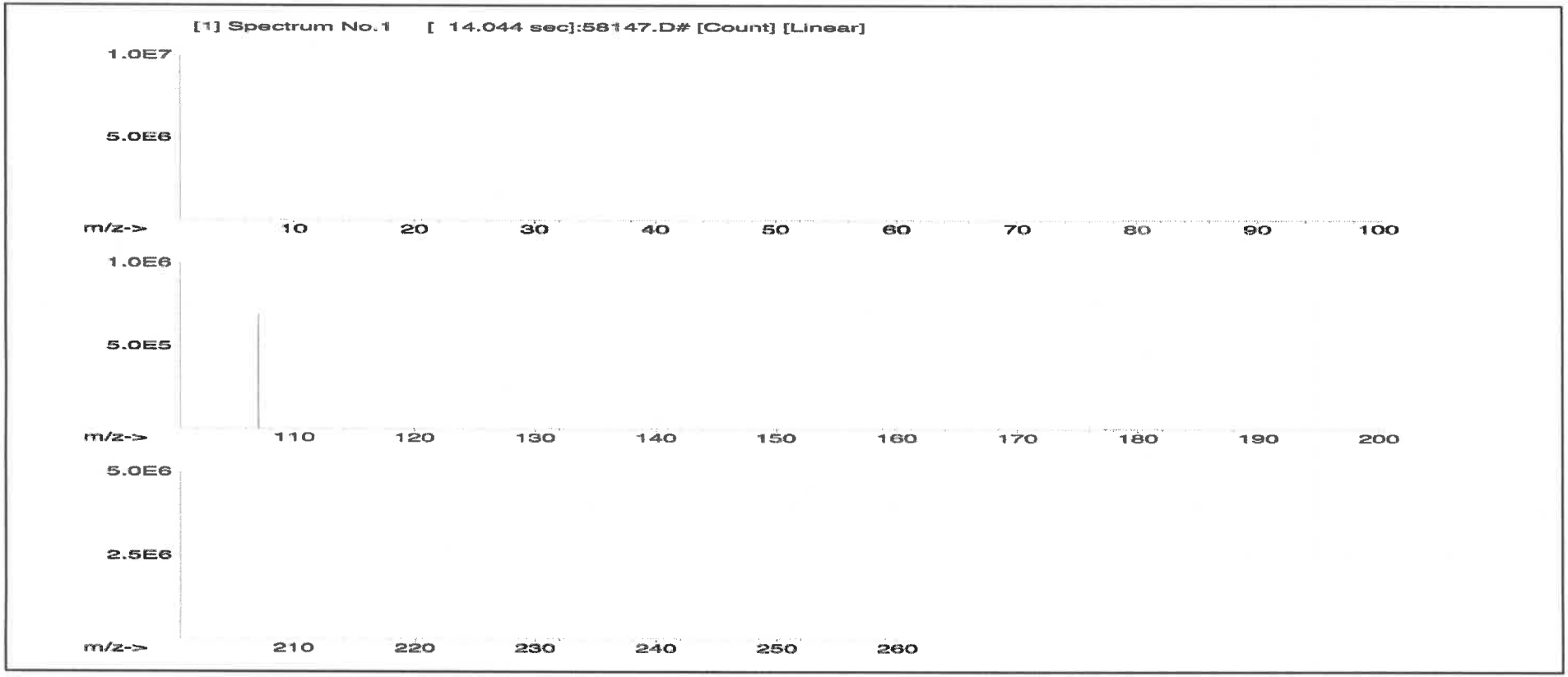
1603

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 |



1604

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

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

(T)= Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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***Certified Reference Material CRM***

R: 10/18/24

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1605

CERTIFIED WEIGHT REPORT:

MG146

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57051** | 24002546 | Nitric Acid | |
| **Lot Number:** | **071724** | | | |
| **Description:** | **Antimony (Sb)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071727 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.26 | 0.058 | Flask Uncertainty | |

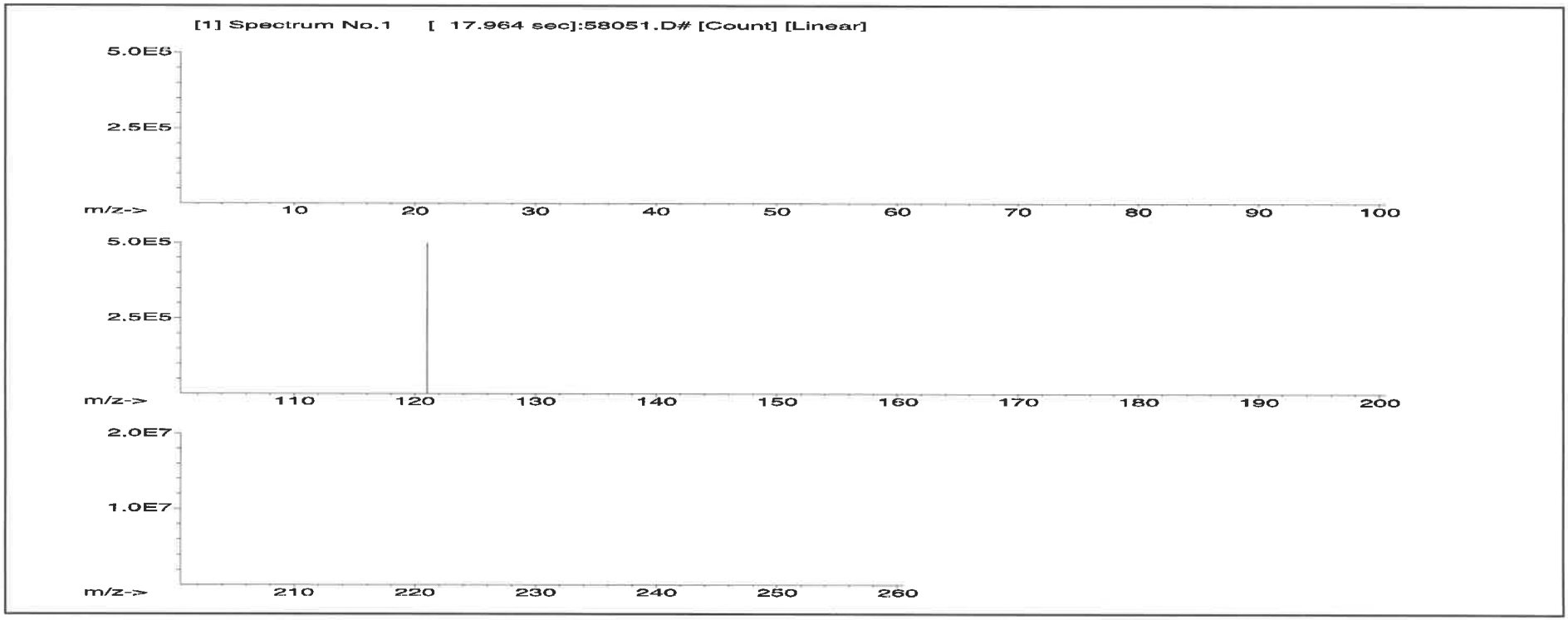
Giovanni Esposito

| Formulated By: | Giovanni Esposito | 071724 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 071724 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | **Final Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | **SDS Information** (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Antimony (Sb) | 58151 | 060324 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.4 | **1000.0** | **2.2** | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



**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.
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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™
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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**<br>ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985 |
| **Assay Method #2** | **1001 ± 3 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #3** | **1001 ± 2 µg/mL**<br>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

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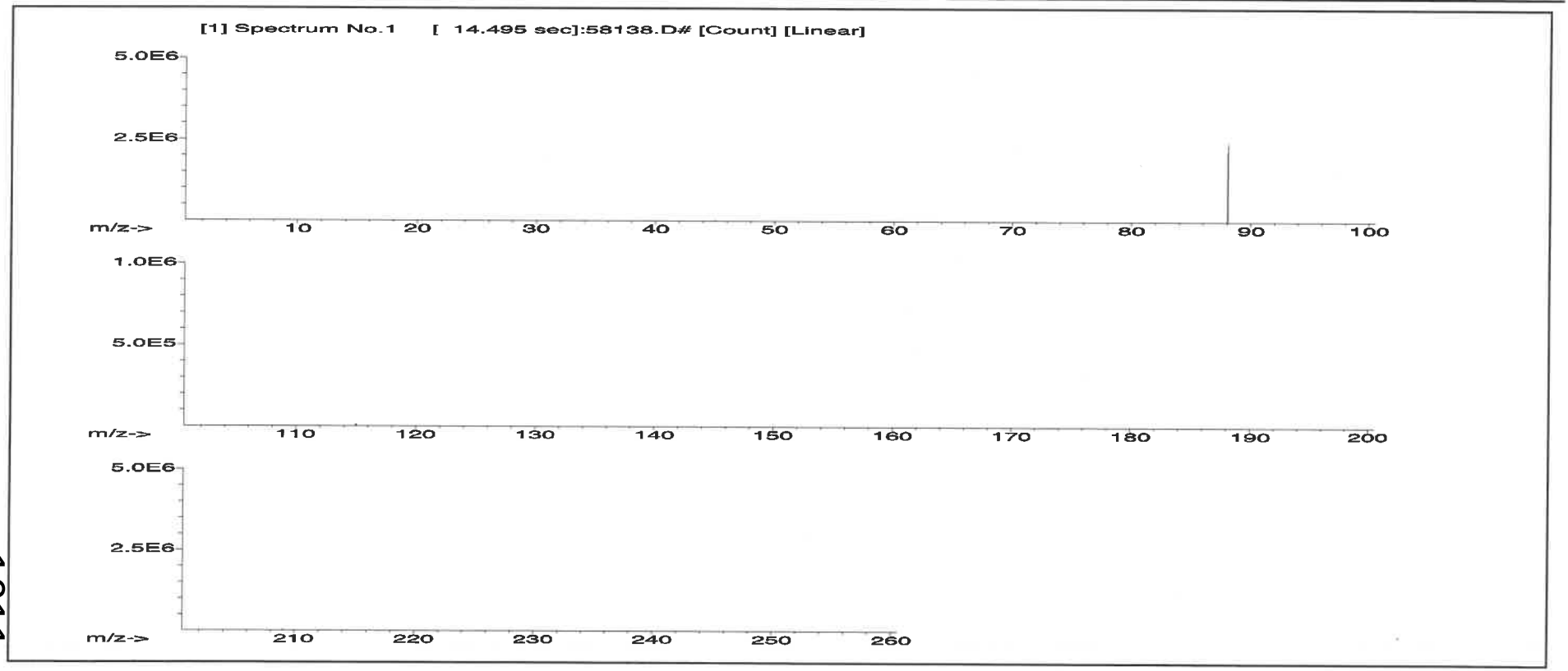
AR-1539 Certificate Number
https://Absolutestandards.com

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 |




1611

**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).

1612

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

***Certified Reference Material CRM***

M6023

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

R ! 8/5/24

1613

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 | | |

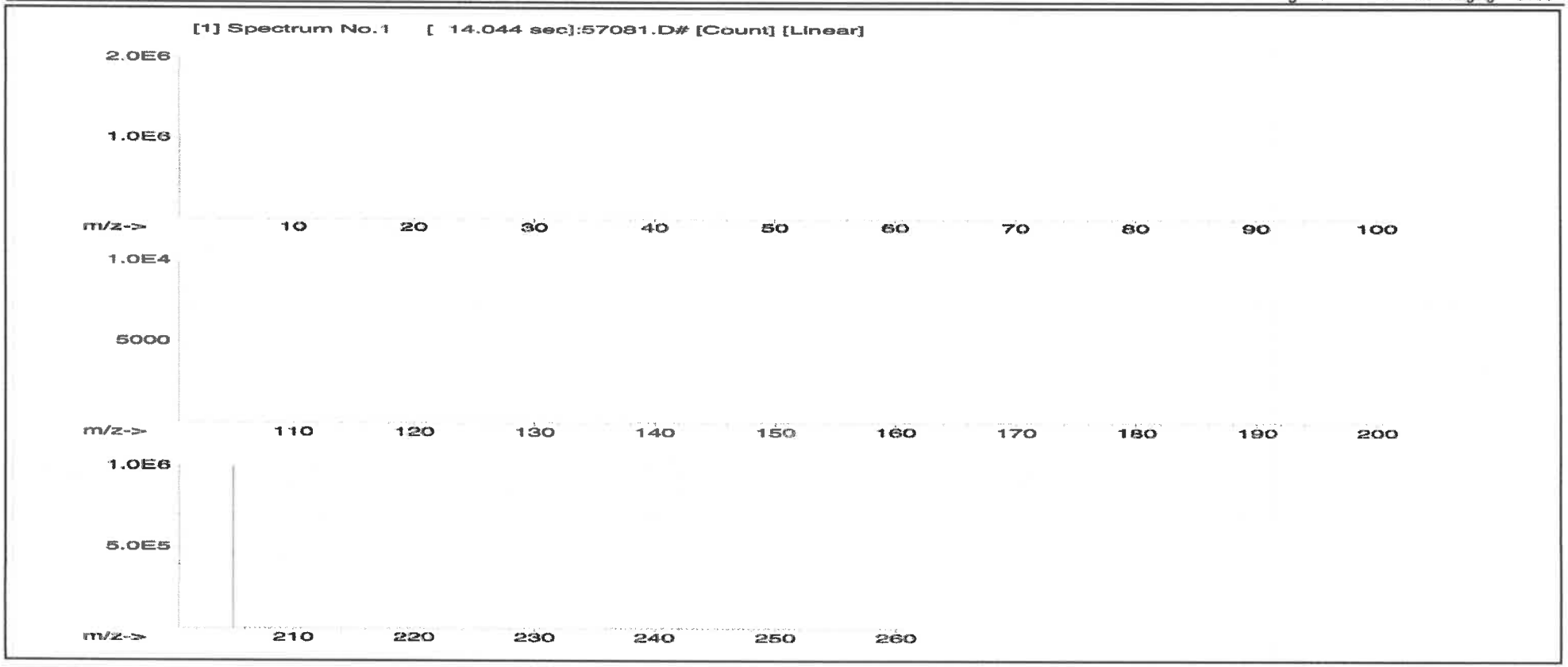
Aleah O'Brady

| | | |
|---|---|---|
| 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 |



1614

**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

1615

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 | |

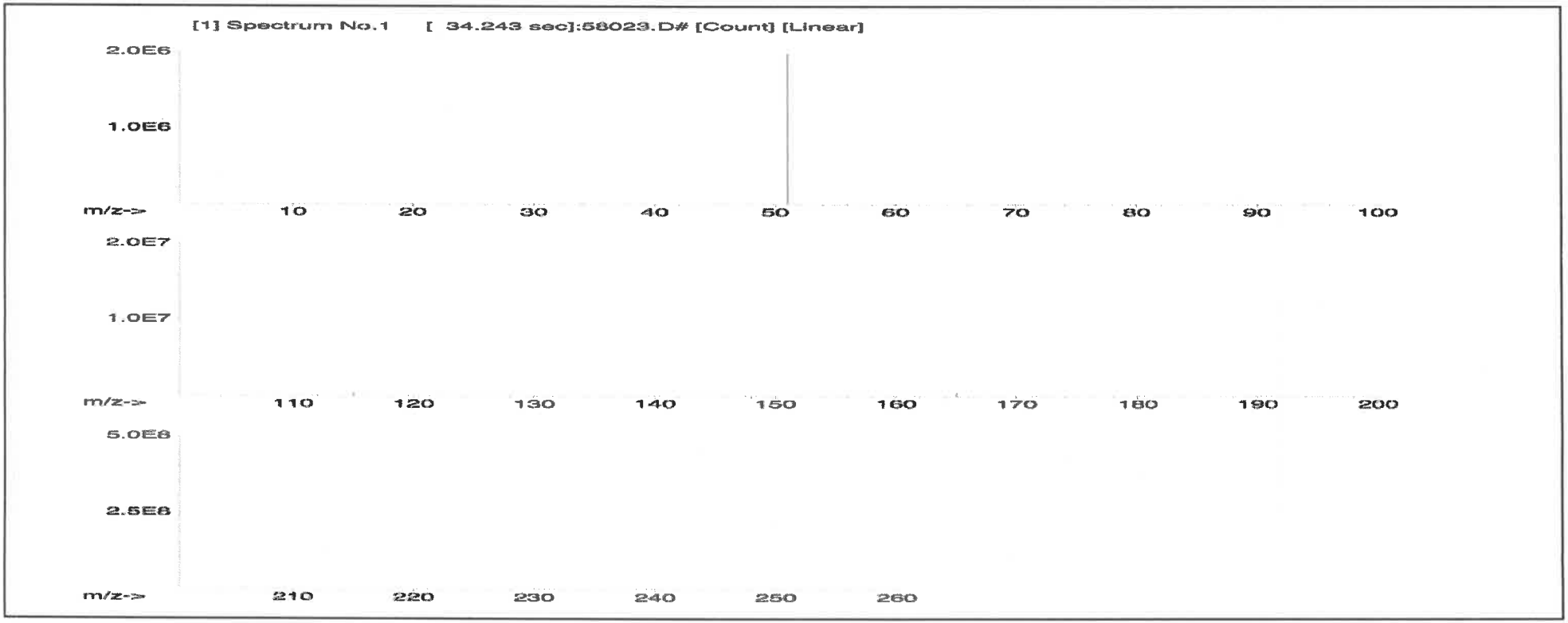
Aleah O'Brady

| 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 |



1616

**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).

JP 01/29/2025

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

PB166302

M200.8-Trace Elements-22

**SOP ID :** ~~M30508-Digestion-28~~, MSFAM01.1-Metals ICPMS-2

**SDG No :** YE8C9

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #5 2. N/A

**Start Digest Date:** 01/28/2025 **Time :** 13:05 **Temp :** 95 °C

**End Digest Date:** 01/28/2025 **Time :** 13:40 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. # 5

**Dig Technician Signature:** SLD.

**Supervisor Signature:**

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.00 | MP84118 |
| Spike Sol. B | 1.00 | MP84119 |
| 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 | 4.00 | MP84041 |
| 1.4 HCL SOLN | 10.00 | MP82128 |
| 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 #5 Cell #34 Temp: 95 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 01/28/25 14:20 | SLD. MCA. digestion. | metals lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB166302**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB166302BL | PBS302 | N/A | 1.00 | 500 | Colorless | Colorless | Fine | N/A | N/A | 1 |
| PB166302BS | LCS302 | N/A | 1.00 | 500 | Colorless | Colorless | Fine | N/A | MP84118 | 2 |
| Q1159-01 | YE8C9 | N/A | 1.22 | 500 | Brown | Yellow | Medium | N/A | N/A | 3 |
| Q1159-02 | YE8C9D | N/A | 1.17 | 500 | Brown | Yellow | Medium | N/A | N/A | 4 |
| Q1159-03 | YE8C9S | N/A | 1.18 | 500 | Brown | Yellow | Medium | N/A | MP84119 | 5 |
| Q1159-04 | YE8D1 | N/A | 1.11 | 500 | Brown | Yellow | Medium | N/A | N/A | 6 |
| Q1159-05 | YE8D3 | N/A | 1.15 | 500 | Black | Yellow | Medium | N/A | N/A | 7 |
| Q1159-06 | YE8E2 | N/A | 1.13 | 500 | Gray | Yellow | Medium | N/A | N/A | 8 |

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 # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE001 | TUNE | 02/06/25 11:25 | | Jaswal | OK |
| 2 | S00 | S0 | CAL1 | 02/06/25 12:08 | | Jaswal | OK |
| 3 | S02 | S02 | CAL3 | 02/06/25 12:12 | | Jaswal | OK |
| 4 | S03 | S03 | CAL4 | 02/06/25 12:15 | | Jaswal | OK |
| 5 | S04 | S04 | CAL5 | 02/06/25 12:18 | | Jaswal | OK |
| 6 | S05 | S05 | CAL6 | 02/06/25 12:21 | | Jaswal | OK |
| 7 | S06 | S06 | CAL7 | 02/06/25 12:24 | | Jaswal | OK |
| 8 | S07 | S07 | CAL8 | 02/06/25 12:27 | | Jaswal | OK |
| 9 | S08 | S08 | CAL9 | 02/06/25 12:29 | | Jaswal | OK |
| 10 | ICV001 | ICV001 | ICV | 02/06/25 12:45 | Inst. paused for Calibration review | Jaswal | OK |
| 11 | ICB001 | ICB001 | ICB | 02/06/25 12:50 | | Jaswal | OK |
| 12 | ICSA001 | ICSA001 | ICSA | 02/06/25 12:54 | | Jaswal | OK |
| 13 | ICSAB001 | ICSAB001 | ICSAB | 02/06/25 12:57 | | Jaswal | OK |
| 14 | CCV001 | CCV001 | CCV | 02/06/25 13:00 | | Jaswal | OK |
| 15 | CCB001 | CCB001 | CCB | 02/06/25 13:07 | Inst. paused for review | Jaswal | OK |
| 16 | Q1177-01A | MH2GW9A | PS | 02/06/25 13:10 | PS For Se-0.01ml mp84378 | Jaswal | OK |
| | | | | | | | |

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Fax : 908 789 8922

**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Q1178-01A | MH2GX0A | PS | 02/06/25 13:14 | PS For Ba-0.018 ml m6032, Cd-0.056 ml mp84379, Ni-0.0031ml m5748, Se-0.01ml mp84378 | Jaswal | OK |
| 18 | PB166302BL | PBS302 | MB | 02/06/25 13:22 | | Jaswal | OK |
| 19 | PB166302BS | LCS302 | LCS | 02/06/25 13:26 | | Jaswal | OK |
| 20 | Q1159-01 | YE8C9 | SAM | 02/06/25 13:29 | Sr High in MS | Jaswal | Dilution |
| 21 | Q1159-02 | YE8C9D | DUP | 02/06/25 13:32 | Sr High in MS | Jaswal | Dilution |
| 22 | Q1159-01L | YE8C9L | SD | 02/06/25 13:35 | Sr High in MS | Jaswal | Dilution |
| 23 | Q1159-03 | YE8C9S | MS | 02/06/25 13:39 | Sr High , MS Fail in Se Below RI) | Jaswal | Dilution |
| 24 | PB166317BL | PBW317 | MB | 02/06/25 13:42 | Not Use | Jaswal | Not Ok |
| 25 | PB166317BS | LCS317 | LCS | 02/06/25 13:45 | Not Use | Jaswal | Not Ok |
| 26 | Q1186-01 | ME2948 | SAM | 02/06/25 13:48 | Not Use | Jaswal | Not Ok |
| 27 | Q1186-02 | ME2949 | SAM | 02/06/25 13:52 | | Jaswal | OK |
| 28 | Q1186-03 | ME2955 | SAM | 02/06/25 13:55 | | Jaswal | OK |
| 29 | Q1186-04 | ME2956 | SAM | 02/06/25 13:58 | | Jaswal | OK |
| 30 | Q1186-05 | ME2957 | SAM | 02/06/25 14:01 | | Jaswal | OK |
| 31 | Q1186-06 | ME2960 | SAM | 02/06/25 14:05 | | Jaswal | OK |
| 32 | Q1186-07 | ME2961 | SAM | 02/06/25 14:08 | | Jaswal | OK |
| 33 | Q1186-08 | ME2962 | SAM | 02/06/25 14:11 | | Jaswal | OK |
| 34 | Q1186-09 | ME2959 | SAM | 02/06/25 14:14 | | 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 # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 35 | Q1186-10 | ME2959D | DUP | 02/06/25 14:18 | | Jaswal | OK |
| 36 | Q1186-09L | ME2959L | SD | 02/06/25 14:21 | | Jaswal | OK |
| 37 | Q1186-11 | ME2959S | MS | 02/06/25 14:24 | | Jaswal | OK |
| 38 | Q1186-12 | ME2963 | SAM | 02/06/25 14:28 | | Jaswal | OK |
| 39 | Q1186-13 | ME2967 | SAM | 02/06/25 14:31 | | Jaswal | OK |
| 40 | Q1186-14 | ME2965 | SAM | 02/06/25 14:34 | | Jaswal | OK |
| 41 | CCV002 | CCV002 | CCV | 02/06/25 14:37 | | Jaswal | OK |
| 42 | CCB002 | CCB002 | CCB | 02/06/25 14:40 | | Jaswal | OK |
| 43 | Q1186-15 | ME2966 | SAM | 02/06/25 14:44 | | Jaswal | OK |
| 44 | Q1186-16 | ME2958 | SAM | 02/06/25 14:47 | | Jaswal | OK |
| 45 | Q1186-17 | ME2968 | SAM | 02/06/25 14:50 | | Jaswal | OK |
| 46 | Q1186-18 | ME2974 | SAM | 02/06/25 14:53 | | Jaswal | OK |
| 47 | Q1186-19 | ME2977 | SAM | 02/06/25 14:57 | | Jaswal | OK |
| 48 | Q1186-20 | ME2980 | SAM | 02/06/25 15:00 | | Jaswal | OK |
| 49 | Q1186-09RE | ME2959 | SAM | 02/06/25 15:03 | Not Use | Jaswal | Not Ok |
| 50 | Q1186-10RE | ME2959D | DUP | 02/06/25 15:06 | Not Use | Jaswal | Not Ok |
| 51 | Q1186-09LRE | ME2959L | SD | 02/06/25 15:10 | Not Use | Jaswal | Not Ok |
| 52 | Q1186-11RE | ME2959S | MS | 02/06/25 15:13 | Not Use | Jaswal | Not Ok |
| 53 | PB166435BL | PBW435 | MB | 02/06/25 15:16 | | Jaswal | OK |
| 54 | PB166435BS | LCS435 | LCS | 02/06/25 15:24 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | Q1200-01 | ME2964 | SAM | 02/06/25 15:28 | | Jaswal | OK |
| 56 | Q1200-02 | ME2964D | DUP | 02/06/25 15:32 | | Jaswal | OK |
| 57 | Q1200-01L | ME2964L | SD | 02/06/25 15:35 | | Jaswal | OK |
| 58 | Q1200-03 | ME2964S | MS | 02/06/25 15:38 | | Jaswal | OK |
| 59 | Q1200-04 | ME2981 | SAM | 02/06/25 15:41 | | Jaswal | OK |
| 60 | Q1200-05 | ME2982 | SAM | 02/06/25 15:44 | | Jaswal | OK |
| 61 | Q1200-06 | ME2983 | SAM | 02/06/25 15:48 | | Jaswal | OK |
| 62 | Q1200-07 | ME2984 | SAM | 02/06/25 15:51 | | Jaswal | OK |
| 63 | Q1200-08 | ME2985 | SAM | 02/06/25 15:54 | | Jaswal | OK |
| 64 | Q1200-09 | ME2986 | SAM | 02/06/25 15:57 | | Jaswal | OK |
| 65 | Q1200-10 | ME2987 | SAM | 02/06/25 16:01 | | Jaswal | OK |
| 66 | Q1200-11 | ME2988 | SAM | 02/06/25 16:04 | | Jaswal | OK |
| 67 | Q1200-12 | ME2992 | SAM | 02/06/25 16:07 | | Jaswal | OK |
| 68 | Q1200-13 | ME2994 | SAM | 02/06/25 16:10 | | Jaswal | OK |
| 69 | Q1200-14 | ME2995 | SAM | 02/06/25 16:13 | | Jaswal | OK |
| 70 | CCV003 | CCV003 | CCV | 02/06/25 16:17 | | Jaswal | OK |
| 71 | CCB003 | CCB003 | CCB | 02/06/25 16:19 | | Jaswal | OK |
| 72 | Q1200-15 | ME2999 | SAM | 02/06/25 16:23 | | Jaswal | OK |
| 73 | Q1200-16 | ME2997 | SAM | 02/06/25 16:26 | | Jaswal | OK |
| 74 | Q1200-17 | ME2998 | SAM | 02/06/25 16:29 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 75 | Q1200-18 | ME29A0 | SAM | 02/06/25 16:33 | | Jaswal | OK |
| 76 | Q1200-19 | ME29A1 | SAM | 02/06/25 16:36 | | Jaswal | OK |
| 77 | Q1200-20 | ME29A2 | SAM | 02/06/25 16:39 | | Jaswal | OK |
| 78 | Q1200-21 | ME29A3 | SAM | 02/06/25 16:42 | | Jaswal | OK |
| 79 | WATER-01 | WATER-01 | SAM | 02/06/25 16:46 | | Jaswal | OK |
| 80 | WATER-02RE | WATER-02RE | SAM | 02/06/25 16:49 | Not Use | Jaswal | Not Ok |
| 81 | WATER-02 | WATER-02 | SAM | 02/06/25 16:52 | | Jaswal | OK |
| 82 | CCV004 | CCV004 | CCV | 02/06/25 16:55 | | Jaswal | OK |
| 83 | CCB004 | CCB004 | CCB | 02/06/25 17:02 | Inst. paused for review | Jaswal | OK |
| 84 | PB166532BL | PBS532 | MB | 02/06/25 17:12 | Not Use | Jaswal | Not Ok |
| 85 | PB166532BS | LCS532 | LCS | 02/06/25 17:15 | Not Use | Jaswal | Not Ok |
| 86 | Q1271-03 | 3189-3196 | SAM | 02/06/25 17:18 | Not Use | Jaswal | Not Ok |
| 87 | Q1271-03DUP | 3189-3196 | DUP | 02/06/25 17:21 | Not Use | Jaswal | Not Ok |
| 88 | Q1271-03L | 3189-3196L | SD | 02/06/25 17:25 | Not Use | Jaswal | Not Ok |
| 89 | Q1271-03MS | 3189-3196 | MS | 02/06/25 17:28 | Not Use | Jaswal | Not Ok |
| 90 | Q1271-03MSD | 3189-3196 | MSD | 02/06/25 17:31 | Not Use | Jaswal | Not Ok |
| 91 | Q1271-03A | 3189-3196A | PS | 02/06/25 17:34 | Not Use | Jaswal | Not Ok |
| 92 | CCV005 | CCV005 | CCV | 02/06/25 17:39 | | Jaswal | OK |
| 93 | CCB005 | CCB005 | CCB | 02/06/25 17:42 | | Jaswal | OK |
| 94 | PB166282BL | PBW282 | MB | 02/06/25 17:45 | Not Use | Jaswal | Not Ok |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 95 | PB166282BS | LCS282 | LCS | 02/06/25 17:49 | Not Use | Jaswal | Not Ok |
| 96 | Q1193-01 | TAPIAL3-MW04S-012 | SAM | 02/06/25 17:53 | Not Use | Jaswal | Not Ok |
| 97 | Q1193-02 | TAPIAL2-MW01-0124 | SAM | 02/06/25 17:56 | Not Use | Jaswal | Not Ok |
| 98 | Q1193-02DUP | TAPIAL2-MW01-0124 | DUP | 02/06/25 17:59 | Not Use | Jaswal | Not Ok |
| 99 | Q1193-02L | TAPIAL2-MW01-0124 | SD | 02/06/25 18:02 | Not Use | Jaswal | Not Ok |
| 100 | Q1193-02MS | TAPIAL2-MW01-0124 | MS | 02/06/25 18:06 | Not Use | Jaswal | Not Ok |
| 101 | Q1193-02MSD | TAPIAL2-MW01-0124 | MSD | 02/06/25 18:08 | Not Use | Jaswal | Not Ok |
| 102 | Q1193-02A | TAPIAL2-MW01-0124 | PS | 02/06/25 18:11 | Not Use | Jaswal | Not Ok |
| 103 | CCV006 | CCV006 | CCV | 02/06/25 18:14 | | Jaswal | OK |
| 104 | CCB006 | CCB006 | CCB | 02/06/25 18:18 | | Jaswal | OK |
| 105 | PB166378BL | PBW378 | MB | 02/06/25 18:21 | Not Use | Jaswal | Not Ok |
| 106 | PB166378BS | LCS378 | LCS | 02/06/25 18:25 | Not Use | Jaswal | Not Ok |
| 107 | Q1201-01 | TAPHHA-MW12-0127 | SAM | 02/06/25 18:28 | Not Use | Jaswal | Not Ok |
| 108 | Q1211-01 | TAPHHA-MW01-0128 | SAM | 02/06/25 18:31 | Not Use | Jaswal | Not Ok |
| 109 | Q1211-02 | TAPIAL2-MW03-0128 | SAM | 02/06/25 18:34 | Not Use | Jaswal | Not Ok |
| 110 | Q1211-02DUP | TAPIAL2-MW03-0128 | DUP | 02/06/25 18:37 | Not Use | Jaswal | Not Ok |
| 111 | Q1211-02L | TAPIAL2-MW03-0128 | SD | 02/06/25 18:40 | Not Use | Jaswal | Not Ok |
| 112 | Q1211-02MS | TAPIAL2-MW03-0128 | MS | 02/06/25 18:44 | Not Use | Jaswal | Not Ok |
| 113 | Q1211-02MSD | TAPIAL2-MW03-0128 | MSD | 02/06/25 18:46 | Not Use | Jaswal | Not Ok |
| 114 | Q1211-02A | TAPIAL2-MW03-0128 | PS | 02/06/25 18:49 | Not Use | Jaswal | Not Ok |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 2/7/2025 9:21:46 AM |
| Supervise By | Mohan Bera | Supervise On | 2/7/2025 11:31:39 AM |

| 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 | MP84378 |
| LCS Standard | |
| Chk Standard | MP84057,MP84056 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 115 | CCV007 | CCV007 | CCV | 02/06/25 18:52 | | Jaswal | OK |
| 116 | CCB007 | CCB007 | CCB | 02/06/25 18:58 | Inst. paused for review | Jaswal | OK |
| 117 | Q1159-01A | YE8C9A | PS | 02/06/25 19:55 | PS For Se(0.01ML MP84378) | Jaswal | OK |
| 118 | Q1186-09A | ME2959A | PS | 02/06/25 19:58 | PS For Se(0.01ML MP84378-10ML SAMPLE) | Jaswal | OK |
| 119 | Q1200-01A | ME2964A | PS | 02/06/25 20:01 | PS For Se(0.01ML MP84378-10ML SAMPLE) | Jaswal | OK |
| 120 | PB166570BL | PBW570 | MB | 02/06/25 20:04 | | Jaswal | OK |
| 121 | PB166570BS | LCS570 | LCS | 02/06/25 20:08 | | Jaswal | OK |
| 122 | Q1135-09 | YE8H7 | SAM | 02/06/25 20:11 | Not Use | Jaswal | Not Ok |
| 123 | Q1223-17 | A6310 | SAM | 02/06/25 20:14 | | Jaswal | OK |
| 124 | CCV008 | CCV008 | CCV | 02/06/25 20:22 | | Jaswal | OK |
| 125 | CCB008 | CCB008 | CCB | 02/06/25 20:25 | | Jaswal | OK |

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## Daily Analysis Runlog For Sequence/QCBatch ID # LB134674

| | | | |
|---|---|---|---|
| Review By | Janvi Patel | Review On | 2/12/2025 11:01:11 AM |
| Supervise By | Mohan Bera | Supervise On | 2/12/2025 11:10:40 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415 |
| ICV Standard | MP84473 |
| CCV Standard | MP84438 |
| ICSA Standard | MP84440,MP84441 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84444,MP84443 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE005 | TUNE | 02/11/25 11:22 | | Jaswal | OK |
| 2 | S00 | S0 | CAL1 | 02/11/25 12:05 | | Jaswal | OK |
| 3 | S02 | S02 | CAL3 | 02/11/25 12:08 | | Jaswal | OK |
| 4 | S03 | S03 | CAL4 | 02/11/25 12:11 | | Jaswal | OK |
| 5 | S04 | S04 | CAL5 | 02/11/25 12:15 | | Jaswal | OK |
| 6 | S05 | S05 | CAL6 | 02/11/25 12:18 | | Jaswal | OK |
| 7 | S06 | S06 | CAL7 | 02/11/25 12:20 | | Jaswal | OK |
| 8 | S07 | S07 | CAL8 | 02/11/25 12:23 | | Jaswal | OK |
| 9 | S08 | S08 | CAL9 | 02/11/25 12:26 | | Jaswal | OK |
| 10 | ICV005 | ICV005 | ICV | 02/11/25 13:29 | Inst. paused for Calibration review | Jaswal | OK |
| 11 | ICB005 | ICB005 | ICB | 02/11/25 13:33 | | Jaswal | OK |
| 12 | ICSA005 | ICSA005 | ICSA | 02/11/25 13:40 | Inst. paused for review | Jaswal | OK |
| 13 | ICSAB005 | ICSAB005 | ICSAB | 02/11/25 13:44 | | Jaswal | OK |
| 14 | CCV021 | CCV021 | CCV | 02/11/25 13:47 | | Jaswal | OK |
| 15 | CCB021 | CCB021 | CCB | 02/11/25 13:50 | | Jaswal | OK |
| 16 | Q1159-01DL | YE8C9 | SAM | 02/11/25 13:53 | Sr high in MS | Jaswal | Not Ok |
| 17 | Q1159-02DL | YE8C9D | DUP | 02/11/25 13:57 | Sr high in MS | Jaswal | Not Ok |
| 18 | Q1159-01LDL | YE8C9L | SD | 02/11/25 14:00 | Sr high in MS | Jaswal | Not Ok |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134674

| | | | |
|---|---|---|---|
| Review By | Janvi Patel | Review On | 2/12/2025 11:01:11 AM |
| Supervise By | Mohan Bera | Supervise On | 2/12/2025 11:10:40 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415 |
| ICV Standard | MP84473 |
| CCV Standard | MP84438 |
| ICSA Standard | MP84440,MP84441 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84444,MP84443 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1159-03DL | YE8C9S | MS | 02/11/25 14:03 | 2x for Sr still Sr high | Jaswal | Not Ok |
| 20 | PB166570BL | PBW570 | MB | 02/11/25 14:15 | | Jaswal | OK |
| 21 | PB166570BS | LCS570 | LCS | 02/11/25 14:18 | | Jaswal | OK |
| 22 | Q1135-09 | YE8H7 | SAM | 02/11/25 14:22 | | Jaswal | OK |
| 23 | PB166317BL | PBW317 | MB | 02/11/25 14:25 | | Jaswal | OK |
| 24 | PB166317BS | LCS317 | LCS | 02/11/25 14:29 | | Jaswal | OK |
| 25 | Q1186-01 | ME2948 | SAM | 02/11/25 14:32 | | Jaswal | OK |
| 26 | Q1159-01DL2 | YE8C9 | SAM | 02/11/25 14:35 | 4x For Sr | Jaswal | Confirms |
| 27 | Q1159-02DL2 | YE8C9D | DUP | 02/11/25 14:38 | 4x For Sr | Jaswal | Confirms |
| 28 | Q1159-01LDL2 | YE8C9L | SD | 02/11/25 14:42 | 20x For Sr | Jaswal | Confirms |
| 29 | Q1159-03DL2 | YE8C9S | MS | 02/11/25 14:45 | 4x For Sr | Jaswal | Confirms |
| 30 | CCV022 | CCV022 | CCV | 02/11/25 14:50 | | Jaswal | OK |
| 31 | CCB022 | CCB022 | CCB | 02/11/25 14:53 | | Jaswal | OK |
| 32 | Q1204-01A | ME2975A | PS | 02/11/25 15:21 | Se 0.1ml of mp84474 | Jaswal | OK |
| 33 | Q1245-09A | A6335A | PS | 02/11/25 15:25 | Se 0.1ml of mp84474 | Jaswal | OK |
| 34 | PB166636BL | PBW636 | MB | 02/11/25 15:28 | | Jaswal | OK |
| 35 | PB166636BS | LCS636 | LCS | 02/11/25 15:31 | | Jaswal | OK |
| 36 | Q1255-01 | MDCZM3 | SAM | 02/11/25 15:41 | | Jaswal | OK |
| 37 | Q1255-02 | MDCZP0 | SAM | 02/11/25 15:45 | | Jaswal | OK |
| 38 | Q1255-03 | MDCZP1 | SAM | 02/11/25 15:48 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134674

| | | | |
|---|---|---|---|
| Review By | Janvi Patel | Review On | 2/12/2025 11:01:11 AM |
| Supervise By | Mohan Bera | Supervise On | 2/12/2025 11:10:40 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415 |
| ICV Standard | MP84473 |
| CCV Standard | MP84438 |
| ICSA Standard | MP84440,MP84441 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84444,MP84443 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q1255-04 | MDCZP5 | SAM | 02/11/25 15:51 | | Jaswal | OK |
| 40 | Q1255-05 | MDCZM4 | SAM | 02/11/25 15:54 | | Jaswal | OK |
| 41 | Q1255-06 | MDCZN3 | SAM | 02/11/25 15:58 | | Jaswal | OK |
| 42 | Q1255-07 | MDCZP2 | SAM | 02/11/25 16:01 | | Jaswal | OK |
| 43 | Q1255-08 | MDCZN8 | SAM | 02/11/25 16:04 | | Jaswal | OK |
| 44 | Q1255-09 | MDCZN8D | DUP | 02/11/25 16:08 | | Jaswal | OK |
| 45 | Q1255-08L | MDCZN8L | SD | 02/11/25 16:11 | | Jaswal | OK |
| 46 | Q1255-10 | MDCZN8S | MS | 02/11/25 16:14 | MS fail for Se(Below RL) | Jaswal | OK |
| 47 | Q1255-11 | MDCZL6 | SAM | 02/11/25 16:17 | | Jaswal | OK |
| 48 | CCV023 | CCV023 | CCV | 02/11/25 16:21 | | Jaswal | OK |
| 49 | CCB023 | CCB023 | CCB | 02/11/25 16:24 | | Jaswal | OK |
| 50 | Q1255-12 | MDCZL9 | SAM | 02/11/25 16:32 | | Jaswal | OK |
| 51 | Q1255-13 | MDCZN9 | SAM | 02/11/25 16:36 | | Jaswal | OK |
| 52 | Q1255-14 | MDCZN2 | SAM | 02/11/25 16:39 | | Jaswal | OK |
| 53 | Q1255-15 | MDCZN7 | SAM | 02/11/25 16:42 | | Jaswal | OK |
| 54 | Q1255-16 | MDCZP4 | SAM | 02/11/25 16:46 | | Jaswal | OK |
| 55 | CCV024 | CCV024 | CCV | 02/11/25 16:49 | | Jaswal | OK |
| 56 | CCB024 | CCB024 | CCB | 02/11/25 16:52 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134694

| | | | |
|---|---|---|---|
| Review By | Janvi Patel | Review On | 2/12/2025 6:00:31 PM |
| Supervise By | Kareem Khairalla | Supervise On | 2/12/2025 6:07:41 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415 |
| ICV Standard | MP84473 |
| CCV Standard | MP84438 |
| ICSA Standard | MP84440,MP84441 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84444,MP84443 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE006 | TUNE | 02/12/25 13:01 | | Jaswal | OK |
| 2 | S00 | S0 | CAL1 | 02/12/25 13:30 | | Jaswal | OK |
| 3 | S02 | S02 | CAL3 | 02/12/25 13:34 | | Jaswal | OK |
| 4 | S03 | S03 | CAL4 | 02/12/25 13:37 | | Jaswal | OK |
| 5 | S04 | S04 | CAL5 | 02/12/25 13:40 | | Jaswal | OK |
| 6 | S05 | S05 | CAL6 | 02/12/25 13:43 | | Jaswal | OK |
| 7 | S06 | S06 | CAL7 | 02/12/25 13:46 | | Jaswal | OK |
| 8 | S07 | S07 | CAL8 | 02/12/25 13:49 | | Jaswal | OK |
| 9 | S08 | S08 | CAL9 | 02/12/25 13:52 | | Jaswal | OK |
| 10 | ICV006 | ICV006 | ICV | 02/12/25 15:00 | Inst. paused for calibration review | Jaswal | OK |
| 11 | ICB006 | ICB006 | ICB | 02/12/25 15:03 | | Jaswal | OK |
| 12 | ICSA006 | ICSA006 | ICSA | 02/12/25 15:06 | | Jaswal | OK |
| 13 | ICSAB006 | ICSAB006 | ICSAB | 02/12/25 15:29 | Inst. paused for review | Jaswal | OK |
| 14 | CCV025 | CCV025 | CCV | 02/12/25 15:32 | | Jaswal | OK |
| 15 | CCB025 | CCB025 | CCB | 02/12/25 15:35 | | Jaswal | OK |
| 16 | Q1159-04 | YE8D1 | SAM | 02/12/25 15:38 | | Jaswal | OK |
| 17 | Q1159-05 | YE8D3 | SAM | 02/12/25 15:41 | | Jaswal | OK |
| 18 | Q1159-06 | YE8E2 | SAM | 02/12/25 15:45 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134694

| | | | |
|---|---|---|---|
| Review By | Janvi Patel | Review On | 2/12/2025 6:00:31 PM |
| Supervise By | Kareem Khairalla | Supervise On | 2/12/2025 6:07:41 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415 |
| ICV Standard | MP84473 |
| CCV Standard | MP84438 |
| ICSA Standard | MP84440,MP84441 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84444,MP84443 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1255-07A | MDCZP2A | PS | 02/12/25 15:48 | Se 0.1ml of mp84474 | Jaswal | OK |
| 20 | CCV026 | CCV026 | CCV | 02/12/25 16:22 | | Jaswal | OK |
| 21 | CCB026 | CCB026 | CCB | 02/12/25 16:33 | Inst. paused for review | Jaswal | OK |

EPA SAMPLE NO.

YE8C9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-01

% Solids: 86.4 Date Received: 01/22/2025

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.14 | | 02/10/2025 | 1708 |

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

Comments:

EPA SAMPLE NO.

YE8D1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-04

% Solids: 93.3 Date Received: 01/23/2025

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.25 | | 02/10/2025 | 1715 |

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

Comments:

EPA SAMPLE NO.

YE8D3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-05

% Solids: 91.9 Date Received: 01/23/2025

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.46 | | 02/10/2025 | 1717 |

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

Comments:

EPA SAMPLE NO.

YE8E2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51955 MA No. : SDG No.: YE8C9

Matrix: SOIL Lab Sample ID: Q1159-06

% Solids: 93.1 Date Received: 01/23/2025

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.024 | J | 02/10/2025 | 1720 |

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

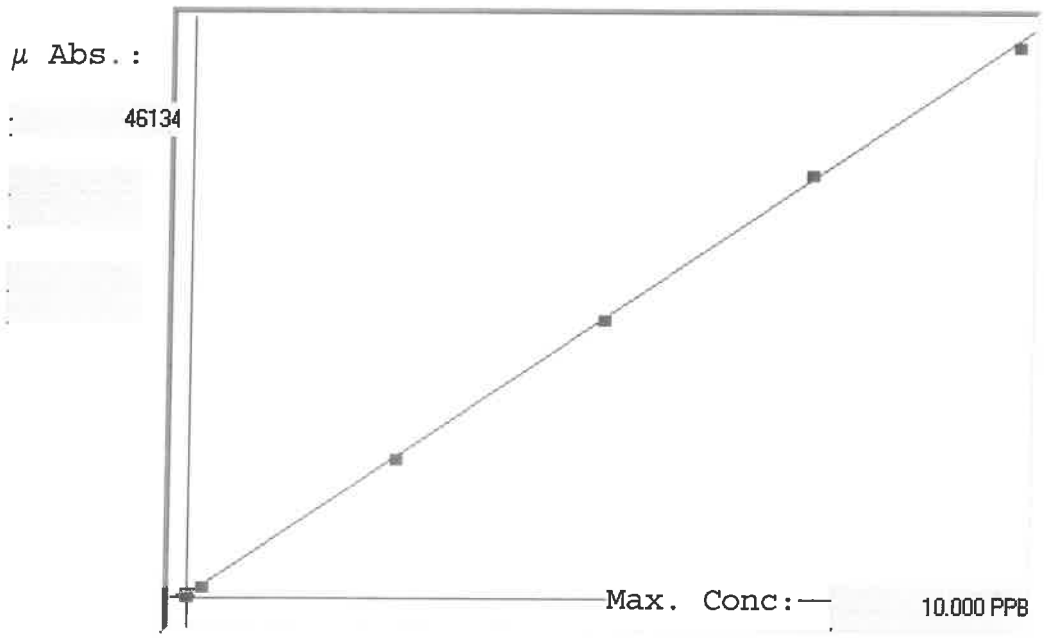
Comments:

Reviewed By:kareem
On:2/11/2025 12:33:20 PM
Inst Id :CV1

LB134657

SFAM01.1 INSTRUMENT ID: CV1

Linear




A= 0.0000e+000

B= 2.1544e-004 slope

C= -3.6487e-002 y-intercept

Rho= 0.9998355

Accept= Accepted

| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | 0/cv |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.000 | 0.009 | 0.009 | 210 | 0.000 | 210 | | | | | = |
| 0.05 | 0.050 | | | | | | | | | | -13 |
| 0.20 | 0.200 | 0.174 | -0.026 | 975 | 0.0 % | 975 | | | | | -1 |
| 2.50 | 2.500 | 2.474 | -0.026 | 11655 | 0.0 % | 11655 | | | | | 0 |
| 5.00 | 5.000 | 5.015 | 0.015 | 23449 | 0.0 % | 23449 | | | | | 2 |
| 7.50 | 7.500 | 7.625 | 0.125 | 35564 | 0.0 % | 35564 | | | | | -1 |
| 10.0 | 10.000 | 9.903 | -0.097 | 46134 | 0.0 % | 46134 | | | | | |

Reviewed By:kareem
On:2/11/2025 12:33:20 PM
Inst Id :CV1

LB134657

INSTRUMENT ID : CV1

| Sample ID | Extended ID | µ Abs. | Conc. | Stnd Conc | Method | Units | Date | Type |
|---|---|---|---|---|---|---|---|---|
| 0 | S0 | 210 | - | 0 | SFAM01.1 | PPB | 2/10/2025 16:10 | Std |
| 0.2 | S01 | 975 | - | 0.2 | SFAM01.1 | PPB | 2/10/2025 16:12 | Std |
| 2.5 | S02 | 11655 | - | 2.5 | SFAM01.1 | PPB | 2/10/2025 16:14 | Std |
| 5 | S03 | 23449 | - | 5 | SFAM01.1 | PPB | 2/10/2025 16:17 | Std |
| 7.5 | S04 | 35564 | - | 7.5 | SFAM01.1 | PPB | 2/10/2025 16:19 | Std |
| 10 | S05 | 46134 | - | 10 | SFAM01.1 | PPB | 2/10/2025 16:24 | Std |
| ICV094 | ICV094 | 18103 | 3.8636 | - | SFAM01.1 | PPB | 2/10/2025 16:29 | SMPL |
| ICB094 | ICB094 | 69 | -0.0216 | - | SFAM01.1 | PPB | 2/10/2025 16:31 | SMPL |
| CCV051 | CCV051 | 23868 | 5.1056 | - | SFAM01.1 | PPB | 2/10/2025 16:34 | SMPL |
| CCB051 | CCB051 | 12 | -0.0339 | - | SFAM01.1 | PPB | 2/10/2025 16:36 | SMPL |
| PB166633BL | PBS633 | 65 | -0.0225 | - | SFAM01.1 | PPB | 2/10/2025 16:38 | SMPL |
| Q1151-01 | MC0AZ0 | 31536 | 6.7576 | - | SFAM01.1 | PPB | 2/10/2025 16:40 | SMPL |
| Q1151-02 | MC0AZ1 | 20941 | 4.475 | - | SFAM01.1 | PPB | 2/10/2025 16:43 | SMPL |
| Q1151-03 | MC0AZ2 | 12432 | 2.6418 | - | SFAM01.1 | PPB | 2/10/2025 16:45 | SMPL |
| Q1151-04 | MC0AZ3 | 2182 | 0.4336 | - | SFAM01.1 | PPB | 2/10/2025 16:47 | SMPL |
| Q1151-05 | MC0AZ4 | 88873 | 19.1102 | - | SFAM01.1 | PPB | 2/10/2025 16:50 | SMPL |
| Q1151-06 | MC0AZ5 | 9110 | 1.9262 | - | SFAM01.1 | PPB | 2/10/2025 16:52 | SMPL |
| Q1151-07 | MC0AZ6 | 2651 | 0.5346 | - | SFAM01.1 | PPB | 2/10/2025 16:54 | SMPL |
| Q1151-08 | MC0AZ7 | 3149 | 0.6419 | - | SFAM01.1 | PPB | 2/10/2025 16:57 | SMPL |
| Q1151-09 | MC0AZ7D | 2619 | 0.5277 | - | SFAM01.1 | PPB | 2/10/2025 16:59 | SMPL |
| Q1151-10 | MC0AZ7S | 13924 | 2.9633 | - | SFAM01.1 | PPB | 2/10/2025 17:01 | SMPL |
| Q1151-11 | MC0B00 | 50458 | 10.8341 | - | SFAM01.1 | PPB | 2/10/2025 17:04 | SMPL |
| Q1151-12 | MC0B01 | 3659 | 0.7518 | - | SFAM01.1 | PPB | 2/10/2025 17:06 | SMPL |
| Q1159-01 | YE8C9 | 3086 | 0.6284 | - | SFAM01.1 | PPB | 2/10/2025 17:08 | SMPL |
| Q1159-02 | YE8C9D | 3437 | 0.704 | - | SFAM01.1 | PPB | 2/10/2025 17:11 | SMPL |
| Q1159-03 | YE8C9S | 15327 | 3.2655 | - | SFAM01.1 | PPB | 2/10/2025 17:13 | SMPL |
| Q1159-04 | YE8D1 | 5829 | 1.2193 | - | SFAM01.1 | PPB | 2/10/2025 17:15 | SMPL |
| Q1159-05 | YE8D3 | 10147 | 2.1496 | - | SFAM01.1 | PPB | 2/10/2025 17:17 | SMPL |
| Q1159-06 | YE8E2 | 700 | 0.1143 | - | SFAM01.1 | PPB | 2/10/2025 17:20 | SMPL |
| CCV052 | CCV052 | 24452 | 5.2314 | - | SFAM01.1 | PPB | 2/10/2025 17:22 | SMPL |
| CCB052 | CCB052 | -53 | -0.0479 | - | SFAM01.1 | PPB | 2/10/2025 17:24 | SMPL |
| Q1151-05DLX5 | MC0AZ4 | 18099 | 3.8627 | - | SFAM01.1 | PPB | 2/10/2025 17:27 | SMPL |
| Q1151-11DLX2 | MC0B00 | 25850 | 5.5326 | - | SFAM01.1 | PPB | 2/10/2025 17:29 | SMPL |
| CCV053 | CCV053 | 23383 | 5.0011 | - | SFAM01.1 | PPB | 2/10/2025 17:31 | SMPL |
| CCB053 | CCB053 | -53 | -0.0479 | - | SFAM01.1 | PPB | 2/10/2025 17:33 | SMPL |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1159

**Test :** Mercury

**Prepbatch ID :** PB166633,

**Sequence ID/Qc Batch ID:** LB134657,

**Standard ID :**
MP83692,MP83694,MP84411,MP84424,MP84425,MP84426,MP84427,MP84428,MP84429,MP84430,MP84431,MP84432,MP84433,MP84434,MP84437,

**Chemical ID :**
M4371,M4916,M5062,M5532,M5882,M5884,M6121,M6126,W3112,

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

# Metals STANDARD PREPARATION LOG

| 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

| 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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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 68 | STANNOUS CHLORIDE SOLUTION | MP84411 | 02/10/2025 | 02/11/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sohil Jodhani 02/10/2025 |

**FROM** 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 871 | MERCURY INTERMEDIATE B 250PPB WORKING STD. | MP84424 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 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 |
|---|---|---|---|---|---|---|---|---|
| 1340 | Hg 0.00 PPB STD | MP84425 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**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 |
|---|---|---|---|---|---|---|---|---|
| 1341 | Hg 0.2 PPB STD | MP84426 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84424 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1342 | Hg 2.5 PPB STD | MP84427 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84424 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1343 | Hg 5.0 PPB STD | MP84428 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84424 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1344 | Hg 7.5 PPB STD | MP84429 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84424 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1345 | Hg 10.0 PPB STD | MP84430 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84424 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1346 | Hg ICV SOLUTION | MP84431 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1351 | ICB (Hg 0.00 PPB SOLUTION) | MP84432 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1358 | CCV (Hg 5.0 PPB SOLUTION) | MP84433 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84424 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1352 | CCB (Hg 0.00 PPB SOLUTION) | MP84434 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 887 | AQUA REGIA FOR HG ON 7471A | MP84437 | 02/10/2025 | 02/11/2025 | Mohan Bera | None | None | Sohil Jodhani 02/11/2025 |

**FROM** 150.00000ml of M6121 + 50.00000ml of M6126 = Final Quantity: 200.000 ml

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 # |
|---|---|---|---|---|---|---|
| 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-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 |

| 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 |

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 # |
|---|---|---|---|---|---|---|
| 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

1649

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.

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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

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.

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

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

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/4}$$

k = coverage factor = 2

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

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

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

$u_{ts}$ = transport stability standard uncertainty



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## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | Ag | | 0.000011 | M | Eu | < | 0.000201 | O | Na | | 0.000004 | M | Se | < | 0.015915 | O | Zn | < | 0.001510 |
| O | Al | | 0.000001 | O | Fe | | 0.000001 | M | Nb | < | 0.000201 | O | Si | | 0.000005 | M | Zr | < | 0.000201 |
| M | As | < | 0.000402 | M | Ga | < | 0.000201 | M | Nd | < | 0.000201 | M | Sm | < | 0.000201 | | | | |
| M | Au | < | 0.003631 | M | Gd | < | 0.000201 | M | Ni | < | 0.000402 | M | Sn | < | 0.001007 | | | | |
| M | B | < | 0.001208 | M | Ge | < | 0.000201 | M | Os | < | 0.000605 | M | Sr | < | 0.000201 | | | | |
| M | Ba | < | 0.000201 | M | Hf | < | 0.000201 | O | P | < | 0.032370 | M | Ta | < | 0.000201 | | | | |
| M | Be | < | 0.000201 | s | Hg | < | | M | Pb | < | 0.000201 | M | Tb | < | 0.000201 | | | | |
| M | Bi | < | 0.000201 | M | Ho | < | 0.000201 | M | Pd | < | 0.000403 | M | Te | < | 0.002216 | | | | |
| O | Ca | | 0.000007 | M | In | < | 0.000201 | M | Pr | < | 0.000201 | M | Th | < | 0.000201 | | | | |
| M | Cd | < | 0.000201 | M | Ir | < | 0.000201 | M | Pt | < | 0.000402 | M | Ti | < | 0.000402 | | | | |
| M | Ce | < | 0.000201 | O | K | | 0.000020 | M | Rb | < | 0.000201 | O | Tl | < | 0.016508 | | | | |
| M | Co | < | 0.000201 | M | La | < | 0.000201 | M | Re | < | 0.000201 | M | Tm | < | 0.000201 | | | | |
| O | Cr | < | 0.003021 | O | Li | < | 0.000107 | M | Rh | < | 0.000201 | M | U | < | 0.008058 | | | | |
| M | Cs | < | 0.001208 | M | Lu | < | 0.000201 | M | Ru | < | 0.000201 | M | V | < | 0.000201 | | | | |
| M | Cu | < | 0.000402 | O | Mg | | 0.000001 | O | S | < | 0.053950 | M | W | < | 0.000604 | | | | |
| M | Dy | < | 0.000201 | M | Mn | < | 0.000604 | M | Sb | < | 0.001208 | M | Y | < | 0.000201 | | | | |
| M | Er | < | 0.000201 | M | Mo | | 0.000009 | M | Sc | < | 0.000201 | M | Yb | < | 0.000201 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

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

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 200.59 +2 4 Hg(OH)(aq) 1+

**Chemical Compatibility -** Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

**Stability -** 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

**Hg Containing Samples (Preparation and Solution) -** Metal (soluble in HNO3 ); Oxide ( Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 202 amu | 9 ppt | n/a | 186W16O |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1 | |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1 | V |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL | 1 | Ta, Co, Th ,Rh , Fe, U |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

September 22, 2021

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

### 11.2 Lot Expiration Date

**- September 22, 2026**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37
MB

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

Safety Data Sheets Available Upon Request

### (A) *SAMPLE DESCRIPTION*

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

### (B) *BREAKAGE OR MISSING ITEMS*

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

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

### (C) *ANALYSIS OF SAMPLES*

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

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

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

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

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

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

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

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

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

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

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

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

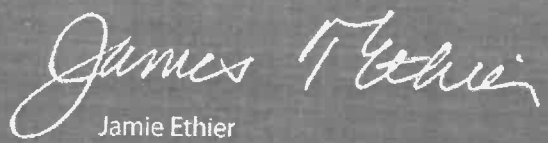
1658

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

1659

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

**Soil/Sludge Mercury Preparation Sheet**

PB166633

**SOP ID :** M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2

**SDG No :** MC0AZ0/YE8C9

**Matrix :** SOIL

**Pippete ID:** HG A

**Balance ID :** M SC-3

**Filter paper ID :** NA

**pH Strip ID :** NA

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#2 2. N/A

**Start Digest Date:** 02/10/2025 **Time :** 11:25 **Temp :** 95 °C

**End Digest Date:** 02/10/2025 **Time :** 11:55 **Temp :** 94 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** HG-DIG#2

**Dig Technician Signature:** MB

**Supervisor Signature:** IR

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 100mL | MP84431 |
| CCV | 100mL | MP84433 |
| Matrix Spike | 1.0mL | MP84424 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| AQUA REGIA | 5.0mL | MP84437 |
| KMnO4 (5%) | 15.0mL | MP83692 |
| 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 |
| N/A | N/A | N/A |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---|---|---|---|
| 0.0 ppb | S0 | 100mL | ~~MP844265~~ MP84425 MB 02/11/2025 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 100mL | MP84426 |
| 2.5 ppb | S2.5 | 100mL | MP84427 |
| 5.0 ppb | S5.0 | 100mL | MP84428 |
| 7.5 ppb | S7.5 | 100mL | MP84429 |
| 10.0 ppb | S10.0 | 100mL | MP84430 |
| ICV | ICV | 100mL | MP84431 |
| ICB | ICB | 100mL | MP84432 |
| CCV | CCV | 100mL | MP84433 |
| CCB | CCB | 100mL | MP84434 |
| CRI | CRI | N/A | N/A |
| CHK STD | CHK STD | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 2/10/25 @ 12:30 | MB - Dig. Lab | MB - Metal Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Soil/Sludge Mercury Preparation Sheet

**PB166633**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB166633BL | PBS633 | 0.50 | 100 | NA | N/A | 2-1 |
| Q1151-01 | MC0AZ0 | 0.51 | 100 | NA | N/A | 2 |
| Q1151-02 | MC0AZ1 | 0.50 | 100 | NA | N/A | 3 |
| Q1151-03 | MC0AZ2 | 0.59 | 100 | NA | N/A | 4 |
| Q1151-04 | MC0AZ3 | 0.54 | 100 | NA | N/A | 5 |
| Q1151-05 | MC0AZ4 | 0.59 | 100 | NA | N/A | 6 |
| Q1151-06 | MC0AZ5 | 0.58 | 100 | NA | N/A | 7 |
| Q1151-07 | MC0AZ6 | 0.56 | 100 | NA | N/A | 8 |
| Q1151-08 | MC0AZ7 | 0.52 | 100 | NA | N/A | 9 |
| Q1151-09 | MC0AZ7D | 0.50 | 100 | NA | N/A | 10 |
| Q1151-10 | MC0AZ7S | 0.55 | 100 | NA | MP84424 | 11 |
| Q1151-11 | MC0B00 | 0.51 | 100 | NA | N/A | 12 |
| Q1151-12 | MC0B01 | 0.50 | 100 | NA | N/A | 13 |
| Q1159-01 | YE8C9 | 0.50 | 100 | NA | N/A | 14 |
| Q1159-02 | YE8C9D | 0.53 | 100 | NA | N/A | 15 |
| Q1159-03 | YE8C9S | 0.53 | 100 | NA | MP84424 | 16 |
| Q1159-04 | YE8D1 | 0.53 | 100 | NA | N/A | 17 |
| Q1159-05 | YE8D3 | 0.51 | 100 | NA | N/A | 18 |
| Q1159-06 | YE8E2 | 0.51 | 100 | NA | N/A | 19 |

Alliance TECHNICAL GROUP

# Analytical Summary Report

**Analysis Method:** 9045D
**Analyst By :** jignesh
**Parameter:** pH
**Supervisor Review By :** Iwona
**Run Number:** LB134550
**Slope :** 98.4
**BalanceID:** WC SC-7
**pH Meter ID :** WC PH METER-1

| Calibration Standards | Chemtech Log# |
|---|---|
| PH 4 BUFFER SOLUTION | W3107 |
| BUFFER PH 7.00 GREEN 1PINT PK6 | W3093 |
| PH 10.01 BUFFER,COLOR CD 475ML | W3094 |
| buffer solution pH 7 yellow | W3071 |
| Buffer Solution, PH2 (500ml) | W3161 |
| Buffer Solution, PH12 (500ml) | W3072 |

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

True Value of CCV4 = 12.00 Control Limits[+/- 0.1].

| Seq | LabID | DF | Matrix | Weight (gm) | Volume (ml) | Temperature (°C) | Result (pH) | Anal Date | Anal Time |
|---|---|---|---|---|---|---|---|---|---|
| 1 | CAL1 | 1 | Water | NA | NA | 20.2 | 4.01 | 02/04/2025 | 08:20 |
| 2 | CAL2 | 1 | Water | NA | NA | 20.2 | 7.00 | 02/04/2025 | 08:21 |
| 3 | CAL3 | 1 | Water | NA | NA | 20.2 | 10.02 | 02/04/2025 | 08:22 |
| 4 | ICV | 1 | Water | NA | NA | 20.3 | 7.02 | 02/04/2025 | 08:25 |
| 5 | CCV1 | 1 | Water | NA | NA | 20.2 | 2.01 | 02/04/2025 | 08:30 |
| 6 | Q1135-01 | 1 | Solid | 20.02 | 20 | 21.9 | 5.98 | 02/04/2025 | 08:37 |
| 7 | Q1135-02 | 1 | Solid | 20.03 | 20 | 21.9 | 5.97 | 02/04/2025 | 08:40 |
| 8 | Q1135-05 | 1 | Solid | 20.02 | 20 | 21.7 | 6.13 | 02/04/2025 | 08:42 |
| 9 | Q1135-06 | 1 | Solid | 20.03 | 20 | 21.9 | 6.17 | 02/04/2025 | 08:47 |
| 10 | Q1135-07 | 1 | Solid | 20.03 | 20 | 21.0 | 7.78 | 02/04/2025 | 08:55 |
| 11 | Q1135-08 | 1 | Solid | 20.01 | 20 | 21.7 | 7.02 | 02/04/2025 | 09:00 |
| 12 | Q1135-10 | 1 | Solid | 20.02 | 20 | 21.5 | 6.83 | 02/04/2025 | 09:10 |
| 13 | Q1135-11 | 1 | Solid | 20.03 | 20 | 22.0 | 6.77 | 02/04/2025 | 09:18 |
| 14 | Q1135-12 | 1 | Solid | 20.05 | 20 | 21.5 | 6.68 | 02/04/2025 | 09:25 |
| 15 | Q1135-13 | 1 | Solid | 20.03 | 20 | 21.6 | 6.72 | 02/04/2025 | 09:33 |
| 16 | CCV2 | 1 | Water | NA | NA | 20.2 | 12.02 | 02/04/2025 | 09:37 |
| 17 | Q1135-14 | 1 | Solid | 20.02 | 20 | 21.3 | 6.71 | 02/04/2025 | 09:42 |
| 18 | Q1135-15 | 1 | Solid | 20.03 | 20 | 21.0 | 6.74 | 02/04/2025 | 09:50 |
| 19 | Q1135-16 | 1 | Solid | 20.04 | 20 | 21.4 | 7.49 | 02/04/2025 | 10:00 |
| 20 | Q1135-17 | 1 | Solid | 20.02 | 20 | 21.7 | 7.77 | 02/04/2025 | 10:10 |

| Seq | LabID | DF | Matrix | Weight (gm) | Volume (ml) | Temperature (°C) | Result (pH) | Anal Date | Anal Time |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Q1135-18 | 1 | Solid | 20.03 | 20 | 21.9 | 7.30 | 02/04/2025 | 10:18 |
| 22 | Q1135-19 | 1 | Solid | 20.01 | 20 | 22.1 | 7.26 | 02/04/2025 | 10:25 |
| 23 | Q1135-21 | 1 | Solid | 20.03 | 20 | 21.8 | 7.07 | 02/04/2025 | 10:33 |
| 24 | Q1135-22 | 1 | Solid | 20.03 | 20 | 21.9 | 8.74 | 02/04/2025 | 10:37 |
| 25 | Q1159-01 | 1 | Solid | 20.02 | 20 | 22.2 | 7.93 | 02/04/2025 | 10:44 |
| 26 | Q1159-04 | 1 | Solid | 20.03 | 20 | 21.8 | 7.64 | 02/04/2025 | 10:50 |
| 27 | CCV3 | 1 | Water | NA | NA | 20.2 | 2.01 | 02/04/2025 | 11:00 |
| 28 | Q1159-05 | 1 | Solid | 20.05 | 20 | 22.0 | 8.00 | 02/04/2025 | 11:11 |
| 29 | Q1159-06 | 1 | Solid | 20.03 | 20 | 21.6 | 7.99 | 02/04/2025 | 11:15 |
| 30 | CCV4 | 1 | Water | NA | NA | 20.2 | 12.02 | 02/04/2025 | 11:20 |

# WORKLIST(Hardcopy Internal Chain)

1/13 B4550

**WorkList Name :** ph q1135 **WorkList ID :** 187437 **Department :** Wet-Chemistry **Date :** 02-04-2025 08:02:00

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1135-01 | YE8F5 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/15/2025 | 9045D |
| Q1135-02 | YE8F7 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/15/2025 | 9045D |
| Q1135-05 | YE8F8 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/15/2025 | 9045D |
| Q1135-06 | YE8F9 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/15/2025 | 9045D |
| Q1135-07 | YE8H9 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/15/2025 | 9045D |
| Q1135-08 | YE8J0 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/16/2025 | 9045D |
| Q1135-10 | YE8J1 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/16/2025 | 9045D |
| Q1135-11 | YE8E3 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/16/2025 | 9045D |
| Q1135-12 | YE8E4 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-13 | YE8E5 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-14 | YE8E6 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-15 | YE8E7 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-16 | YE8E8 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-17 | YE8D2 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/17/2025 | 9045D |
| Q1135-18 | YE8D4 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/19/2025 | 9045D |
| Q1135-19 | YE8C3 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/18/2025 | 9045D |
| Q1135-21 | YE8D0 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/19/2025 | 9045D |
| Q1135-22 | YE8D5 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/18/2025 | 9045D |
| Q1159-01 | YE8C9 | Solid | pH | Cool 4 deg C | USEP01 | Q31 | 01/19/2025 | 9045D |
| Q1159-04 | YE8D1 | Solid | pH | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | 9045D |
| Q1159-05 | YE8D3 | Solid | pH | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | 9045D |

**Date/Time** 02/04/25 08:15

**Raw Sample Received by:** SB (WC)

**Raw Sample Relinquished by:** CR SM

**Date/Time** 02/04/25 12:00

**Raw Sample Received by:** CR SM

**Raw Sample Relinquished by:** SB (WC)



1969

# WORKLIST(Hardcopy Internal Chain)

VP134550

**WorkList Name :** ph q1135 **WorkList ID :** 187437 **Department :** Wet-Chemistry **Date :** 02-04-2025 08:02:00

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1159-06 | YE8E2 | Solid | pH | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | 9045D |

1664

**Date/Time** 02/04/25 08:15

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** CP SM



**Date/Time** 02/04/25 12:00

**Raw Sample Received by:** CP SM

**Raw Sample Relinquished by:** [illegible]

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 # LB134657

| | | | |
|---|---|---|---|
| Review By | Mohan Bera | Review On | 2/11/2025 12:26:35 PM |
| Supervise By | Kareem Khairalla | Supervise On | 2/11/2025 12:33:20 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84425,MP84426,MP84427,MP84428,MP84429,MP84430 |
| ICV Standard | MP84431 |
| CCV Standard | MP84433 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84432,MP84434,MP84411 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 02/10/25 16:10 | | Mohan | OK |
| 2 | S0.2 | S01 | CAL2 | 02/10/25 16:12 | | Mohan | OK |
| 3 | S2.5 | S02 | CAL3 | 02/10/25 16:14 | | Mohan | OK |
| 4 | S5 | S03 | CAL4 | 02/10/25 16:17 | | Mohan | OK |
| 5 | S7.5 | S04 | CAL5 | 02/10/25 16:19 | | Mohan | OK |
| 6 | S10 | S05 | CAL6 | 02/10/25 16:24 | | Mohan | OK |
| 7 | ICV094 | ICV094 | ICV | 02/10/25 16:29 | | Mohan | OK |
| 8 | ICB094 | ICB094 | ICB | 02/10/25 16:31 | | Mohan | OK |
| 9 | CCV051 | CCV051 | CCV | 02/10/25 16:34 | | Mohan | OK |
| 10 | CCB051 | CCB051 | CCB | 02/10/25 16:36 | | Mohan | OK |
| 11 | PB166633BL | PBS633 | MB | 02/10/25 16:38 | | Mohan | OK |
| 12 | Q1151-01 | MC0AZ0 | SAM | 02/10/25 16:40 | | Mohan | OK |
| 13 | Q1151-02 | MC0AZ1 | SAM | 02/10/25 16:43 | | Mohan | OK |
| 14 | Q1151-03 | MC0AZ2 | SAM | 02/10/25 16:45 | | Mohan | OK |
| 15 | Q1151-04 | MC0AZ3 | SAM | 02/10/25 16:47 | | Mohan | OK |
| 16 | Q1151-05 | MC0AZ4 | SAM | 02/10/25 16:50 | HG High | Mohan | Dilution |
| 17 | Q1151-06 | MC0AZ5 | SAM | 02/10/25 16:52 | | Mohan | OK |
| 18 | Q1151-07 | MC0AZ6 | SAM | 02/10/25 16:54 | | Mohan | OK |

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

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134657

| | | | |
|---|---|---|---|
| Review By | Mohan Bera | Review On | 2/11/2025 12:26:35 PM |
| Supervise By | Kareem Khairalla | Supervise On | 2/11/2025 12:33:20 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84425,MP84426,MP84427,MP84428,MP84429,MP84430 |
| ICV Standard | MP84431 |
| CCV Standard | MP84433 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP84432,MP84434,MP84411 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1151-08 | MC0AZ7 | SAM | 02/10/25 16:57 | | Mohan | OK |
| 20 | Q1151-09 | MC0AZ7D | DUP | 02/10/25 16:59 | | Mohan | OK |
| 21 | Q1151-10 | MC0AZ7S | MS | 02/10/25 17:01 | | Mohan | OK |
| 22 | Q1151-11 | MC0B00 | SAM | 02/10/25 17:04 | Hg High | Mohan | Dilution |
| 23 | Q1151-12 | MC0B01 | SAM | 02/10/25 17:06 | | Mohan | OK |
| 24 | Q1159-01 | YE8C9 | SAM | 02/10/25 17:08 | | Mohan | OK |
| 25 | Q1159-02 | YE8C9D | DUP | 02/10/25 17:11 | | Mohan | OK |
| 26 | Q1159-03 | YE8C9S | MS | 02/10/25 17:13 | | Mohan | OK |
| 27 | Q1159-04 | YE8D1 | SAM | 02/10/25 17:15 | | Mohan | OK |
| 28 | Q1159-05 | YE8D3 | SAM | 02/10/25 17:17 | | Mohan | OK |
| 29 | Q1159-06 | YE8E2 | SAM | 02/10/25 17:20 | | Mohan | OK |
| 30 | CCV052 | CCV052 | CCV | 02/10/25 17:22 | | Mohan | OK |
| 31 | CCB052 | CCB052 | CCB | 02/10/25 17:24 | | Mohan | OK |
| 32 | Q1151-05DL | MC0AZ4 | SAM | 02/10/25 17:27 | 5X For HG | Mohan | Confirms |
| 33 | Q1151-11DL | MC0B00 | SAM | 02/10/25 17:29 | 2X For HG | Mohan | Confirms |
| 34 | CCV053 | CCV053 | CCV | 02/10/25 17:31 | | Mohan | OK |
| 35 | CCB053 | CCB053 | CCB | 02/10/25 17:33 | | Mohan | OK |

ORIGIN ID:MHRA (786) 608-9500
ALLISON HUISA
EA ENGINEERING SCIENCE & TECH
555 UNIVERSITY AVE
SUITE 182
SACRAMENTO, CA 95825
UNITED STATES US

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CAD: 253267503/INET4535

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**ALLIANCE TECHNICAL GROUP LLC**
**284 SHEFFIELD STREET**
**MOUNTAINSIDE NJ 07092**
(908) 789-8900
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CAD: 253267503/INET4535

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

019

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Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Login Summary Report

| | | | | | |
|---|---|---|---|---|---|
| Order ID : | Q1159 | Order Date : | 1/23/2025 9:55:00 AM | Project Mgr : | Deepak |
| Client : | USEPA CLP SMO | Project : | 51955 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 1/23/2025 9:55:00 AM | EDD Type : | EPA CLP |
| Date Sign Off : | 1/24/2025 12:39:04 PM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|---|---|---|---|---|---|---|---|---|---|
| Q1159-01 | YE8C9 | Solid | 01/18/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP MS FULL | | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP12 | | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| | | | | pH | | 9045D | 15 | 02/13/2025 | 02/13/2025 |
| Q1159-02 | YE8C9D | Solid | 01/18/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP MS FULL | | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP12 | | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| Q1159-03 | YE8C9S | Solid | 01/18/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP MS FULL | | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP12 | | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| Q1159-04 | YE8D1 | Solid | 01/19/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP MS FULL | | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP12 | | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| | | | | pH | | 9045D | 15 | 02/13/2025 | 02/13/2025 |
| Q1159-05 | YE8D3 | Solid | 01/19/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP MS FULL | | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Metals CLP12 | | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| | | | | pH | | 9045D | 15 | 02/13/2025 | 02/13/2025 |
| Q1159-06 | YE8E2 | Solid | 01/19/2025 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 02/13/2025 | 02/13/2025 |

| | | | | | |
|---|---|---|---|---|---|
| Metals CLP MS FULL | SFAM_MS | 15 | 02/13/2025 | 02/13/2025 |
| Metals CLP12 | SFAM_AES | 15 | 02/13/2025 | 02/13/2025 |
| Percent Solids | Chemtech -SOP | 15 | 02/13/2025 | 02/13/2025 |
| pH | 9045D | 15 | 02/13/2025 | 02/13/2025 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB166301 **WorkList ID :** 187217 **Department :** Digestion **Date :** 01-28-2025 12:10:49

1674

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1159-01 | YE8C9 | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_AES |
| Q1159-02 | YE8C9D | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_AES |
| Q1159-03 | YE8C9S | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_AES |
| Q1159-04 | YE8D1 | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_AES |
| Q1159-05 | YE8D3 | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_AES |
| Q1159-06 | YE8E2 | Solid | Metals CLP12 | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_AES |

**Date/Time** 01/28/25 12:30
**Raw Sample Received by:** SLD. met. div
**Raw Sample Relinquished by:**



**Date/Time** 01/28/25 13:30
**Raw Sample Received by:**
**Raw Sample Relinquished by:** SLD. met. div

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB166302 **WorkList ID :** 187218 **Department :** Digestion **Date :** 01-28-2025 12:12:18

1675

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1159-01 | YE8C9 | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_MS |
| Q1159-02 | YE8C9D | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_MS |
| Q1159-03 | YE8C9S | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_MS |
| Q1159-04 | YE8D1 | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_MS |
| Q1159-05 | YE8D3 | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_MS |
| Q1159-06 | YE8E2 | Solid | Metals CLP MS FULL | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_MS |

**Date/Time** 01/28/25 12:35

**Raw Sample Received by:** Shipping met. dept

**Raw Sample Relinquished by:**



**Date/Time** 01/28/25 13:35

**Raw Sample Received by:**

**Raw Sample Relinquished by:** Shipping met. dept.

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q1151_HgS **WorkList ID :** 187575 **Department :** Digestion **Date :** 02-07-2025 12:34:51

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1151-01 | MC0AZ0 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-02 | MC0AZ1 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-03 | MC0AZ2 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-04 | MC0AZ3 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-05 | MC0AZ4 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-06 | MC0AZ5 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1159-01 | YE8C9 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1159-02 | YE8C9D | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_HG |
| Q1159-03 | YE8C9S | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_HG |
| Q1159-04 | YE8D1 | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/18/2025 | SFAM_HG |
| Q1159-05 | YE8D3 | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_HG |
| Q1159-06 | YE8E2 | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_HG |
| Q1151-07 | MC0AZ6 | Solid | Mercury | Cool 4 deg C | USEP01 | C33 | 01/19/2025 | SFAM_HG |
| Q1151-08 | MC0AZ7 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-09 | MC0AZ7D | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-10 | MC0AZ7S | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-11 | MC0B00 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |
| Q1151-12 | MC0B01 | Solid | Mercury | Cool 4 deg C | USEP01 | C61 | 01/20/2025 | SFAM_HG |

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**Date/Time** 2/10/25 @ 10:55

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]



**Date/Time** 2/10/25 @ 11:30

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]